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<sup>2</sup> Appendix A-8b, Onroad Mobile SO<sub>2</sub> Modeling Files 2014-2021, consists of modeling software files. They are very large files and are available separately from this document. Please see MDE’s Air Quality Planning page, <https://mde.maryland.gov/programs/Air/AirQualityPlanning/Pages/index.aspx>.

**State of Maryland, 1-Hour SO<sub>2</sub> NAAQS State Implementation Plan for the Anne Arundel County and Baltimore County, MD (“Wagner”) Nonattainment Area**

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<sup>1</sup> Appendix C-3, Air Dispersion Modeling Data, consists of modeling software files. They are very large files and are available separately from this document. Please see MDE’s Air Quality Planning page, <https://mde.maryland.gov/programs/Air/AirQualityPlanning/Pages/index.aspx>.





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# **APPENDIX A-1**

## **2014 Base Year SIP Emissions Inventory Methodologies**

Prepared By:

Maryland Department of the Environment



**Maryland Department of the Environment**  
**2014 Base Year Emissions Inventory Methodologies**

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# 1.0 INTRODUCTION

The 2014 Emissions Inventory and Methodologies is being prepared for the purpose of describing the Scope of Work required to prepare an emission inventory of sulfur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), ammonia (NH<sub>3</sub>), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and volatile organic compounds (VOC) emissions for the State of Maryland. The federal Clean Air Act (CAA), 42 U.S.C.A § 7401 et seq, as amended by the Clean Air Act Amendments of 1990, P.L. 101-549, (referred to hereafter as the Act) requires all areas of the nation to attain and maintain compliance with the federal ambient air quality standards. These federal standards are designed to protect the public health and welfare from these six criteria pollutants. These standards are referred to as the National Ambient Air Quality Standards (NAAQS). Areas that meet the NAAQS are referred to as “attainment areas”; those that do not are referred to as “nonattainment areas.” The document will provide an outline for content and organization review of the inventory. The goal is to provide guidance on the development of a reliable inventory, the quality of emissions data collected and provide for acceptable documentation and reporting of this information. The Maryland Department of the Environment Air and Radiation Administration (MDE-ARA), the Maryland Department of Transportation (MDOT), and the Metropolitan Washington Council of Government (MWCOCG) will be involved in preparing various portions of the inventory by contributing information that is necessary for developing emissions estimates.

The final inventory document will include emissions from point sources, quasi-point sources, mobile sources, biogenic emissions, non-road mobile sources, and area sources. MDE-ARA will use the MOVES NOROAD Model for small engine emissions. MDE-ARA will supply emissions for major point sources and area sources, and will accept EPA estimates for biogenic emissions. Mobile source emissions will be estimated using the MOVES Model.

The applications for emissions inventory data include use of the data in annual trends reports, State Implementation Plans (SIPs), compliance demonstrations, emissions trading, emissions fees programs, and in modeling activities designed to evaluate ambient air concentrations encountered by the general public. For the SIP program, the air emission inventory is a fundamental building block in developing an air quality control and maintenance strategy. Section 172, Part C, of the Clean Air Act (CAA) as amended in 1990, which addresses SIP requirements, states that “. . . plan provisions shall include a comprehensive, accurate, current inventory of actual emissions from all sources or the relevant pollutants or pollutants in such area . . .”. Regulatory agencies and industrial facilities rely on emission inventories on an ongoing basis as indicators of air quality changes and for setting permit requirements.

The end use of emission inventories requires that they be of the highest quality obtainable. They are the foundation of air quality decisions. Inventory quality is critical to defining realistic regulations and attainment strategies. Deficiencies and inconsistencies in existing compilation processes accentuate the need for developing and implementing more uniform and systematic approaches to collecting and reporting data. One of the primary goals of the document is to improve the quality of inventory data collection so that it is a reliable source of information for sound decision-making.

The intent of this report is to describe how the inventory was prepared and what information was considered in the inventory development.

This document is comprised of six sections, one section for each source category type.

## 2.0 POINT SOURCES

### 2.0 INTRODUCTION

The Maryland Department of the Environment Air and Radiation Administration (ARA) is the lead agency responsible for compiling the point source emissions inventory, including identification of sources, documenting the method used to calculate emissions from each source, and presenting the findings. In order to provide EPA with a written documentation of emissions calculations for major point sources, confidential information was included in the documentation. It is included with the understanding that EPA is also bound to respect the confidentiality of the information, including appropriate storage of the information. Any contractors employed by EPA to review the inventory are also subject to confidentiality provisions, or the EPA must remove the confidential material before submitting the document for review. This information does not appear in copies prepared public review.

The Maryland stationary point source inventory is the result of efforts to characterize air emissions sources since the early 1970's. This section describes data collection, verification and emission estimation methods used to estimate point source emissions from stationary sources. For the 2014 Periodic Emissions Inventory, point sources are defined as stationary commercial or industrial operations that emit more than 10 tons per year of volatile organic compounds (VOC); 100 tons per year of carbon monoxide (CO), sulfur oxides (SO<sub>x</sub>), particulate matter with an aerodynamic diameter less than 10 micrometers (PM<sub>10</sub>), and total suspended particulates (TSP); or 25 tons per year of oxides of nitrogen (NO<sub>x</sub>). In addition, stationary sources included in previous PEI submissions were included herein regardless of the amount of air pollutants emitted. These emissions criteria are more commonly referred to as “emissions thresholds” or simply, “thresholds.”

### 2.1 COMPILING THE POINT SOURCE LIST

Maryland has a substantial database of both small and large air emission sources compiled over the last eighteen years. Since the thirteen central counties of Maryland and Baltimore City have been nonattainment for ozone since before 1982 and 80% of the state's population and major industrial sources lie within these counties, the database of over 10,700 sources (both above and below the point source thresholds) is reasonably complete. The list of point sources in this inventory was developed by applying the appropriate thresholds to the emission levels in the database to differentiate between point and area stationary sources. Sources with emission levels greater than the threshold or sources previously included in PEI submittals are by definition point sources while sources with emissions levels less than the thresholds are by definition area sources.

Several methods of source identification are used by ARA to ensure the point source inventory is as complete as possible. The primary data source is the Permitting Program, which oversees the registration requirements found in Title 26, Subtitle 11, Chapter 02, Code of Maryland Regulations (COMAR). The Compliance Program identifies other point sources through annual facility inspections and through investigations conducted in response to citizen complaints.

The primary means of new source identification is the steady influx of permit applications and equipment registrations. Many sources are required by COMAR 26.11.02, Permits, Approvals and Registration, to register with ARA. From 700 to 1,000 new sources are registered with the Department each year. Most



of these sources are not considered to be point sources as defined for inventory purposes, even though they require permits. As an example, emissions from some sources can be less than one ton per year. However, all sources that are registered with the Department are tracked until the Department receives notification that the equipment or emission source has ceased operations. An emissions source or its equipment is not permanently deleted from the registration database until the installation is demolished.

The Department has established a Small Business Assistance Program as required by the Clean Air Act Amendments to acquaint the owners of potential sources with the State's permitting requirements, including air quality permits. The Department has also published a guidebook, Environmental Regulation: A Business Guide to the Maryland Department of the Environment's Permitting Process as part of its outreach program.

A secondary means of new source identification are the emission sources identified by Compliance Program staff during annual field inspections of major point sources. During these inspections, unregistered equipment is sometimes discovered. Statewide response to the Air Pollution Report and the Air Quality Complaint Hotline, has also led to the discovery of previously unidentified emissions sources. Sources discovered in this manner may be the result of the citizen complaints, or the result of further investigation of visual evidence such as buildings, storage yards, visible emissions, etc., sighted elsewhere during the response.

## **2.2 EMISSION CALCULATIONS**

The ARA technical staff uses one of the following methodologies to calculate criteria pollutant emissions:

- EPA-supplied emission factors
- EPA-supplied emission models
- Material balances
- Emissions based on source test data
- Agency or company-generated emission factors

The Compliance Program facility inspectors calculate annual emissions estimates following their annual facility inspections. The results are then entered into ARA's Registration Files for Facilities and Equipment, which lists facilities by premise numbers and equipment by registration numbers under each facility. Both the stack and fugitive emissions, from all registered equipment at a specific facility are summed to yield the annual facility emissions estimate. This total facility estimate is used to determine whether the facility satisfies the criteria for classification of as a point source.

The estimation of emissions on a facility-wide basis can result in emissions from equipment in some subcategories, such as boilers, being obscured. For example, boiler emissions are included in the Amerada Hess Corporation's total emissions. Therefore, these boiler emissions are included with emissions from gasoline storage and handling operations and included in the Storage, Transportation and Marketing of Petroleum Products and Volatile Organic Liquids source category rather than in External Combustion Sources category.

Emissions from specific subcategories of sources can be extracted from the inventory to estimate possible reductions from various control strategies. However, the emissions from specific equipment subcategories cannot be excluded from the facility-wide emissions because of the limitations of the

software used to create the Registration File. Therefore, subcategories of equipment emissions are not included in the inventory as separate line items for to do so would result in the double counting of those emissions.

The estimates prepared by the facility inspectors following the annual inspection of each facility are compared to the annual emissions reported by each facility in its Annual Emissions Certification. A person who owns or operates a major facility as defined in COMAR 26.11.01.05-1 must submit to the Department an emissions statement by April 1 of each year for the previous calendar year. The owner or operator of the facility must further certify that the emissions statement is accurate to the best of the owner/operator's best knowledge. After the certified emissions statements are logged in, they are thoroughly reviewed by the assigned facility inspectors. Each inspector compares their emissions estimate to that prepared by the respective company for consistency of methodology and final emissions estimate results. The facility inspectors resolve any discrepancies between the two estimates with the owner/operator of the facility in question. When all discrepancies are resolved to the satisfaction of MDE, the final emissions estimates are then submitted as an update to ARA's Registration File for Facilities and Equipment.

### **2.2.1 Seasonal Adjustments**

ARA has collected extensive data for the temporal allocation of emissions. Companies send us annual, quarterly, monthly, and daily usage, activity, and emission estimates. More specific information allows allocation of emissions to time of day.

In cases where the facilities did not provide peak ozone season emission estimates, the peak ozone season emissions were calculated by the following method and are included in the emissions summary tables, by county, at the end of this section:

- 1) Annual emissions in tons per year were converted into tons per day emissions by dividing annual emissions by operating days,
- 2) Tons per day emissions were then multiplied by a seasonality factor,
- 3) The seasonality factor was based on the quarterly percentage of operations estimated by the company adjusted for June, July, and August.
- 4) The ratio obtained in Step 3 was multiplied by the daily emissions calculated in Step 1 to generate the seasonally adjusted emissions.

### **2.2.2 Temporal Adjustments**

Temporal adjustments are made because of seasonal differences in the rate of emissions or activity, or to apportion emissions to a particular season, day or hour. The best method for temporal adjustment is the one that produces the most accurate activity or adjustment factors for a source category reflecting the inventory time period and locality.

ARA accounts for temporal adjustment calculations by using the following methods:

- Seasonal Adjustments Factory (SAF) was applied to the calculated annual emission estimates within a period.

$$\text{SAF} = \frac{\text{Emissions per year}}{(\text{Operating days/week}) (\text{Operating weeks/year})}$$

For example, if a VOC source category has one third more emissions during the 3-month ozone ratio: seasonal adjustment factor, the ratio of seasonal activity or emissions to average period emissions would equal  $\text{SAF} = 0.33/0.25 = 1.33$ .

- Heat Degree Days (HDD) or Average Temperature (**TEMP<sub>AVG</sub>**) Seasonal Adjustments Factory (SAF) was applied to the calculated annual emission estimates within a period.

$$\text{HDD SAF} = \frac{\text{Emissions per year}}{(\text{TEMP}_{\text{AVG}} \text{ period/month}) (\text{TEMP}_{\text{AVG}}/\text{year})}$$

For example, if a VOC source category has one third more emissions during the 3-month ozone ratio that is June, July and August: HDD seasonal adjustment factor, the ratio of seasonal activity emissions to average period emission  $\text{TEMP}_{\text{AVG}}$  HDD SAF =  $5339/15763 = 0.338701$ .

Nonroad:

For this source calculations were estimated using the NMIM model for nonroad emissions. The daily emissions function for the model was not working. Monthly emissions were generated and the summer months June, July, and August were averaged to give us an average summer day emission for each source represent in the model.

Ammonia Sources:

These source calculations were estimated using the Carnegie Mellon Ammonia (CMU) model for Nonpoint ammonia emissions. The sources represented in the model are constant all year and therefore the annual were divided by 365 to obtain average daily emissions.

### 2.2.3 Consolidated Emissions Reporting Rule (CERR)

MDE-ARA compiled a 2002 point source emission inventory in order to satisfy EPA reporting requirements under the Consolidated Emissions Reporting Rule. This will be the primary resource for developing refined estimates of PM<sub>2.5</sub> and NH<sub>3</sub> emissions.

## 3.0 QUASI - POINT SOURCES

### 3.0 INTRODUCTION

The Maryland Department of the Environment Air and Radiation has identified several facilities that due to size and/or function are considered point sources. These establishments contain a wide variety of air emission sources, including traditional point sources, on-road mobile sources, off-road mobile sources and area sources. For each particular establishment, the emissions from these sources are totaled under a single point source and summary documents include these “quasi-point” sources as point sources.

### 3.1 ABERDEEN PROVING GROUNDS

#### **Description**

Aberdeen Proving Ground (APG) occupies more than 72,500 acres in Harford County, Md. Its northernmost point is marked by the confluence of the Susquehanna River and the Chesapeake Bay. On the south the Gunpowder River borders it.

The installation comprises two principal areas, separated by the Bush River. The northern area is known as the Aberdeen Area, and the southern sector, formerly Edgewood Arsenal (established in November, 1917 - as a chemical weapons research, development and testing facility), is the Edgewood Area. The two areas were administratively combined in 1971.

Aberdeen Proving Ground is home to 66 tenants and a host of satellite activities. Among the major tenants are the U.S. Research, Development and Engineering (RDECOM), U.S. Army Ordnance Center and Schools, U.S. Army Developmental Test Command, U.S. Army Aberdeen Test Center, U.S. Army Center for Health Promotion and Preventive Medicine, Northeast Region Civilian Personnel Operations Center, U.S. Army Medical Research Institute of Chemical Defense, Program Manager for Chemical Demilitarization and major elements of the Army Research Laboratory.

As a center for Army materiel testing, laboratory research and military training, the post is a key element in the nation's defense. All tanks and wheeled vehicles which have served U.S. forces for the past 50 years have been tested for performance and durability at APG - from the M4 Sherman tank of World War II to the M1 tank and High Mobility Multipurpose Wheeled Vehicle and Family of Stryker Vehicles of today.

Known as the "Home of Ordnance," APG has been training Army ordnance personnel since 1918. The Army's ordnance training was consolidated at the proving ground during World War II, and today the U.S. Army Ordnance Center and School provides mechanical maintenance training for more than 20,000 U.S. and foreign personnel each year. APG is the regimental headquarters for the Army's Chief of Ordnance.

APG's Edgewood Area has been a center for chemical warfare research and development since it was established. From the trenches of France and Belgium in World War I to the desert battlefields of Iraq nearly 80 years later, the work done at APG has contributed to the defense and safety of American forces threatened by chemical weapons.

More than 7,500 civilians work at Aberdeen Proving Ground, and more than 5,000 military personnel are assigned there. In addition, there are nearly 3,000 contractors and private business employees working on the proving ground.

There are 2,148 military family members living on the post and another 155 off post. The post supports more than 16,000 military retirees and retiree family members. The post is Harford County's largest employer and one of the largest employers in the state of Maryland.

U.S. Army Garrison, Aberdeen Proving Ground, provides general, administrative and logistical support to the post's tenants and satellite activities, and is responsible for the management and operation of the entire installation, which in many ways is like a small city.

Environmental stewardship is an essential component of all activity at APG. The installation and its tenants are actively involved in a wide variety of environmental compliance, pollution prevention, conservation, and restoration programs. In FY 2004 APG spent a total of \$31 million on environmental programs, installation programs and installation restoration activities.

### **Pollutants**

VOC, NO<sub>x</sub>, CO, PM, SO<sub>2</sub>, Toxics

### **Emission Source Categories**

MDE staff reviewed emission estimates prepared for Aberdeen Proving Grounds by a private contractor. These emission estimates included data for the following source categories:

- Mobile On-Road Source Emissions
  - Mobile - LDGV Emissions
  - Mobile - LDGT 1&2 Emissions
  - Mobile - LDGT 3&4 Emissions
  - Mobile - HDGV
  - Mobile - LDDT 1-4
  - Mobile - HDDV
  - Mobile - HDDV Exhaust
  - Mobile – HDDB
  - Mobile - HD CNG Trucks
  - Mobile - LD CNG Trucks
- Mobile Nonroad Source Emissions
  - 2-Stroke Gas Eng; Lawn & Garden Equip; Other Equipment
  - 4-Stroke Gas Eng; Recreational Equip; Golf Carts
  - 4-Stroke Gas Eng; Recreational Equip; Specialty Vehicles/Carts
  - 4-Stroke Gas Eng; Construction & Mining Equip; Off-Highway Trucks
  - 4-Stroke Gas Eng; Industrial Equip; Forklifts
  - 4-Stroke Gas Eng; Lawn & Garden Equip; Chain Saws
  - 4-Stroke Gas Eng; Lawn & Garden Equip; Leaf blowers/Vacuums

- 4-Stroke Gas Eng; Lawn & Garden Equip; Rear Eng Riding Mowers
  - 4-Stroke Gas Eng; Lawn & Garden Equip; Front Mowers
  - 4-Stroke Gas Eng; Lawn & Garden Equip; Other Lawn & Garden Equip
  - 4-Stroke Gas Eng; Commercial Equip; Generator Sets
  - LPG Eng; Construction & Mining Equip; Off-Highway Trucks
  - Diesel Eng; Construction & Mining Equip; Rollers
  - Diesel Eng; Construction & Mining Equip; Cranes
  - Diesel Eng; Construction & Mining Equip; Graders
  - Diesel Eng; Construction & Mining Equip; Off-highway Trucks
  - Diesel Eng; Construction & Mining Equip; Tractors/Loaders/Backhoes
  - Diesel Eng; Construction & Mining Equip; Other Construction Equip
  - Diesel Eng; Industrial Equip; Forklifts
  - Diesel Eng; Industrial Equip; Sweepers/Scrubbers
  - Diesel Eng; Lawn & Garden Equip; Front Mowers
  - Diesel Eng; Agricultural Equip; Agricultural Tractors
  - Diesel Eng; Commercial Equip; Generator Sets
  - Recreational marine 4-stroke gasoline equipment
  - Recreational marine diesel compression ignition equipment
  - Aircraft
- Area Source Emissions
    - Emissions from aircraft refueling.
    - Construction Welding
    - Solvent-based architectural surface coatings.
    - Water-based architectural surface coatings.
    - Cold cleaning solvents.
    - Solvent Utilization - Miscellaneous
    - Commercial/consumer solvents.
    - Open Burning Detonation
    - Landfills - All Categories
    - Munitions Detonation
    - Firefighting Training
    - Industrial Process - Miscellaneous
    - Commercial/institutional distillate oil combustion.
    - Commercial/institutional natural gas combustion.
  - Point Source Emissions
    - MDE staff also reviewed and included emission estimates from emission certification reports prepared by Aberdeen Proving Grounds and submitted on an annual basis to MDE's Compliance and Enforcement Program. These emission estimates include major sources.

**Emission  
Estimation  
Methodologies**

Emission estimation methodologies varied by source category. A brief synopsis of the methodologies is presented below.

### ***Mobile On-Road Source Emissions***

Information on the privately owned vehicles for APG was estimated from a traffic study conducted for all gates at both Aberdeen and Edgewood.

Emissions for the on-road vehicles were calculated only for the estimated miles and hours of on-base vehicle operation. Miles traveled off the base were not included in the emission calculations. *AP-42, Volume 11, Fifth Edition* includes the emission factors for NO<sub>x</sub>, CO, and VOC, which were calculated using EPA's MOVES2014 model for gasoline and diesel operated vehicles. AP-42 has been updated with NO<sub>x</sub>, CO, and VOC emission factors from the latest version of EPA's MOVES2014 model, which also includes emission factors for PM-10, PM-25, SO<sub>2</sub>, and HAPS. Therefore, the emission factors for on-road vehicles were obtained by running the MOVES2014 model.

APG government-owned vehicles were grouped into vehicle categories according to vehicle type, gross vehicle weight (GVW), and fuel type. The CY 2014 mileage for each vehicle, came from a 2014 traffic study provided by the APG Department of Public or was an estimate of on-base mileage or a percentage of the total miles per vehicle that were driven on the base. If the mileage data was not available, it was estimated based on mileage for similar types of vehicles from other organizations or from estimates provided by organization personnel.

Emission estimates for privately owned vehicles (POVs) are based on traffic studies for CY 2000 and CY 2001. Each traffic study tracked incoming vehicles at all gates at both Aberdeen and Edgewood over a three-week period. The average number of vehicles counted at each gate over both years was used to estimate the number of POVs entering each day. The average values were 7,680 POVs per day at Aberdeen and 5,277 per day at Edgewood.

POV miles traveled were determined by using the distance from each gate to a central location at both Aberdeen and Edgewood. Each POV that entered a specific gate was assumed to drive that distance each day. The daily on-base mileage was determined by multiplying the number of POVs by the round-trip distance to a specific gate. The POV vehicles from the traffic study were conservatively estimated to be in the above-referenced vehicle categories.

Emissions of NO<sub>x</sub>, CO, VOC, PM-10, PM-2.5, and SO<sub>2</sub> from daily employee POVs were estimated by multiplying the annual on-base mileage of each vehicle category with the emission factors obtained from the MOVES2010b. Since the model years of POVs traveling on the base would vary greatly, it is impractical to estimate the emissions from each vehicle in that model year range. Instead the year 2000 was considered the average vehicle model year, and the emission factors for the 2000 model year vehicles were used. The emission factors were used in the following equation to estimate annual emissions:

$$E = V * F * C$$

Where:

E = Annual emissions of particular pollutant from each vehicle category (lb/yr)

V = Vehicle miles traveled on-base per year for each vehicle category (mi/yr)

F = Average model year emission factor in the applicable vehicle category (g/mi)  
C = Conversion factor (2.205 x 10 lb/g)

The information on the vehicles tested and miles driven on unpaved test tracks at APG was obtained from 2014 logs for each track. The test vehicles were divided equally into the HDDV and HDGV vehicle classes.

### ***Mobile Nonroad Mobile Source Emissions***

APG gathered information about the number of vehicles, model year, horsepower rating, fuel type, engine cycle type, and estimated operating hours for CY 2014. In the majority of instances, horsepower ratings and operating hours were not readily available and have been assumed based on the typical horsepower of similar types equipment.

Criteria pollutant emission factors were obtained from *Air Emissions Inventory Guidance Document for Mobile Sources at Air Force Installations, United States Air Force Institute for Environment, Safety & Occupational Health Risk Analysis (IERA), January 2002*, which includes the emission factors used in EPA's NON-ROAD 2002 model. Emission factors to estimate PM-2.5 from PM-10 emissions were obtained from EPA's NON-ROAD model. The Non-road model incorporates research results from *U.S. EPA 's Non-road Engine and Vehicle Emission Study (NEVES), November 1991*, as well as from the California Air Resources Board's off-road model, test results, and regulatory emission standards. These factors were used to estimate the emissions from non-road vehicles and equipment.

Emission factors for stationary internal combustion engines were used to estimate criteria pollutant emissions for the non-mobile equipment. These factors are found in *Table 3.3-1, AP-42 Section 3.3, Gasoline and Diesel Industrial Engines*. Emissions were calculated by multiplying the power output by the emission factors applicable to the type of fuel used by the non-mobile equipment, either gasoline or diesel. The power output was calculated by multiplying the power of the equipment in horsepower times the estimated hours of operation. Net workdays were derived from the equipment rental records. It was assumed that the light towers were used 8 hours per day and that all other equipment was used 10 hours per day. Emission factors were updated as Nonroad model updates were posted by the EPA.

The total emissions for all non-road vehicles and equipment were separated into emissions for Aberdeen and Edgewood. In cases where vehicles were used at both Aberdeen and Edgewood the total emissions were divided equally.

Aircraft operations are conducted at Phillips Airfield at Aberdeen and Weide Heliport at Edgewood. These operations include landings and takeoffs (LTOs), touch and go's (T&Gs), low approaches (LAs), and trim and power checks (T&Ps). Emissions from aircraft operations were estimated using the EDMS (version 5.1) model.

Emissions of criteria pollutants for watercraft were calculated using factors provided in *AP-42, Volume 11*. Inboard emissions were calculated based on fuel consumption or operating time. Outboard emissions were calculated using factors related to fuel consumption. Fuel consumption



was rarely known, so a generic fuel usage of 3 gallons per hour was used to calculate consumption from operating time.

The inventory of watercraft includes APG vessels, privately owned boats, and rental boats. The inventory included the size of vessels, whether the boat has an inboard or outboard motor, whether the boat uses gasoline or diesel, on-site fuel usage, and on-site estimated usage.

Many assumptions were necessary to calculate emissions from the limited information known about many of the watercraft. The number of memberships to the private boat clubs located at APG and number of permits to launch boats at APG was known, but no information as to the size and type of boats was, nor the time or distance they traveled within the boundaries of APG. All privately owned boats launched in the Aberdeen Area were considered outside of the APG boundary once in the water, so no emissions were counted from these boats. For privately owned watercraft it was assumed that 80% have outboard motors and 20% have inboard and that all are gasoline fueled. An assumption was made that privately owned watercraft were used 5 times per year and spent 2 hours on site each usage for a total of 10 hours each. For rental outboards it was assumed that they were used 3 hours on-site per rental weekend and that there were 40 rentals in 2002.

#### ***Area Source Emissions***

Emissions from the various area source categories were estimated using a variety of methods, including population based, fuel consumption, and mass balance. Emission factors were derived from the EPA document titled 'Emission Inventory Improvement Program', and AP-42. Landfill losses as VOC were calculated for Michaelsville landfill using *Landfill Gas Emissions Model (LandGEM) version 3.02* available through the EPA. LandGEM is based on a first-order decomposition rate equation for quantifying emissions from the decomposition of waste in municipal solid waste landfills.

#### ***Activity***

An activity level of 7 days a week with no seasonal adjustment factor was used.

#### ***Emission Factors***

Emission factors were derived from the Emission Inventory Improvement Program (EIIP); AP-42, Volume 11, Fifth Edition; EPA's NMIM model; EPA's MOVES2010b model; and the Landfill Gas Emissions Model (LandGEM).

#### **Point Source Adjustments**

Collecting all emissions estimates under one facility effectively creates a single point source for all of the emissions. No other point sources were subtracted from the area source inventory to avoid double counting.

#### **Adjustment for Controls**

Controls were applied when applicable to a particular source category.

**Spatial and  
Temporal  
Allocations**

*Spatial*

Spatial allocation of the emission estimates to specific areas within APG is not available.

*Temporal*

Since this activity is year round annual emissions were divided by 365 to estimate daily emissions.

### **3.2 BALTIMORE-WASHINGTON INTERNATIONAL AIRPORT (BWI)**

#### **Description**

Baltimore-Washington International Airport (BWI) is located in Anne Arundel County, Maryland, approximately 9 miles south of the City of Baltimore and approximately 30 miles northeast of Washington, D.C. BWI Airport is generally bounded on the north, east, and west by Aviation Boulevard (MD Route 170 and MD Route 162) and on the south by Dorsey Road (MD Route 176). Interstate 195 (I-195) is a four-lane divided highway that serves as the primary access point to the airport terminal area. Elm Road and Aviation Boulevard provide secondary access to the terminal and cargo facilities.

BWI is operated by the Maryland Aviation Administration, Maryland Department of Transportation. BWI Airport encompasses 3,596 acres of land. The passenger terminal contains 1.4 million square feet; 4 concourses (3 domestic, 1 international/swing); 69 jet gates with 12 gates dedicated to commuter aircraft.

The emission sources at BWI include aircraft, aircraft ground support service equipment, motor vehicles (on roadways, in parking facilities, and at terminal curbsides), the heating plant, fuel storage and handling, and training fires.

#### **Pollutants**

VOC, NO<sub>x</sub>, CO, PM, SO<sub>2</sub>, Toxics

#### **Emission Source Categories**

MDE staff reviewed emission estimates prepared for BWI Airport by a private contractor. These emission estimates included data for the following source categories:

- Mobile Onroad Source Emissions
  - Mobile - LDGV Emissions
  - Mobile - Parking Facility Emissions
  - Mobile - LDGT 1&2 Emissions
  - Mobile - LDDT 1-4
  - Mobile – HDDV
- Mobile Nonroad Source Emissions
  - Emissions from airport service diesel compression ignition equipment
  - Emissions from military aircraft LTOs
  - Emissions from commercial aircraft LTOs
  - Emissions from general aviation aircraft LTOs
  - Emissions from aircraft auxiliary power units

- Mobile Nonroad Source Construction Equipment Emissions
  - 2-Stroke Gas Eng; Construction & Mining Equip; Paving Equip
  - 4-Stroke Gas Eng; Construction & Mining Equip; Plate Compactors
  - 4-Stroke Gas Eng; Construction & Mining Equip; Concrete/Industrial Saws
  - Diesel Eng; Construction & Mining Equip; Pavers
  - Diesel Eng; Construction & Mining Equip; Rollers
  - Diesel Eng; Construction & Mining Equip; Scrapers
  - Diesel Eng; Construction & Mining Equip; Signal Boards/Light Plants
  - Diesel Eng; Construction & Mining Equip; Trenchers
  - Diesel Eng; Construction & Mining Equip; Excavators
  - Diesel Eng; Construction & Mining Equip; Cranes
  - Diesel Eng; Construction & Mining Equip; Graders
  - Diesel Eng; Construction & Mining Equip; Off-highway Trucks
  - Diesel Eng; Construction & Mining Equip; Rubber Tire Loaders
  - Diesel Eng; Construction & Mining Equip; Tractors/Loaders/Backhoes
  - Diesel Eng; Construction & Mining Equip; Crawler Tractor/Dozers
  - Diesel Eng; Industrial Equip; Aerial Lifts
  - Diesel Eng; Industrial Equip; Forklifts
  - Diesel Eng; Industrial Equip; Sweepers/Scrubbers
  - Diesel Eng; Commercial Equip; Generator Sets
  - Diesel Eng; Commercial Equip; Air Compressors
  - Diesel Eng; Commercial Equip; Welders
- Mobile Onroad Source Emissions
  - Firefighting Training
- Point Source Emissions
  - MDE staff also reviewed and included emission estimates from emission certification reports prepared by BWI and submitted on an annual basis to MDE's Compliance and Enforcement Program. These emission estimates include major sources.

## **Emission Estimation Methodologies**

Emission estimation methodologies varied by source category. A brief synopsis of the methodologies is presented below.

### ***Emissions and Dispersion Modeling System (EDMS) Version 5.1***

- **Aircraft**

FAA's EDMS computer program contains a database of aircraft engine emission factors based on engine make and model and four engine operation modes (taxi/idle, takeoff,

climb out, and approach). EDMS also contains a database of emission factors for an aircraft's auxiliary power units (APUs). Time-in-mode data is also used as an input into the emission inventory. EDMS time-in-mode data include the time that aircraft spend in each of the four operating modes.

- **Ground Support Equipment**

FAA's EDMS computer program contains a database of the ground support equipment (GSE) used to service specific types of aircraft. Also included in the database are the emission factors for each piece of GSE, as well as the time that each piece of equipment spends servicing the aircraft.

- **Roadways**

FAA's EDMS computer program uses EPA's MOVES2010b model to estimate on-road mobile vehicle emissions.

- **Parking Facilities**

FAA's EDMS computer program uses EPA's MOVES2010b model to estimate on-road mobile vehicle emissions from parking facilities.

- **Training Fires**

FAA's EDMS computer program contains a database of emission factors for five fuel types (JP-4, JP-5, JP-8, Tekflame and Propane). Training fire emissions are estimated by choosing the fuel type and specifying the amount of fuel consumed in the training exercise.

### *Nonroad Mobile Source Emissions*

- **Construction Equipment**

Emissions from construction activities were estimated based on the construction activity schedule, including the number and types of construction vehicles and equipment units and their utilization rates. Emission rates were taken from EPA's NONROAD2008a program, AP-42 guidance, and MOVES2010b. Emissions from several components of construction activities were calculated, specifically: onsite construction equipment (backhoes, bull dozers, graders, etc.), haul vehicles idling onsite (cement trucks, dump trucks, etc.), and haul vehicles and construction worker vehicles accessing the site. An industry-wide, representative mix of the number and types of construction equipment, average power rating (horse power), and equipment load factors was used in the analysis. Construction-related motor vehicles (dump trucks, pick-up trucks, etc.) were assumed to travel a round trip on-site distance of 5 miles while on the Airport construction site.

### *Activity*

An activity level of 7 days a week with no seasonal adjustment factor was used.

### *Emission Factors*

Emission factors were derived from FAA's EDMS computer program (Version 5.1.3). Vehicular emission factors contained in EDMS are obtained from the EPA's MOVES2010b model. Construction emission factors were derived from EPA's NONROAD2008a Model.

### **Point Source Adjustments**

Collecting all emissions estimates under one facility effectively creates a single point source for all of the emissions. No other point sources were subtracted from the area source inventory to avoid double counting.

### **Adjustment for Controls**

Controls were applied when applicable to a particular source category.

### **Spatial and Temporal Allocations**

#### *Spatial*

Spatial allocation of the emission estimates to specific areas within Baltimore Washington International Airport is not available.

#### *Temporal*

Since this activity is year round annual emissions were divided by 365 to estimate daily emissions.

### 3.3 PORT OF BALTIMORE

#### **Description**

The Maryland Port Administration (MPA) works hand and hand with the Port of Baltimore to help the marine terminal in there day to day operations. Maryland has seven main terminals and several tenant port terminals. The main terminals are:

**Dundalk Marine Terminal**  
**Seagirt Marine Terminal**  
**South Locust Point**  
**North Locust Point**  
**Masonville Marine Terminal**  
**Fairfield Marine Terminal**  
**Hawkins Point Marine Terminal**

**The following summary descriptions come from the MPA.**

#### **Dundalk Marine Terminal:**

With 13 berths, nine container cranes, and direct rail access, the 570-acre (230 ha) Dundalk Marine Terminal remains the largest and most versatile general cargo facility at the Port of Baltimore.

Dundalk handles containers, automobiles, farm equipment, construction and other Roll-on/Roll-off (Ro/Ro) equipment, wood pulp, steel, break-bulk, project cargo, and other various types of equipment.

Ports America operates a private container terminal within Dundalk. Baltimore's proximity to the Midwest's major farm and construction equipment manufacturers has helped the Port become the leading U.S. port for combines, tractors and hay balers, and in importing excavators and backhoes.

Reaffirming our position as the top U.S. Ro/Ro port, Baltimore recently signed a 20-year, 150-acre agreement to serve as the East Coast hub for the largest Ro/Ro carrier in the world, Wallenius Wilhelmsen, with service from Dundalk Marine Terminal.

#### **Seagirt Marine Terminal:**

Opened in 1990, Seagirt features the latest in cargo-handling equipment and systems. Seagirt is operated by Ports America Chesapeake under a 50-year public-private partnership signed in 2010 with the MPA. Under the agreement, Ports America is constructing a new 50-foot container berth to be accompanied by four state-of-the-art super Post Panamax cranes. At that point, the Port of Baltimore will be only the second East Coast port with both a 50-foot channel and a 50-foot berth, allowing it to accommodate some of the largest container ships in the world.

**South Locust Point:**

South Locust Point has Interstate 95 – which is direct access to the East Coast bypassing its entrance. In 1988, the MPA completed a major expansion of South Locust Point, doubling the size of the terminal to almost 80 acres. In 2005, MPA created a 300,000-foot paper shed and a 100,000-foot shed.

In 2006, the MPA proudly opened its new, dedicated 60,000-foot Cruise Ship terminal at the South Locust Point terminal. The structure used for the passenger terminal was formerly a paper-shed building situated on 14 acres of land with easy access from either side of I-95. There were 81 total cruises in 2009 and 92 total calls for 2010.

**North Locust Point:**

North Locust Point was used in the past to welcome immigrants, served as a cargo pier for the Baltimore & Ohio Railroad, and handled many different types of break-bulk, as well as liquid and drybulk cargoes.

Today, the 90-acre (36.1 ha) terminal has been redeveloped to enhance the Port's forest products capabilities. The addition of a 45-long-ton (45.7 mt) container crane, coupled with on-dock rail access, allows for the smooth loading and discharge of steel directly between vessel and rail car.

**Masonville Marine Terminal:**

Located near Maryland's I895 Masonville Terminal specializes in the import, export, and processing of automobiles. It covers 61 acres, with a trucks loading inside the terminal. It also has two piers (Pier 4 – 832 ft (253.6 m); Depth: 49 ft. (14.9 m), and CSX spur adjacent. Entire terminal leased to ATC Logistics.

**Fairfield Marine Terminal:**

Located also near Maryland's I895 Fairfield Marine Terminal specializes in the import, export, and processing of automobiles. It is over 104 acres load truck inside and outside fenced terminal. Fairfield has two piers; Pier 4 - 832 ft. (253.6 m) / Depth - 49 ft. (14.9 m), and an and CSX spur adjacent. Entire terminal leased to Daimler-Chrysler (Mercedes-Benz).

**Hawkins Point Marine Terminal:**

The **Maryland Port Administration** is trying to acquire 171 acres of land, Hawkins Point, which is the old Sparrows Point. The site contains a manufacturing operation that has been in existence since 1954. The Port Administration is looking for land in this area to use for a dredged material containment facility.

**Pollutants**

VOC, NO<sub>x</sub>, CO, PM, SO<sub>2</sub>, Toxics



**Emission  
Source  
Categories**

**Mobile Nonroad Source Emissions:**

1. Included in the Cargo Handling Equipment (CHE) category are:

- Ship to shore (STS) and other mobile cranes
- Rubber-tired gantry (RTG) cranes
- Forklifts
- Top loaders
- Side loaders
- Yard tractors
- Rubber-tired loaders
- Skid steer loaders
- Roll-on, roll-off (RoRo) equipment (e.g., self-propelled construction equipment, motorized farm equipment, and trailered items; e.g., watercraft)
- Vehicle cargo (automobiles, SUVs, and trucks that are driven off and onto ships)
- Auto processing (i.e., paint booths used for minor repairs)
- Maintenance, construction vehicles, and similar equipment
- Conveyor systems for dry bulk material
- Yard vehicles (unlicensed trucks and/or autos used for transportation purposes on port property only)
- Generators
- Employee traffic on site (includes cruise passenger vehicle traffic on site)

**Emissions  
Calculation**

Nonroad emissions were calculated using emission factors and load factors for non-road equipment developed by EPA and are available by their SCC code through the NMIM model).

2. Heavy Duty Diesel Vehicles (HDDVs): are the on-road semi-trailer trucks that pick up and deliver cargo to the terminals.

3. Rail locomotive: Switching engine operations

4. Marine Vessels Port: Port vessel emissions are calculated for each port as described in section 5.6 Marine Vessels. The ports within the Baltimore Nonattainment Area (BNAA) are used in this section and represent a quazi point as a whole. Hoteling, maneuvering, cruise, and slow cruise emissions are estimated for all non-ocean going activity and movement within the waterways surrounding the BNAA ports.

**Mobile Onroad Source Emissions:**

1. LDGV and LDDV - Vehicle cargo (Autos, SUVs, and Trucks) SCC: 2201001250 and 2230001250
2. LDGV and LDDV - Employees SCC: 2230001250 and 2201001250
3. LDGV, HDGV, LDDT, and LDGT - Yard vehicles SCC: 2270003070, 2201070250, 2230060250, 2201020250, and 2201001250.

**Emissions  
Calculation**

Mobile emissions were calculated use EPA's MOVES2014 Model.

**Spatial and  
Temporal  
Allocations*****Spatial***

Divided cruise emissions out to counties along travel route.

***Temporal***

Since this activity is year round annual emissions were divided by 365 to estimate daily emissions.

**Emissions  
Calculation**

On-road emissions were estimated for vehicles moving and idling. Emission factors from EPA's MOVES2014 Model were used to calculate emissions. Emission factors for on-road vehicles are represented in units of grams per mile (g/mi), while idling emission factors are expressed in grams per hour (g/hr). Distance or vehicle miles traveled (VMT) was used to calculate emissions for moving vehicles, and time, hours running, was used to estimate idling emissions.

## 4.0 AREAS SOURCES

### 4.1 EMISSION ESTIMATION METHOD BY CATEGORY

#### 4.1.1 PETROLEUM DISTRIBUTION LOSSES

Evaporative emissions occur at all points in the gasoline distribution process. These operations, generally inventoried as area sources, are gasoline dispensing outlets and gasoline tank trucks in transit. Bulk terminals and gasoline bulk plants, which are intermediate distribution points between refineries and outlets, have been inventoried as point sources. Most gasoline dispensing outlets emit less than 10 tons of VOC per year and therefore have been inventoried using area source methods.

VOC emissions from gasoline dispensing outlets result from vapor losses during tank truck unloading into underground storage tanks, vehicle fueling (boat fueling at marinas), and underground storage tank breathing. Evaporative losses from each activity in this source category have been tabulated separately so that various emission reduction control measures could be easily evaluated.

Emissions from vehicle fueling, including spillage during fueling, were calculated with the MOVES model and the methodology is described in Section 5.0 Mobile Sources. Tank truck unloading, underground tank breathing, tank trucks in transit and aircraft refueling were calculated using emissions factors from AP-42 and EIIP.

#### 4.1.1.1 Tank Truck Unloading

SCC: 25 01 060 053  
25 01 060 051

##### **Description:**

Emissions from tank truck unloading are affected by whether the service station tank is equipped for submerged, splash or balance filling. Therefore calculations were based on the filling method used and gallons sold.

##### **Pollutants**

VOC and HAPs

##### **Method and**

##### **Data Sources:**

The method used to calculate emissions (all VOC), is presented in EIIP<sup>1</sup>, Chapter 11, Gasoline Marketing, which extracts the emission factors from AP-42, Volume I, Table 5.2-7.

##### *Activity*

The Maryland Comptroller of the Treasury, Gasoline Tax Division (see Appendices) provided annual gallons of gasoline and diesel fuel sold. This data includes taxable and non-taxed gasoline purchased by the U.S. Government. State and local government sales are included in the taxable sales data. The statewide total of gallons of fuel sold was allocated to the county level proportional to the number of registered vehicles within the county. Vehicle registration data was collected from the Maryland Department of Transportation, Motor Vehicle Administration that supplied the data to MDE's Mobile Sources Control Program (see Appendices). Diesel fuel powered vehicle totals were subtracted from the Maryland and county registration numbers.

Percentages of submerged, balanced submerged and splash-fill tanks were determined with the assistance of MDE Waste Management. MDE staff reported no splash filling at Maryland service stations in 2014. All underground storage tanks within the nonattainment areas of the State of Maryland are required to use vapor-balance submerged filling methods. Waste Management's underground tank inspection program and regulations concerning underground storage tanks have eliminated splash-fill tanks in the state. A recent SSCD study determined that the rule effectiveness factor for vapor balance controls was 91%.

An activity level of 7 days per week was used, based on observations by MDE staff of unloading at Maryland retail gas stations. A rule effectiveness of 91% was determined from a study of Stage I compliance performed in Regions III and IV by the MDE/ARA enforcement program in 1991. In the attainment counties outside of Regions III and IV, a

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<sup>1</sup> Emission Inventory Improvement Program

default rule effectiveness of 80 % was used. This survey data was used to determine the penetration of each filling technology. The total fuel sales in the county were multiplied by the fraction using each filling technology. The AP-42 technology-specific emission factors were then used to estimate emissions from submerged filling and balanced submerged filling. The emissions from each filling technology were summed to estimate total emissions.

Filling Method	Non-Attainment Area	Transport Region	Attainment Area
Submerged	9%	9%	20%
Balanced Submerged	91%	91%	80%
Splash	0%	0%	0%

### *Emission Factors*

Emission factors are affected by true vapor pressure and temperature. Emissions from loading petroleum liquid can be estimated (with a probable error of ±30 percent) using the following expression<sup>2</sup>:

$$L_L = 12.46 * \frac{S * P * M}{T}$$

where:

- $L_L$  = loading loss, pounds per 1000 gallons (lb/10<sup>3</sup> gal) of liquid loaded  
(The loading loss is equivalent to an emission factor)
- $S$  = a saturation factor (see AP-42 Table 5.2-1)
- $P$  = true vapor pressure of liquid loaded, pounds per square inch absolute (psia)
- $M$  = molecular weight of vapors, pounds per pound-mole (lb/lb-mole)
- $T$  = temperature of bulk liquid loaded, °R (°F + 460)

Table 5.2-1 from AP-42 shows that the saturation factor (S) is a constant for a specific petroleum liquid, carrier and type of loading service

The true vapor pressure (P) can be estimated from the Reid vapor pressure using the following equation:

$$P = \exp \left\{ \left[ 0.7553 - \left( \frac{413.0}{T + 459.6} \right) \right] S^{0.5} * \log_{10}(RVP) - \left[ 1.854 - \left( \frac{1042}{T + 459.6} \right) \right] S^{0.5} + \left[ \left( \frac{2416}{T + 459.6} \right) - 2.013 \right] \log_{10}(RVP) - \left( \frac{8742}{T + 459.6} \right) + 15.64 \right\}$$

The molecular weight varies slightly with temperature and pressure, however for this analysis it is assumed to be constant.

Proportioning the loading factors yields

<sup>2</sup> AP42, Chapter 5.2: Transportation and Marketing of Petroleum Liquids

$$\frac{LL2}{LL1} = \frac{12.46 * S2 * P2 * M2 / T2}{12.46 * S1 * P1 * M1 / T1} = \frac{P2 * T1}{P1 * T2} \quad LL2 = LL1 * \frac{P2 * T1}{P1 * T2}$$

The loading factor or emission factor is directly proportional to true vapor pressure and inversely proportional to temperature in degrees Rankin.

LL1 = 0.3 at RVP of 10 and 60 F; this yields LL1 = 0.3; P = 5.186; T = 520 R

To calculate LL2 at RVP of 6.7 and 81.8 F or P = 5.094; T = 541.8 R

$$LL2 = LL1 * \frac{P2 * T1}{P1 * T2} = 0.3 * \frac{5.094 * 520}{5.186 * 541.8} = 0.2828$$

Initial emission factors of 0.3 lb VOC per 1000 gallons throughput for balanced submerged filling and 7.3 lb VOC per 1000 gallons throughput for submerged filling were used in all Maryland counties. These factors were then adjusted with county-specific monthly average temperature and true vapor pressure values using the above technique.

Filling Method	Base Emission Factor
	Lb. VOC per 1,000 gallon
Balanced Submerged	0.3
Submerged	7.3
Diesel Fuel Unloading	0.014

## Point Source Adjustments

Emissions from Andrews Air Force Base were subtracted from Prince Georges County emission totals and put in the Quazi Point.

## Adjustment for Controls

Controls for this source category are reflected in the emission factors.

## Spatial and Temporal Allocations

### *Spatial*

Spatial allocation source data was based on vehicle registration data that was provided through the Maryland Department of Transportation, Motor Vehicle Administration and source data supplied to MDE's Mobile Sources Control Program (see Appendices). Diesel fuel powered vehicle totals were subtracted from the Maryland and county registration numbers.

### ***Temporal***

Monthly temporal allocation activity data was provided through the Maryland Comptroller of the Treasury, Gasoline Tax Division (see Appendices) provided annual gallons of gasoline and diesel fuel sold. This data includes taxable and non-taxed gasoline purchased by the U.S. Government. State and local government sales are included in the taxable sales data. The statewide total of gallons of fuel sold was allocated to the county level proportional to the number of registered vehicles within the county. Also, a SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

### **Emissions Calculation**

The equation for estimating emissions from tank truck unloading is:

$$E_{ij} = \frac{(G_i \times F_{i(fm)} \times EF_{fm}) + (G_i \times F_{i(fm)} \times EF_{fm})}{2000} \quad \text{Where:}$$

$E_{ij}$  = Emissions of VOC in tons per day from tank truck unloading per county i

$G_i$  = Gallons of gasoline sold in county i during 2014

$F_{i(fm)}$  = Fraction of gasoline dispensed per county i per filling method (balanced submerged or submerged) during 2014

$EF_{fm}$  = Emission factor per filling method for tank truck unloading adjusted by RVP and temperature:  
(0.3 lb. VOC/1000 gallon throughput or 7.3 lb. VOC/1000 gallon throughput)

#### Tank Truck Unloading Sample Calculation (Howard County)

To calculate fuel usage for Howard County:

<b>Filling Method</b>	<b>Howard County Adjusted Emission Factor Lb. voc per 1,000 gallon</b>
Balanced Submerged	0.2695
Submerged	6.5581
Diesel Fuel Unloading	0.014

Total fuel sold in Maryland in 2014<sup>3</sup> = 2,763,987,450 gallons

Allocate gallons of fuel sold to the county level by the 2014 county vehicle registration proportion:

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<sup>3</sup> Annual sales of gasoline from Maryland Comptroller of the Treasury, Gasoline Tax Division (see Appendices)

$$\frac{\text{Howard County vehicle registration}^4}{\text{Total MD vehicle registration}} = \frac{251,783}{4,604,616} = 0.0547$$

$G = 2,763,987,450 \times 0.0547 = 151,136,393$  gallons sold in **Howard County**

$EM = (G * \text{Market \%} * EF \text{ adjusted} / 1000) / 2000$

EMbs = balanced submerged emissions

EMs = submerged emissions

$EMbs = (151,136,393 * 91\% * 0.2695 / 1000) / 2000 = \mathbf{18.53 \text{ tons VOC per year}}$

$EMs = (151,136,393 * 9\% * 6.5581 / 1000) / 2000 = \mathbf{44.60 \text{ tons VOC per year}}$

Tank Truck Unloading was found to have a

SAF = seasonal adjustment factor of 0.262525702

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted EMda =  $(EM / 365) * (SAF / POS)$

**EMbsda** =  $(18.53 / 365) * (0.262525702 / 0.25) = \mathbf{0.13 \text{ VOC tons/day}}$       balanced submerged

**EMsda** =  $(44.60 / 365) * (0.262525702 / 0.25) = \mathbf{0.05 \text{ VOC tons/day}}$       submerged

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<sup>4</sup> State of Maryland Motor Vehicle Administration and MDE Mobile Sources Control Program



#### 4.1.1.2 Stage II Refueling

SCC: 25 01 060 100

##### **Description**

Emissions from Stage II refueling are substantially less than those from Stage I because gasoline vapors that ordinarily might have escaped during vehicle fueling are re-circulated by a special nozzle back into the pump. The start year for Stage II refueling in all Maryland ozone nonattainment areas was 1993. Gasoline stations were required to have Stage II nozzles installed by November of that year. Calculations were based on the filling method used and gallons sold.

##### **Pollutants**

VOC

##### **Method and Data Sources**

EPA recommends that the MOVES model be used to generate refueling (Stage II) emission factors for highway vehicle emission inventories (EPA, 2003). The model, designed to support the evaluation of air pollution from gasoline- and diesel-fueled vehicles, generates emission factors for tailpipe emissions and refueling activities. If you are running MOVES in rates mode, you will need to use the results from both the rate per distance output table and the rate per vehicle output table. The rates for emissions processes 18 and 19 by source type in the rate per distance table should be multiplied by the local VMT by source type. In addition, the rates for emission processes 18 and 19 by source type in the rate per vehicle need to be multiplied by the local vehicle population by source type. The sum of these two values is the total refueling emissions.

##### ***Activity***

Input activity data such as VMT, vehicle registration, and gasoline sales are collected by MDE's Mobile section from the Maryland Department of Transportation and the Maryland State Comptroller's Office, Tax Motor Unit Division.

##### ***Emission Factors***

ARA mobile sources staff ran the MOVES2014 model to estimate the refueling emissions using the grams per mile (g/mile) methodology described above. The emission estimates were converted from grams to tons.

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

## **Adjustment for Controls**

Controls for this source category include Stage II Vapor Recovery Systems and Onboard Refueling Vapor Recovery (ORVR) systems. The controls are reflected in the emission estimates produced by the (MOVES2014) model.

## **Spatial and Temporal Allocations**

### *Spatial*

The MOVES2014 model spatially allocates input files specify state county-level gasoline sales data to spatially allocate emission estimates.

### *Temporal*

The MOVES2014 model allocates monthly activity data per state county-level and national level estimates.

## **Emissions Calculation**

A sample equation for estimating emissions from stage II refueling is:

$$E_{SII} = \frac{(G_i \times EF_{SII} \times MPG \times SAF)}{2000} \quad \text{Where:}$$

$E_{SII}$  = emissions of VOC in tons per day from stage II refueling

$G_i$  = gallons of gasoline sold in county i during 2014

$EF_{SII}$  = emission factor for stage II refueling from the MOVES2014 model (grams/mile)

MPG = average fuel economy (miles/gallon)

SAF = seasonal adjustment factor to reflect summer weekday emissions

### Stage II Refueling Sample Calculation

Since all calculations are included in the MOVES2014 model output, a sample calculation is not available for this source category.

#### 4.1.1.3 Underground Tank Breathing

SCC: 25 01 060 201

##### **Description:**

Underground tank breathing occurs when gasoline is drawn out of the tanks and into the pump lines. During this process air moves into the tank evaporating gasoline and emitting vapors.

##### **Pollutants**

VOC and HAPs

##### **Method and**

##### **Data Sources:**

The method used to calculate emissions (all VOC), is presented in EIIP<sup>5</sup>, Chapter 11, Gasoline Marketing, which extracts the emission factors from AP-42, Volume I, Table 5.2-7.

##### *Activity*

The Maryland Comptroller of the Treasury, Gasoline Tax Division (see Appendices) provided annual gallons of gasoline and diesel fuel sold. This data includes taxable and non-taxed gasoline purchased by the U.S. Government. State and local government sales are included in the taxable sales data. The statewide total of gallons of fuel sold was allocated to the county level proportional to the number of registered vehicles within the county. Vehicle registration data was collected from the Maryland Department of Transportation, Motor Vehicle Administration that supplied the data to MDE's Mobile Sources Control Program. Diesel fuel powered vehicle totals were subtracted from the Maryland and county registration numbers.

##### *Emission Factors*

An emission factor of 1.0 lbs. VOC per 1000 gallons throughput was used. The emission factor was taken from EIIP, Chapter 11, Gasoline Marketing, which extracts the emission factors from AP-42, Volume I, Table 5.2-7. Factors were adjusted with county-specific monthly average temperature and true vapor pressure values.

MDE used the same sources for gasoline sales and car registration as in tank truck unloading.

##### **Point Source**

##### **Adjustments**

No subtraction of emissions from point sources is necessary.

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<sup>5</sup> Emission Inventory Improvement Program

## **Adjustment for Controls**

Controls for this source category are reflected in the emission factors.

## **Spatial and Temporal Allocations**

### *Spatial*

Spatial allocation source data was based on vehicle registration data that was provided through the Maryland Department of Transportation, Motor Vehicle Administration and source data supplied to MDE's Mobile Sources Control Program. Diesel fuel powered vehicle totals were subtracted from the Maryland and county registration numbers.

### *Temporal*

Monthly temporal allocation activity data was provided through the Maryland Comptroller of the Treasury, Gasoline Tax Division provided annual gallons of gasoline and diesel fuel sold. This data includes taxable and non-taxed gasoline purchased by the U.S. Government. State and local government sales are included in the taxable sales data. The statewide total of gallons of fuel sold was allocated to the county level proportional to the number of registered vehicles within the county. Also, a SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## **Emissions Calculation**

The equation used to estimate emissions from underground tank breathing is:

$$E_{\text{utb}} = \frac{(G_i \times EF_{\text{utb}})}{2000} \quad \text{Where:}$$

$E_{\text{utb}}$  = emissions of VOC in tons per day from underground tank breathing and emptying

$G_i$  = gallons of gasoline sold in county i during 2014

$EF_{\text{utb}}$  = emission factor for underground tank breathing (1.0 lbs. VOC/1000 gallon throughput)

### Underground Tank Breathing Sample Calculation (Harford County)

To calculate fuel usage for Harford County:

Total fuel sold in Maryland in 2014<sup>6</sup> = **2,763,987** kgallons

Allocate gallons of fuel sold to the county level by the 2014 county vehicle registration proportion:

$$\frac{\text{Harford County vehicle registration}^7}{\text{Total MD vehicle registration}} = \frac{218,786}{4,604,616} = 0.0475$$

Gcarr = 2,763,987 x 0.0475 = **131,329** kgallons sold in **Harford County** in 2014.

EF<sub>utb</sub> = **0.9123** lbs. voc/1000 gallon

$$E_{utb} = \frac{(131,329 \times 1000 \times 0.9123 / 1000)}{2000}$$

**E<sub>utb</sub> = 59.90 tons voc per year**

Underground Tank Breathing was found to have a

SAF = seasonal adjustment factor of 0.262525702

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted **E<sub>utbda</sub>** = (E<sub>utb</sub> / 365)\*(SAF / POS)

**E<sub>utbda</sub> = (59.90 / 365)\*(0.262525702 / 0.25) = 0.17 VOC tons/day**

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<sup>6</sup> Annual sales of gasoline from Maryland Comptroller of the Treasury, Gasoline Tax Division

<sup>7</sup> State of Maryland Motor Vehicle Administration and MDE Mobile Sources Control Program (see Appendices).

#### 4.1.1.4 Gasoline Tank Trucks in Transit

SCC: 25 05 030 120

##### Description

Breathing losses from tank trucks during the transport of gasoline are caused by leaking delivery trucks, pressure in the tanks, and thermal effects on the vapor and on the liquid. A worst case situation arises if a poorly sealed tank has been loaded with gasoline and pure air becomes saturated. During the vaporization process, pressure increases and venting occurs. Emissions from this source category include the evaporation of petroleum vapor from:

- loaded tank trucks during transportation of gasoline from the bulk plant/terminal to the service station or other dispensing outlet, and
- from empty tank trucks returning from service stations to bulk plant/terminals

##### Pollutants

VOC

##### Method and

##### Data Sources

The method used to calculate emissions (all VOC), is presented in EIIP<sup>8</sup>, Chapter 11, Gasoline Marketing (Stage I & Stage II), and dated September 1997.

##### *Activity*

##### *Emission Factors*

EPA documents the emission factors in AP-42, Table 5.2-5 and EIIP states the emission factors within the above-referenced document in AP-42 Table 11.3-1. The AP-42 emission factors represent a typical range of values. EIIP averages the “typical range values” within AP-42 and arrives at average emission factor values of 0.055 and 0.005 lbs. voc per 1000-gallon gasoline, respectively for emissions from empty tank trucks and emissions from full tank trucks.

<b>Emission Source</b>	<b>EIIP Table 11-3.1 Lb/1000 gallon “Average”</b>	<b>AP-42 Table 5-2.5 Lb/1000 gallon “Typical Range”</b>
Gasoline Tank Trucks in Transit		
Empty Tank Trucks	<b>0.055</b>	<b>0 - 0.11</b>
Full Tank Trucks	<b>0.005</b>	<b>0 - 0.01</b>

---

<sup>8</sup> Emission Inventory Improvement Program

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

MDE used the same sources for gasoline sales and car registration as in tank truck unloading (see Appendices). MDE used the emission factors from EIIP, Volume I, and Table 5.2-5, of 0.06 pounds VOC per 1000 gallons throughput (combines 0.005 lb <sub>VOC</sub>/1000 gallon full tank truck delivery and 0.055 lb <sub>VOC</sub>/1000 gallon empty tank return). MDE also used a bulk facility throughput adjustment factor of 1.09 and calculated throughput by a ratio of county retail sales and state retail sales times state fuel sales.

Emission Factors:

Full tank truck delivery	0.005 lbs. <sub>VOC</sub> per 1000 gallons
<u>Empty tank truck return</u>	<u>0.055 lbs. <sub>VOC</sub> per 1000 gallons</u>
Combined (full & empty)	0.060 lbs. <sub>VOC</sub> per 1000 gallons

Bulk Facility Throughput Adjustment Factor: 1.09

Equation:

$$E_{tt} = \frac{(G_i \times 1.09 \times EF_{tt})}{2000} \quad \text{Where:}$$

$E_{tt}$  = emissions of VOC in tons per day from tank trucks in transit

$G_i$  = thousand gallons of fuel sold in county i

$EF_{tt}$  = Combined (full & empty) tank trucks in transit emission factor

### 2014 Gasoline Tank Trucks in Transit Sample Calculation (Harford County)

To calculate fuel usage for Harford County:

Total on-road and non-road fuel sold in Harford County = **131,329** kgallons

$G = 131,329$  kgallons sold in Harford County

$$E_{tt} = \frac{(131,329 \times 1.09 \times 0.06)}{2000}$$

$E_{tt} = 4.29$  tons VOC per year emitted from tank trucks in transit in **Harford County**.

Underground Tank Breathing was found to have a

SAF = seasonal adjustment factor of 0.262525702

POS = peak ozone period of 0.25

Days of the Period 312

Daily adjusted  $E_{tt\text{da}} = (E_{tt} / 312) * (\text{SAF} / \text{POS})$

$E_{tt\text{da}} = (4.29 / 312) * (0.262525702 / 0.25) = 0.014$  VOC tons/day



#### 4.1.1.5 Aviation Gasoline Distribution Stage 1 and Stage 2

SCC: 25 01 080 050  
25 01 080 100

##### **Description**

In Stage I aviation gasoline (also called “AvGas”) used in small reciprocating piston-engines is shipped to airports for use in civil aviation. AvGas is first placed into bulk terminals, and then into tanker trucks. These filling processes will cause the displacement of vapors into the atmosphere during the transfer of gasoline from tank trucks to storage tanks, and vice versa.

Stage II is the transfer of fuel from the tanker trucks into general aviation aircraft; during this process vapors are also displaced into the atmosphere.

##### **Pollutants**

VOC, Pb (Lead), and HAPs

##### **Point Source**

##### **Adjustments**

No subtraction of emissions from point sources is necessary.

##### **Adjustments for**

##### **Controls**

No adjustments for controls.

##### **Spatial and**

##### **Temporal**

##### **Allocations**

###### ***Spatial***

County-level AvGas fuel distributions reported through Energy Information Administration -EIA was spatial allocated for this sources.

###### ***Temporal***

Annual county-level emissions from PAD-level AvGas consumption from EIA, Petroleum Supply Annual 2014 reports were temporally allocated for this sources. SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

##### **Method and**

##### **Data Sources**

MDE staff used the methodology developed from the PECHAN/ERTAC Study, 2007, base on terminals using AvGas fuel activity assumptions data.

### ***Activity***

MDE used selected data from the Department of Energy's State Energy Data System obtain fuel consumption data. MDE used airport survey data and the Maryland Aviation Administration's 2014 Operations Count for Public-Use Airports to obtain operational counts. A few airports, such as Andrews Air Force Base, provided their own operations count.

Fuel Type	Fuel Consumption
	(1,000 Gallons)
Commercial Jet	82,362
Aviation Gasoline	1,470
Military Jet	823.62

### ***Emission Factors***

Emission factors for AvGas distribution from came from the (TRC Environmental Corporation's **Estimation of Alkylated Lead Emissions, Final Report**, which was prepared for the U.S Environmental Protection Agency, Office of Air Quality Planning and Standards. RTP, NC 1993.

The emissions factors are separated by emissions source such as

EF<sub>tf</sub> = Aviation Gasoline from Tank Fill

EF<sub>st</sub> = Aviation Gasoline from Storage Tank

EF<sub>c</sub> = Aviation Gasoline from Composite

EF<sub>bl</sub> = Aviation Gasoline from Breathing Losses

#### **Factors Not Used:**

EF<sub>v</sub> = Aviation Gasoline from Valves (There are NO AvGas Facilities/Tank Farms in MD)

EF<sub>p</sub> = Aviation Gasoline from Pumps (There are NO AvGas Facilities/Tank Farms in MD)

EF Type	VOC Emission Factors	Units
Tank Fill	0.009021383	LB/GALLON AvGas
Storage Tank	0.003605215	LB/GALLON AvGas
Composite	0.010306575	LB/GALLON AvGas
Breathing Losses	0.001694117	LB/GALLON AvGas
Valves Not Used	0.573201882	LB/VALVE*DAY
Pumps Not Used	5.952481079	LB/SEAL*DAY
EF <sub>sum</sub> (Sum of Factors Used)	0.024627290	LB/GALLON AvGas

Tanker to Truck Transfer Stage II 0.0136 LB/GALLON AvGas  
Emission Estimate Equation: County Level

$$EM = EF_{sum} \times \text{Fraction of LTOs} \times \text{Amount of Aviation Gasoline}$$

$$EM_i = EF_{sum} \times (CA_i / SA_i) \times F_i$$

Where:

$F_i$  = County aircraft fuel use

$CA_i$  = County aircraft activity (LTO)

$SA_i$  = State aircraft activity (LTO)

$EF_{sum_i}$  = **Sum of Factors Used**

$EM_i$  = specific county (i) emissions from aircraft refueling in tons VOC per year

#### 2014 Sample Calculation for Stage I AvGas Distribution (Harford County)

$$F_{\text{Allegany}} = 1,470,000 \text{ gallons}$$

$$\text{Fraction of LTOs} = \frac{CA_{\text{Allegany}}}{SA} = \frac{11,535}{403,554} = 0.0286$$

$$EF_{sum\_Allegany \text{ Stage I}} = 0.0246272899 \text{ lb/gal. AvGas}$$

$$EM_{\text{Allegany Stage I}} = (0.0246 \times 0.0286 \times 1,470,000)/2000 = \mathbf{0.517 \text{ tons voc / year}}$$

Stage I AvGas Distribution was found to have a

SAF = seasonal adjustment factor of 0.26

POS = peak ozone period of 0.25

Days of the Period 300

$$\text{Daily adjusted } EM_{\text{Allegany Stage I da}} = (EM_{\text{Allegany Stage I}} / 300) \times (SAF / POS)$$

$$EM_{\text{Allegany Stage I da}} = (0.517 / 300) \times (0.26 / 0.25) = \mathbf{1.79E-03 \text{ VOC tons/day}}$$

#### 2014 Sample Calculation for Stage II AvGas Distribution (Harford County)

$$F_{\text{Allegany}} = 1,470,000 \text{ gallons}$$

$$\text{Fraction of LTOs} = \frac{CA_{\text{Allegany}}}{SA} = \frac{11,535}{403,554} = 0.0286$$

$$EF_{sum\_Allegany \text{ Stage II}} = \mathbf{0.0136 \text{ lb/gal AvGas}}$$

$$EM_{\text{Allegany Stage II}} = (0.0136 \times 0.0286 \times 1,470,000)/2000 = \mathbf{0.286 \text{ tons voc /year}}$$

Stage I AvGas Distribution was found to have a

SAF = seasonal adjustment factor of 0.26

POS = peak ozone period of 0.25

Days of the Period 300

$$\text{Daily adjusted } EM_{\text{Allegany Stage II da}} = (EM_{\text{Allegany Stage II}} / 300) \times (SAF / POS)$$

EM<sub>Allegany Stage II</sub>da = (0.286 / 300)\*(0.26 / 0.25) = 9.904E-04 VOC tons/day

#### 4.1.1.6 Petroleum Vessel Unloading Losses

SCC:

2505020030	crude oil
2505020090	distillate oil
2505020120	Gasoline
2505020150	Jet naphtha
2505020060	residual oil
2505020180	kerosene

#### Description

Petroleum liquids are transported via ships and barges, and on-land transportation. The procedures discussed below relate to marine transport of petroleum liquids. This category does not include emissions from fuel consumed by vessels while in transit or in port. Evaporative VOC emissions from ocean going ships and barges carrying petroleum liquids result from loading losses, ballasting losses and transit losses. Petroleum liquids are classified into groups which are represented by crude oil, gasoline, jet naphtha, distillate oil/kerosene, or residual oil. Loading and ballasting losses do not occur with pipeline transport of petroleum products (AP-42, Section 5.2).

**Loading losses** occur as organic vapors in “empty” cargo tanks are displaced to the atmosphere by the liquid being loaded into the tanks. These vapors are a composite of vapors formed in three ways:

- Vapors which are formed in the “empty” tank by evaporation of residual product from previous loads;
- Vapors transferred to the tank from a vapor balance system that was used when the previous load was being unloaded; and
- Vapors generated in the tank as the new product is being loaded.

Loading losses are usually the largest source of evaporative emissions from petroleum vessels (EPA, 1996).

**Ballasting losses** are associated with the unloading of petroleum liquids at marine terminals and refinery loading docks. It is common practice to load several cargo tank compartments with sea water after the cargo has been unloaded. This water, called “ballast,” improves the stability of the empty tanker during the subsequent voyage. Ballasting emissions occur as vapor-laden air in the empty cargo tank is displaced to the atmosphere by ballast water being pumped into the tank.

**Transit losses** are similar to breathing losses associated with petroleum storage. Transit loss is the expulsion of vapor from a vessel compartment through vapor contraction and expansion, which are the result of changes in temperature and barometric pressure. This loss may be accompanied by slight changes in the level of the liquid in the tank due to liquid expansion or contraction due to the temperature change. Some ships are equipped with controls for these losses.

## Pollutants

VOC

## Method and Data Sources

### *Activity*

The method used to calculate emissions (all VOC) is presented in EIIP<sup>9</sup>, Chapter 12, Marine Vessel Loading, Ballasting and Transit, dated May 1998.

A significant part of the emissions from this source are from the Eastern Shore of Maryland because petroleum products are delivered to this area by barge rather than by pipeline as in the rest of the state. To compile emissions MDE used guidance in EIIP, Chapter 12, Marine Vessel Loading, Ballasting and Transit and emissions factors from EIIP Table 12.4-5, Waterborne Commerce of the United States, Waterways and Harbors Atlantic Coast, Part 1, 2014 data, and AP-42, Table 7.1-2 liquid densities. Waterborne Commerce supplied tonnage and type of petroleum products delivered to the various ports in Maryland for the year 2014. Tonnages of petroleum delivered were converted into Kgals (1000 gallons) and then used to calculate emissions.

### *Factors*

<b>UNCONTROLLED VOC EMISSION FACTORS FOR PETROLEUM CARRYING MARINE VESSELS (EPA, 1996)</b>				
<b>Petroleum Liquid</b>	<b>Ship/Ocean Vessel Loading (Lbs. voc per 1,000 gallons Transferred)</b>	<b>Barge Loading (Lbs. voc per 1,000 gallons Transferred)</b>	<b>Ballasting (Lbs. voc per 1,000 gallons Transferred)</b>	<b>Transit (Lbs. voc per 1,000 gallons Transferred)</b>
Crude Oil	0.61	1	1.1	1.3
Gasoline	1.8	3.4	0.8	2.7
Jet Naphtha / Other	0.5	1.2	NA	0.7
Distillate Oil / Kerosene	0.005	0.012	NA	0.005
Residual Oil	$4 \times 10^{-5}$	$9 \times 10^{-5}$	NA	$3 \times 10^{-5}$

<sup>9</sup> Emission Inventory Improvement Program

**Spatial and  
Temporal  
Allocations**

*Spatial*

Data for spatial allocation is not available for this source.

*Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

Data obtained from sources such as the *Waterborne Commerce of the United States* are typically provided in terms other than 1,000 gallons (Mgal) as is required in EIIP Equation 12.4-1 and must be converted. Equation 12.4-3 can be used to convert units from 1,000 ton (Mtons) to Mgal. Where:

$$PP_v = (PP_M / d) \times (2,000 \text{ lb/ton}) \times (\text{Mgal}/1,000 \text{ gallons}) \times (1,000 \text{ tons/Mtons})$$

$PP_v$  = Amount of petroleum liquid (Mgal)

$PP_M$  = Amount of petroleum liquid (Mtons)

$d$  = Density of petroleum liquid; see Table 7.1-2 in AP-42 (lb/gallon)

	Density <sup>10</sup> (lb/gal)
Distillate Oil	7.10
Residual Oil	7.90
Gasoline	5.60
Kerosene	7.00
Crude Oil	7.10
Jet Naphtha	6.40

If controls exist, then control efficiency can be calculated:

$$PP_c = PP_u \times (1 - CE/100)$$

Where:

$PP_c$  = Controlled emissions (tons)

$PP_u$  = Uncontrolled emissions (tons)

CE = Control efficiency (%)

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<sup>10</sup> AP-42, Table 7.1-2

Equation:

$$PV_P = \frac{[(SOEF_P \times PP_{S,P}) + (BREF_P \times PP_{B,P}) + (BLEF_{P,U} \times 0.20 \times PP_{BL,P}) + (TREF_P \times PP_{T,P})]}{2000}$$

Where:

- $PV_P$  : Total VOC emissions from petroleum vessel loading, ballasting, and transit for each of the petroleum liquids (p) transported: crude oil, gasoline, kerosene, distillate oil, and residual oil (tons)
- $SOEF_P$ : Ship/ocean vessel loading emission factor (pounds VOC per 1,000 gallons transferred)
- $PP_{S,P}$ : Amount of petroleum liquid (p) loaded into ships and ocean vessels in the inventory region (1,000 gallons)
- $BREF_P$ : Barge vessel loading emission factor (pounds VOC per 1,000 gallons transferred)
- $PP_{B,P}$ : Amount of petroleum liquid (p) loaded into barges in the inventory region (1,000 gallons)
- $BLEF_{P,U}$ : Ballasting emission factor (pounds VOC per 1,000 gallons water ballasted)
- $PP_{BL,P}$ : Amount of petroleum liquid (p) unloaded from vessels that are ballasted (1,000 gallons)
- $TREF_P$ : Vessel transit emission factor (pounds VOC per week per 1,000 gallons transferred)
- $PP_{T,P}$ : Amount of petroleum liquid (p) transported by marine vessels in the inventory region (1,000 gallons)

2014 Petroleum Vessel Unloading Losses Sample Calculation (Gasoline – Baltimore City)

<b>Gallons (in Thousands) of Petroleum Shipped in Baltimore Harbor</b>						
	<b>Crude Oil</b>	<b>Distillate Oil</b>	<b>Gasoline</b>	<b>Jet Naphtha</b>	<b>Residual Oil</b>	<b>Kerosene</b>
Baltimore City	<b>55,943</b>	<b>7,042</b>	<b>328,571</b>	<b>14,688</b>	<b>232,608</b>	<b>85,429</b>

Tonnage of distillate oil shipped in Baltimore Harbor (from Waterborne Commerce of the U.S., 2014) were converted in thousands of gallons (Kgals) and then used to calculate emissions.

Vessel Loading Emissions

For vessel loading operations, 90 percent of the total throughput was loaded at terminals with a control system of 95 percent efficiency. According to the local port authorities, transit time in the inventory area is two days (2/7 of a week). Emissions for each emission point are calculated

using Equation 12.4-1 and the emission factors from EIIP Table 12.4-5. In this example, emissions for each emission point are calculated separately and then totaled. Note that CE is applied to vessel loading emissions, and transit emissions are apportioned to two days per week by multiplying emissions by 2/7.

Baltimore City:

Vessel Loading gas = 0.00 Kgal

Barge Loading gas = 0.00 Kgal

Ballasting gas = 0.00 Kgal

**Transit gas = 328,571 Kgal**

Baltimore gas Total = (0.00 + 0.00 + 0.00 + 328,571) = 328,571 Kgal

**Vessel Loading** (gasoline) emissions are calculated:

$PV_{GAS} = [(1.8 \text{ lbs VOC/Kgal}) \times (0.00 \text{ Kgal/yr}) \times \{0.10 + [0.9 (1 - 95/100)]\}] \div 2,000 \text{ lb/ton}$

$PV_{GAS} = 0.00 \text{ tons/year}$

**Barge Loading** emissions are calculated:

$PV_{GAS} = [(3.4 \text{ lbs VOC/Kgal}) \times (0.00 \text{ Kgal/yr})] \div 2,000 \text{ lb/ton}$

$PV_{GAS} = 0.00 \text{ tons/year}$

**Ballasting** emissions are calculated:

$PV_{GAS} = [(0.8 \text{ lbs VOC/Kgal}) \times (0.00 \text{ Kgal/yr}) \times (0.20)] \div 2,000 \text{ lbs/ton}$

$PV_{GAS} = 0.00 \text{ tons/year}$

Note that the calculation for ballasting emissions in the equation includes a correction term of 0.20. This correction term reflects the practice of loading a ship or barge at some fraction of *capacity* when *ballasting*.

**Transit** emissions are calculated:

According to the Maryland Port Authorities transit time is 6 hours out of 24 or 25% during a week (7 days).

$PV_{GAS} = (2.7 \text{ lbs VOC/Kgal}) \times (328,571 \text{ Kgal/yr}) \times (0.25/7\text{wk}) \div 2,000 \text{ lbs/ton}$

$PV_{GAS} = 15.84 \text{ voc tons/year}$

EM<sub>BCitytotal</sub> **Vessel Loading** total VOC emissions are calculated as follows:

EM<sub>BCitytotal</sub> = 0.00 tons/year + 0.00 tons/year + 0.00 tons/year + 15.84 tons/year

EM<sub>BCitytotal</sub> = 15.84 tons/yr (gasoline)

Petroleum Vessel Unloading was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 312

Daily adjusted EM<sub>BCitytotalda</sub> = (EM<sub>BCitytotal</sub> / 312)\*(SAF / POS)

EM<sub>BCitytotalda</sub> = (15.84 / 312\*(0.25 / 0.25) = 5.08E-02 VOC tons/day



#### 4.1.1.7 Portable Fuel Containers

SCC: 25 01 011 012 (Residential – Permeation)  
25 01 011 012 (Residential – Diurnal)  
25 01 011 013 (Residential – Transport)  
25 01 012 011 (Commercial – Permeation)  
25 01 012 012 (Commercial – Diurnal)  
25 01 012 013 (Commercial – Transport)

#### Description

Portable fuel containers (PFCs) store and transport fuel from gasoline service stations to residential homes and businesses. Emissions from PFC use include:

- **Permeation Emissions**, which are produced after fuel has been stored long enough in a can for fuel molecules to infiltrate and saturate the can material.
- **Diurnal Emissions**, which result when stored fuel vapors escape to the outside of a gas can through any possible openings while the gas can is subjected to daily cycle of increasing and decreasing ambient temperatures. Diurnal emissions are dependent on the closed- or open-storage condition of a gas can.
- **Transport Emissions** arise when fuel escapes (e.g., spills, etc.) from gas cans that are in transit.

Both residential and commercial PFCs are included. The SCCs for PFCs are also new and are shown above.

#### Pollutants

VOC

#### Method Data Sources and

The method used to calculate emissions (all VOC), is adopted from a CARB<sup>11</sup> survey and methodology adopted by OTC<sup>12</sup>. Portable fuel container emissions are calculated by accounting for emissions from five different components related to gas container use: permeation, diurnal, transport-spillage, refueling spillage and refueling vapor displacement emissions. The permeation, diurnal emissions (associated with storage) and transport-spillage (associated with filling the can) emissions are included in the area source inventory. The equipment refueling spillage and refueling vapor displacement emissions are calculated from the non-road model and are included in the non-road inventory.

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<sup>11</sup> ARB's Mailout MSC 99-25, "Public Meeting to Consider Approval of CA's Portable Gasoline-Container Emissions Inventory," (ARB, 199b)

<sup>12</sup> Control Measure Development Support Analysis of Ozone Transport Commission Model Rules, E.H. Pechan & Associates, Inc. 5528-B Hempstead Way, Springfield, VA 22151, March 31, 2001.

Portable fuel container emissions are calculated by accounting for emissions from five different components related to gas container use: permeation, diurnal, transport-spillage, refueling spillage and refueling vapor displacement emissions. The permeation, diurnal emissions (associated with storage) and transport-spillage (associated with filling the can) emissions are included in the area source inventory. The equipment refueling spillage and refueling vapor displacement emissions are calculated from the non-road model and are included in the non-road inventory

### ***Activity***

The following input data is required to calculate emissions for this source category.

1. Rather than assuming that the numbers of PFCs per household and per business were consistent across the entire State, MDE used EPA's non-road emissions model (NONROAD2005) to estimate nonroad consumption of gasoline by county by source category classification (SCC) code. Each SCC code has a unique usage (commercial versus residential), a unique ratio of the percent of fuel dispensed from PFCs \* The previous draft version of this report (EPA420-D-06-003) was based on estimates from the draft NONROAD2004 model (versus from fuel pumps), and a unique spillage rate (grams per gallon).
2. Number of commercial businesses<sup>13</sup> 2002 expected to have at least one gas can by county, NAICS 11, 23, 31, 441, 447, 45299, 484, 488, 493, 53131, 5321, 532291, 5323, 5324, 54132, 54162, 54169, 56173, 71391, 71393, 7212, 811, and 81293.
3. MDE was able to estimate by county by (SCC) code the total quantity of gasoline supplied from PFCs.

### ***Emission Factors***

Separate emission factors were developed for permeation, diurnal, transport and spillage emissions for PFC (both for commercial and residential PFCs). These emission factors were derived from CARB's survey data (CARB, 1999).

### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

### **Adjustment for Controls**

Maryland's COMAR 26.11.13.07 rule regulates control adjustments of VOC emissions from portable fuel containers (PFC's) that requires performance standards for PFCs and/or spouts that will reduce emissions do to storage, transport, and refueling activities. (2014 control efficiency of 58% and a control factor of 77.18%). COMAR weblink:  
[http://www.dsd.state.md.us/comar/title\\_search/Title\\_List.aspx](http://www.dsd.state.md.us/comar/title_search/Title_List.aspx)

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<sup>13</sup> Total 2014 employment and business establishments by 6 digit NAICS code and by county, County Business Patterns

## Spatial and Temporal Allocations

### *Spatial*

For the residential PFC SCCs, emissions were allocated to the local area level based on a housing surrogate. Commercial PFC emissions were allocated to the local area level based on commercial and industrial business location.

### *Temporal*

Temporal allocation in part due to the number of days in a month with greater than or equal to 0.1 inch of precipitation, but > 0.01 inches a day as part of the emission estimations and seasonal adjustments.

## Emissions Calculation

The equation used to estimate emissions from portable fuel containers is:

Equation:

The residential-gas-can population is calculated as follows:

$$\text{Pop}_R = (N) * (A) * (\text{Count}_R) \quad (\text{Eq. 1})$$

where:

$\text{Pop}_R$	=	Statewide Residential-Gas-Can Population
$N$	=	Number of Occupied-Housing Units in OTC State
$A$	=	Percentage of Households with Gas Cans (46%)
$\text{Count}_R$	=	Average Number of Residential-Gas Cans per Household

Statewide residential-gas-can-permeation emissions are computed as follows:

$$\text{HC}_{PR} = \Sigma (\text{Pop}_R) * (S) * (\text{EF}_P) * (B_R) * (\text{Size}_R) * (\text{Level}) * \text{CF} \quad (\text{Eq. 2})$$

where:

$\text{HC}_{PR}$	=	Permeation Emissions in tons per day (tpd)
$\text{Pop}_R$	=	Statewide Residential-Gas-Can Population
$\text{EF}_P$	=	Appropriate Permeation-Emission Factor (g/gal-day)
$S$	=	Percentage of Gas Cans Stored with Fuel (70%)
$B_R$	=	Percentage of Cans Stored in Closed Condition with respect to Material (Plastic 53%; Metal 13%)
$\text{Size}_R$	=	Weighted Average Capacity of Residential-Gas Cans (2.34 gal.)
$\text{Level}$	=	Weighted Average Amount of Stored Fuel (49%)
$\text{CF}$	=	<b>0.002204623 lbs/g conversion factor</b>

Diurnal emissions from both open- and closed-system-residential-gas cans are calculated as follows:

$$HC_{DR} = (Pop_R) * (S) * (EF_D) * (B_R) * (Size_R) * (Level) \quad (Eq. 3)$$

where:

$HC_{DR}$	=	Diurnal Emissions (tpd) for Residential-Gas Cans with respect to Storage Condition (Open or Closed) and Material (Plastic or Metal)
$Pop_R$	=	Statewide Residential-Gas-Can Population
$S$	=	Percentage of Gas-Can Population Stored with Fuel (70%)
$EF_D$	=	Appropriate Diurnal-Emission Factor with respect to Storage Condition and Material (g/gal-day or g/day)
$B_R$	=	Percentage of Gas-Can Population with respect to Storage Condition and Material
$Size_R$	=	Weighted Average Capacity of Residential-Gas Cans (2.34 gal.)
$Level$	=	Weighted Average Amount of Stored Fuel (49%)
$CF$	=	907,184.5844 g/ton

Residential-transport-spillage emissions are determined as:

$$HC_{TR} = (Pop_R) * (S) * (Refill_R) * (EF_T) * (B_R) \quad (Eq. 4)$$

where:

$HC_{TR}$	=	Residential-Gas-Can-Transport-Spillage Emissions (tpd)
$Pop_R$	=	Statewide Residential-Gas-Can Population
$S$	=	Percentage of Gas Cans Stored with Fuel (70%)
$Refill_R$	=	Average Number of Residential-Gas-Cans-Pump-Refills per Day per Can (refill/day from survey)
$EF_T$	=	Transport-Emission Factor with respect to Storage Condition (g/refill)
$B_R$	=	Percentage of Gas Cans with respect to Storage Condition and Material
$CF$	=	<b>0.002204623 lbs/g conversion factor</b>

The commercial-gas-can population is calculated as follows:

$$Pop_C = (N_C) * (Count_C) \quad (Eq. 5)$$

where:

$Pop_C$	=	Statewide Commercial-Gas-Can Population
$N_C$	=	Number of Occupied Businesses in State
$Count_C$	=	Average Number of Gas Cans per Business

Statewide commercial-gas-can-permeation emissions are computed as follows:

$$HC_{PC} = \Sigma (Pop_C) * (S) * (EF_P) * (B_C) * (Size_C) * (Level) \quad (Eq. 6)$$

where:

$HC_{PC}$	=	Permeation Emissions (tpd)
$Pop_C$	=	Statewide Commercial-Gas-Can Population
$EF_P$	=	Appropriate Permeation-Emission Factor (g/gal-day)
$S$	=	Percentage of Gas Cans Stored with Fuel (70% for Residential Survey)
$B_C$	=	Percentage of Applicable Gas Cans Stored in Closed Condition
$Size_C$	=	Weighted Average Capacity of Commercial-Gas Cans (3.43 gal)
$Level$	=	Weighted Average Amount of Stored Fuel (49% from Residential Survey)
$CF$	=	<b>0.002204623 lbs/g conversion factor</b>

The amount of diurnal emissions from both open- and closed-system commercial-gas cans is calculated as follows:

$$HC_{DC} = (Pop_C) * (S) * (EF_D) * (B_C) * (Size_C) * (Level) \quad (Eq. 7)$$

where:

$HC_{DC}$	=	Diurnal Emissions (tpd) for Commercial-Gas Cans with respect to Storage Condition (Open or Closed) and Material (Plastic or Metal)
$Pop_C$	=	Statewide Commercial-Gas-Can Population
$EF_D$	=	Appropriate Diurnal-Emission Factor with respect to Storage Condition and Material (g/gal-day or g/day)
$S$	=	Percentage of Gas Cans Stored with Fuel (70% from Residential Survey)
$B_C$	=	Percentage of Gas Cans with respect to Storage Condition and Material
$Size_C$	=	Weighted Average Capacity of Commercial-Gas Cans (3.43 gal.)
$Level$	=	Weighted Average Amount of Stored Fuel (49% from Residential Survey)
$CF$	=	<b>0.002204623 lbs/g conversion factor</b>

The non-lawn-and-garden-equipment commercial-gas-can refills at the pump are derived as follows:

$$REFILL_C = \left[ \frac{(\sum Fuel)}{(SIZE_C) * (POP_{NON}) * (S)} \right] \quad (Eq. 8)$$

where:

$Refill_C$	=	Average Number of Non-Lawn-and-Garden Equipment Commercial-Gas-Cans Pump Refills per Day per Can (refill/day)
$Fuel$	=	Non-Lawn-and-Garden Equipment Fuel Consumption (gal/day) for 2000
$Size_C$	=	Weighted Average Capacity of Commercial-Gas Cans (3.43 gal/can-refill)

POP <sub>NON</sub>	=	Statewide Commercial-Gas-Can Population with respect to Non-Lawn-and-Garden Businesses
S	=	Percentage of Gas Cans Stored with Fuel (70% from Residential Survey)
CF	=	<b>0.002204623 lbs/g conversion factor</b>

The commercial-transport-spillage emissions are determined as:

$$HC_{TC} = (Pop_C) * (S) * (B_C) * (Refill_C) * (EF_{TC}) \quad (Eq. 9)$$

where:	HC <sub>TC</sub>	=	Commercial-Gas-Can-Transport-Spillage Emissions (tpd)
	Pop <sub>C</sub>	=	Statewide Commercial-Gas-Can Population
	S	=	Percentage of Gas Cans Stored with Fuel (70% from Residential Survey)
	B <sub>C</sub>	=	Percentage of Gas Cans with respect to Storage Condition and Material
	Refill <sub>C</sub>	=	Average Number of Gas-Cans Pump Refills per Day per Can
	EF <sub>TC</sub>	=	Transport-Spillage Emission Factor (g/refill) with respect to Storage Condition
	CF	=	<b>0.002204623 lbs/g conversion factor</b>

The total area source portable fuel container emissions are summed as follows:

$$EPFC - A = HC_{PR} + HC_{DR} + HC_{TR} + HC_{PC} + HC_{DC} + HC_{TC}$$

$$EPFC - SD = EPFC - A * SAF // AADF$$

Where:

EPFC - A	=	(tons/yr) for an annual emission of pollutant by county
EPFC - SD	=	(tons/day) for a typical summer day emission of pollutant
AADF	=	Annual activity day factor (SAF * 52 weeks/year)
SAF	=	Seasonal adjustment factor

#### 4.1.2 STATIONARY SOURCE SOLVENT APPLICATION

##### 4.1.2.1 Dry Cleaners

SCC: 24 20 000 000

##### **Description**

Dry-Cleaning facilities utilize solvents in their cleaning process which causes the emission of VOCs into the air.

##### **Pollutants**

VOC

##### **Method and**

##### **Data Source**

Emissions from the dry-cleaning process were estimated by taking county employment and adjusted employment numbers from dry-cleaning and multiplying them by a given per capita emission factor for VOCs.

##### *Activity*

The County Business Patterns reports employment data for the counties of Maryland. Employment data is listed by the North American Industrial Classification Standard (NAICS) code(s) (81231, 81232, and 81233) that are used to determine county-level employment. Employment data collected was allocated to each county using *County Business Patterns* employment data for 2013 for the counties of Maryland. County Business Patterns internet addresses (<http://censtats.census.gov/cgi-bin/cbpnaic/cbpsel.pl>). Midpoint adjustments were determined for counties which had employment given a letter range.

##### *Emission Factor*

Emission factor from the Pechan/ERTAC Study, 2007, base on employment activity data.  
VOC = 467 lbs per person.

##### **Point Source**

##### **Adjustments**

None

##### **Adjustments**

##### **for Controls**

None

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

Emissions are calculated for each county using emission factors and activity as:

$$E_{xy} = EMP_x \times EF_y$$

where:

$E_{xy}$  = annual emissions for county x and pollutant y

$EMP_x$  = employment data associated with county x

$EF_y$  = emission factor for pollutant y

### 2014 Sample Calculation Dry-Cleaning Emissions (Howard County)

$$E_{\text{Howardvoc}} = EMP_{\text{Howard}} \times EF_{\text{voc}}$$

$$E_{\text{Howardvoc}} = 394 \text{ person} \times 467 \text{ lbs voc/person (in calculation in is 394.31 persons)}$$

$$E_{\text{Howardvoc}} = 183,998 \text{ lbs. voc}$$

$$E_{\text{Howardvoc}} = 92.07 \text{ tons voc per year}$$

Dry-Cleaning was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 312

$$\text{Daily adjusted } E_{\text{Howardvocda}} = (E_{\text{Howardvoc}} / 312) * (\text{SAF} / \text{POS})$$

$$E_{\text{Howardvocda}} = (92.07 / 312 * (0.25 / 0.25)) = \mathbf{2.95E-01 \text{ VOC tons/day}}$$



#### 4.1.2.2 Industrial and Institutional Cleaning

SCC: 24 15 300 000

##### Description

Industrial and Institutional Cleaning (Cold Cleaning Degreasing) is seen primarily at auto repair stations or manufacturing facilities, where solvents at room temperature (or slightly warmed) are used to clean parts via immersion or rinsing.

Industrial and Institutional Cleaning are usually individually small emission sources and because they are widely scattered and frequently used, they are most easily treated as area sources. If they are collocated at a major source, they may be included in the point source inventory and those emissions will need to be subtracted from the area source estimate.

There are two basic types of cleaning machines: batch and in-line cleaning machines (also called continuous cleaning machines). Both of these equipment types are designed to use solvent to clean parts. The solvent is either used to clean in its non-vapor liquid form (at a temperature below the boiling point, referred to as cold cleaning), or heated to a temperature above its boiling point (referred to as vapor cleaning). Other solvent cleaning operations involve the use of solvent in wipe-cleaning and equipment cleanup. Emissions from solvent cleaning machines can also be considered to be point sources; therefore, the estimation process for the source category must take this into account to prevent double counting of emissions. Additionally, emissions from solvent cleanup may be included as a part of an industry- or process-specific emission estimate.

##### Pollutants

VOC and HAP (Trichloroethylene – 79016)

##### Method and Data Source

MDE staff used the methodology developed from the PECHAN/ERTAC Study, 2007, base on emplacement activity data and method documented in EIIP<sup>14</sup>, Chapter 6, Solvent Cleaning, dated September 1997 to emission estimation for this source category.

##### *Activity*

The County Business Patterns reports employment data for the counties of Maryland. Employment data is listed by the North American Industrial Classification Standard (NAICS) code(s) that are used to determine county-level employment. Employment data collected was allocated to each county using *County Business Patterns* employment data for 2013 for the counties of Maryland. County Business Patterns internet addresses (<http://censtats.census.gov/cgi-bin/cbpnaic/cbpsel.pl>).

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<sup>14</sup> Emission Inventory Improvement Program

An activity level of 6 days a week with no seasonal adjustment factor was used as recommended in the EIIP document. Solvent storage and recycling centers such as Safety Kleen are included in the point source inventory. A 2002 reduction factor (Phase II Attainment Plan for the Baltimore Nonattainment Area and Cecil County) of 53.60% was applied to the calculated emissions. This factor combines reductions from technology rules and good housekeeping practices and the application of rule effectiveness as shown below:

Reduction factor = (control efficiency) x (rule effectiveness) x (rule penetration)

Reduction factor = 0.67 x 0.80 x 1.00

Reduction factor = 0.5360

#### ***Emission Factor***

Table 6.5-2 of the EIIP document lists a total emission factor of 87 lbs. VOC per employee per year for solvent cleaning operations. The emission factor for the HAPs Trichloroethylene – 79016 was developed from the Pechan/ERTAC Study, 2007. Pechan/ERTAC Study, 2007 determine HAP Trichloroethylene emission factor base on a percent weight factor of total solvent VOC which is 0.00686. This percent weight factor of total solvent VOC was multiply by the total emission factor of 87 lbs. VOC per employee per year and divided by 100 that resulted in Trichloroethylene emission factor of 0.59685 lbs. Trichloroethylene /yr/employee.

#### **Factors**

$E_{cc} = 87 \text{ lbs voc per employee per year for cold cleaning degreasers}$

$CE_{cc} = 67\%$

$RE_{cc} = 80\%$

$RP_{cc} = 100\%$

#### **Note:**

Conveyor degreasing operations considered point sources that are listed in the MDE/ARA registration files. Point source emissions were then subtracted from the area source inventory by taking the reported emissions and back calculating to get the number of employees, which was then subtracted from the county business total employment before final estimation.

#### **Point Source Adjustments**

Solvent cleaning emissions from facilities identified as point sources were subtracted from the area source inventory to avoid double counting.

## Adjustment for Controls

Maryland has adopted a cold and vapor degreasing regulation (COMAR 26.11.19.09). The regulation mandates that all cold degreasing material must have a vapor pressure less than or equal to 1 mm Hg at 20 degrees centigrade after May 15, 1996. The regulation also requires that good operating practices be implemented to minimize VOC losses. MDE estimates a 67 percent control efficiency for this control.

## Spatial and Temporal Allocations

### *Spatial*

CBP employment data was spatial allocation for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

The equation used to estimate emissions from cold cleaning/degreasing is:

Equation:

$$E_{CC} = \left\{ \frac{EMPL_j * EF_{cc}}{2000} * [1 - (CE_{CC} * RE_{CC} * RP_{CC})] \right\} - E_{PtSourceCC}$$

Where:

$E_{cc}$	=	Emissions of VOC in tons/day from cold cleaners
$EMPL_j$	=	2013 employment of county j
$EF_{cc}$	=	VOC emissions factor for cold cleaning degreasing
$CE_{cc}$	=	Control efficiency for cold cleaning degreasing
$RE_{cc}$	=	Rule Effectiveness for cold cleaning degreasing
$RP_{cc}$	=	Rule Penetration for cold cleaning degreasing
$E_{PtSourceCC}$	=	Point Source Emissions from cold cleaning degreasing

2014 Sample Calculation for Cold Cleaning Degreasing Products Industrial and Institutional (Baltimore City)

Reported Point Source Emissions = 6.34088 tons VOC

Point Source Employment =  $(6.34088 \times 2000 \text{ tons/lb.} / 87 \text{ lbs. VOC/employee}) = 145.77 \text{ employees}$

$EMPL_{\text{Baltimore}} = (13,481^{15} - 145.77) = 13,335.23 \text{ employees}$

$EF_{cc} = 87 \text{ lbs. VOC /employee/year}$

$E_{cc\text{Baltimore}} = (13,335.23 \text{ employee} \times 87 \text{ lbs. VOC /employee/year}) / (\text{tons}/2000 \text{ lbs.})$

$E_{cc\text{Baltimore}} = 580.08 \text{ tons VOC /year}$

To adjust for controls

$E_{cc\text{BaltControlled}} = 580.08 \text{ tons VOC /year} \times [1 - (0.67 \times 0.80 \times 1.00)] = \mathbf{269.2 \text{ tons VOC / year}}$

Cold Cleaning Degreasing was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 312

Daily adjusted  $E_{cc\text{BaltControlled}_{da}} = (E_{cc\text{BaltControlled}} / 312) \times (\text{SAF} / \text{POS})$

$E_{cc\text{BaltControlled}_{da}} = (269.2 / 312 \times (0.25 / 0.25)) = \mathbf{8.63E-01 \text{ VOC tons/day}}$

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<sup>15</sup> *County Business Patterns* 2013 employment data for Maryland by Counties (see appendices)

#### 4.1.2.3 Surface Coating

Surface coating includes paints, enamels, varnishes, lacquers and other product finishes. Some of those coatings contain a solvent-based liquid carrier; others use a water-based liquid carrier but still contain a small portion of solvents. Solvents are also used to clean up painting equipment. The primary types of surface coating applications are architectural coatings, automobile refinishing and traffic paints.

#### 4.1.2.4 Architectural Surface Coating

**SCC: 24 01 002 000 (Solvent-based)**

**SCC: 24 01 003 000 (Water-based)**

##### **Description**

Architectural surface coating is an area source that occurs from homeowners and contractors painting homes, buildings and signs.

##### **Pollutants**

VOC

##### **Method and Data Sources**

MDE staff used an alternative per capita emission estimation method documented in EIIP<sup>1</sup>, Chapter 3 Architectural Surface Coating, dated November 1995. The document provides an outline for developing a per capita usage factor, and for using that usage factor with an emission factor to calculate VOC emissions.

##### ***Activity***

Determine the per capita usage factor by dividing the national total architectural surface coating quantities<sup>2</sup> for solvent- and water-based coatings by the U.S. population<sup>3</sup> for that year.

##### **Per Capita Usage Factor Development**

The table below shows a portion of Table 2 from the U.S. Bureau of Census MA325F(10)-1 - Paint and Allied Products 2010. This section of the table summarizes the market information available on architectural coatings for the year of 2010. In the table, types of paints are identified as being either solvent- or water-based paints, except for the two

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<sup>1</sup> Emission Inventory Improvement Program

<sup>2</sup> Total national coating usage is compiled by the Bureau of the Census, Report MA325F—Paint and Allied Products, available on the Census Bureau Bulletin Board, (301)457-2310.

<sup>3</sup> Population data from the U.S. Bureau of the Census, Population Estimates Branch (see Appendices).

types listed as Architectural Lacquers and Architectural Coatings N.S.K. These latter types of paints can be assumed to be entirely solvent-based coatings. The calculation to obtain the number of gallons of solvent based paints totals the gallons for Exterior Solvent Type, Interior Solvent Type, Architectural Lacquers and Architectural Coatings N.S.K:

$$\text{Solvent-Based Paints} = 113,964 \text{ thousand gallons of paints}$$

The calculation to obtain the number of gallons of water based paints totals the gallons for Exterior Water Type and Interior Water Type:

$$\text{Water-Based Paints} = 510,560 \text{ thousand gallons of paints}$$

The per capita usage factor is calculated by dividing the total usage of solvent based paints by the U.S. population, and the total usage of water based paint by the U.S. population.

$$\begin{aligned} \text{Per Capita Solvent Based Usage Factor} &= \frac{\text{Gallons of Solvent Based Paints}}{\text{U. S. Population}} \\ &= \frac{113,964,000}{311,591,917} \\ &= 0.3657 \end{aligned}$$

$$\begin{aligned} \text{Per Capita Water Based Usage Factor} &= \frac{\text{Gallons of Water Based Paints}}{\text{U. S. Population}} \\ &= \frac{510,560,000}{311,591,917} \\ &= 1.6386 \end{aligned}$$

Table 2. Quantity and Value of Shipments of Paint and Allied Products: 2010 and 2009

Product code	Product description	Year	Quantity
3255101	Architectural coatings	2010	643,900
		2009	634,874
3255101111	Exterior, solvent thinned paints and tinted bases, including barn and roof paints	2010	33,847
		2009	33,571
3255101115	Exterior, solvent thinned enamels and tinted bases, including exterior-interior floor enamels	2010	17,367
		2009	14,755
3255101119	Exterior, solvent thinned undercoaters and primers	2010	6,816

		2009	6,448
3255101121	Exterior, solvent thinned clear finishes and sealers	2010	4,028
		2009	4,054
3255101125	Exterior solvent thinned stains, including shingle and shake	2010	13,618
		2009	12,096
3255101129	Exterior, other solvent thinned coatings, including bituminous paints	2010	1,578
		2009	1,671
3255101131	Exterior, water thinned paints and tinted bases, including barn and roof paints	2010	92,625
		2009	93,665
3255101135	Exterior, water thinned exterior-interior deck and floor enamels	2010	10,583
		2009	10,727
3255101139	Exterior, water thinned undercoaters and primers	2010	10,587
		2009	10,725
3255101141	Exterior, water thinned stains and sealers	2010	21,501
		2009	20,678
3255101145	Exterior, other exterior water thinned coatings	2010	9,035
		2009	8,980
3255101211	Interior, flat solvent thinned wall paint and tinting bases, including mill white paints	2010	1,155
		2009	1,288
3255101215	Interior, gloss and quick drying enamels and other gloss solvent thinned paints and enamels	2010	3,983
		2009	3,389
3255101219	Interior, semigloss, eggshell, satin solvent thinned paints and tinting bases	2010	9,870
		2009	9,691
3255101221	Interior, solvent thinned undercoaters and primers	2010	21,702
		2009	(D)
3255101225	Interior, solvent thinned clear finishes and sealers	2010	(S)
		2009	(S)

3255101229	Interior, solvent thinned stains	2010	1,309
		2009	1,216
3255101231	Interior, other solvent thinned coatings	2010	(D)
		2009	(D)
3255101235	Interior, flat water thinned paints and tinting bases	2010	144,394
		2009	142,894
3255101239	Interior, semigloss, eggshell, satin, and other water thinned paints and tinting bases	2010	183,428
		2009	176,562
3255101241	Interior, water thinned undercoaters and primers	2010	38,407
		2009	42,781
3255101245	Interior, other interior water thinned coatings, stains, and sealers	2010	5,119
		2009	5,250
3255101249	Architectural lacquers	2010	4,086
		2009	4,126
3255104	Product finishes for original equipment manufacturers (OEM), excluding marine coatings	2010	329,931
		2009	285,070
3255104111	Automobile, light truck, van, and sport utility vehicle finishes	2010	43,172
		2009	31,580
3255104121	Automobile parts finishes	2010	2,792
		2009	1,929
3255104131	Heavy duty truck, bus, and recreational vehicle finishes	2010	5,757
		2009	5,352
3255104141	Other transportation equipment finishes, including aircraft and railroad	2010	5,369
		2009	4,187
3255104211	Appliance, heating equipment, and air-conditioner finishes	2010	3,990
		2009	4,266



3255104215	Wood furniture, cabinet, and fixture finishes	2010	34,578
		2009	32,500
3255104219	Wood and composition board flat stock finishes	2010	7,135
		2009	6,274
3255104221	Metal building product finishes (including coatings for aluminum extrusions and siding)	2010	36,455
		2009	35,303
3255104225	Container and closure finishes	2010	40,164
		2009	35,647
3255104229	Machinery and equipment finishes, including road building equipment and farm implement	2010	10,151
		2009	9,462
3255104231	Non-wood furniture and fixture finishes, including business equipment finishes	2010	22,155
		2009	20,710
3255104235	Paper, paper board, film, and foil finishes, excluding pigment binders	2010	(S)
		2009	10,854
3255104239	Electrical insulating coatings	2010	1,015
		2009	866
3255104241	Thermoset general decorative, appliance powder coatings <b>1/</b>	2010	8,951
		2009	6,933
3255104245	Thermoset general decorative, automotive powder coatings <b>1/</b>	2010	3,765
		2009	2,437
3255104249	Thermoset general decorative, architectural powder coatings (such as aluminum extrusions) <b>1/</b>	2010	1,096
		2009	959
3255104251	Thermoset general decorative, lawn and garden powder coatings <b>1/</b>	2010	999
		2009	890
3255104255	Thermoset general decorative, general metal finishing powder coatings <b>1/</b>	2010	19,806
		2009	16,225

3255104259	Thermoset functional powder coatings (for pipe, rebar, electrical insulation, etc.) 1/	2010	(D)
		2009	(D)
3255104261	Thermoplastic powder coatings (all) 1/	2010	(D)
		2009	(D)
3255104263	Other powder coatings	2010	(D)
		2009	(D)
3255104265	Other industrial product finishes	2010	23,378
		2009	20,774
3255107	Special purpose coatings, including all marine coatings	2010	168,326
		2009	158,575
3255107111	Industrial new construction and maintenance paints, interior	2010	35,570
		2009	34,704
3255107115	Industrial new construction and maintenance paints, exterior	2010	16,571
		2009	13,886
3255107121	Traffic marking paints (all types; shelf goods and highway department)	2010	37,335
		2009	35,047
3255107131	Automotive, other transportation and machinery refinish paints and enamels, including primers	2010	55,899
		2009	52,504
3255107141	Marine paints, ship and off-shore facilities and shelf goods for both new construction and marine refinish and maintenance. Excludes spar varnish	2010	10,924
		2009	11,498
3255107151	Marine paints for yacht and pleasure craft, new construction, refinish and maintenance	2010	(D)
		2009	(D)
3255107161	Aerosol - paint concentrates produced for packaging in aerosol containers	2010	(D)
		2009	(D)
325510B	Miscellaneous allied paint products	2010	145,119
		2009	134,263

325510B111	Paint and varnish removers	2010	(D)
		2009	5,075
325510B121	Thinners for lacquers and other solvent based paint products	2010	(D)
		2009	30,249
325510B131	Pigment dispersions	2010	(D)
		2009	25,877
325510B141	Other miscellaneous allied paint products, including brush cleaners, ink vehicles, putty and glazing compounds, etc.	2010	83,708
		2009	73,062

#### ***Emission Factor***

Use the emission factors for architectural surface coatings (EPA, 1993A), that are shown in Table 5-2 of the EIP document and reproduced below:

<b>Coating Type</b>	<b>VOC Content Lbs / gallon</b>
Water-based	0.74
Solvent-based	3.87
Total	4.61

This activity occurs 7 days a week and is usually more common in the summer months as indicated by a seasonal adjustment factor of 1.3 (see Table 5.8-1 in Procedures). It should be noted that 99% of solvents in these coatings are VOC.

#### **Point Source Adjustments**

Because the application of architectural surface coating is defined as an area source, there is no need to subtract point source emissions from the total, and all emissions estimated for this source are area source emissions.

#### **Adjustment for Controls**

EPA surface coating regulation provides a 20% reduction for phase I of the AIM rule and 31% reduction for phase II; this creates a control efficiency of 44.8%.

#### **Spatial and Temporal Allocations**

##### ***Spatial***

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## **Emissions Calculation**

The equation used to estimate emissions from architectural surface coatings is:

Equation to calculate solvent-based emissions is:

$$EM_{ASC-SB} = \frac{POP_i \times UF_{ASC-SB} \times EF_{SB} \times [(1 - (CE_{ASC} \times RE_{ASC} \times RP_{ASC}))]}{2000}$$

Where:

$EM_{ASC-SB}$  = VOC emissions in tons per day from solvent-based architectural surface coatings  
 $POP_i$  = 2014 population of county i  
 $UF_{ASC-SB}$  = Usage factor for solvent-based architectural surface coatings  
 $EF_{SB}$  = VOC emission factor for solvent-based architectural surface coatings  
 $CE_{ASC}$  = Control efficiency<sup>4</sup> for architectural surface coatings  
 $RE_{ASC}$  = Rule effectiveness<sup>5</sup> for architectural surface coatings  
 $RP_{ASC}$  = Rule penetration for architectural surface coatings

Equation to calculate water-based emissions is:

$$EM_{ASC-WB} = \frac{POP_i \times UF_{ASC-WB} \times EF_{WB} \times [(1 - (CE_{ASC} \times RE_{ASC} \times RP_{ASC}))]}{2000}$$

Where:

$EM_{ASC-WB}$  = VOC emissions in tons per day from water-based architectural surface coatings  
 $POP_i$  = 2014 population of county i  
 $UF_{ASC-WB}$  = Usage factor for water-based architectural surface coatings  
 $EF_{WB}$  = VOC emission factor for water-based architectural surface coatings  
 $CE_{ASC}$  = Control efficiency for architectural surface coatings  
 $RE_{ASC}$  = Rule effectiveness for architectural surface coatings  
 $RP_{ASC}$  = Rule penetration for architectural surface coatings

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<sup>4</sup> An overall 44.8% reduction in emissions is due to EPA's AIM regulation

<sup>5</sup> EPA's AIM regulation is a federal rule applying to architectural surface coatings

## 2014 Example Calculation Architectural Surface Coating (Carroll County)

### Solvent-Based

$$\text{POP}_{\text{Carroll}} = 167830 \text{ persons}$$

$$\text{UF}_{\text{ASC-SB}} = 0.3574 \text{ gal/capita}$$

$$\text{EF}_{\text{SB}} = 3.87 \text{ lbs. VOC/gal/year}$$

$$\text{CE}_{\text{ASC}} = 44.8\%$$

$$\text{RE}_{\text{ASC}} = 100\%$$

$$\text{RP}_{\text{ASC}} = 100\%$$

$$\text{EM}_{\text{ASC-SB}} = ((167830 \times 0.3574 \times 3.87) \times [1 - (0.448 \times 1.00 \times 1.00)]) / 2000$$

$$\text{EM}_{\text{ASC-SB}} = \mathbf{64.07 \text{ tons VOC per year Carroll County}}$$

Architectural Surface Coating Solvent-Based was found to have a

SAF = seasonal adjustment factor of 0.33

POS = peak ozone period of 0.25

Days of the Period 365

$$\text{Daily adjusted EM}_{\text{ASC-SBda}} = (\text{EM}_{\text{ASC-SB}} / 365) \times (\text{SAF} / \text{POS})$$

$$\text{EM}_{\text{ASC-SBda}} = (64.07 / 365 \times (0.33 / 0.25)) = \mathbf{2.32E-01 \text{ VOC tons/day}}$$

### Water-Based

$$\text{POP}_{\text{Carroll}} = 167830 \text{ persons}$$

$$\text{UF}_{\text{ASC-WB}} = 1.6012 \text{ gal/capita}$$

$$\text{EF}_{\text{WB}} = 0.74 \text{ lbs. VOC/gal/year}$$

$$\text{CE}_{\text{ASC}} = 44.8\%$$

$$\text{RE}_{\text{ASC}} = 100\%$$

$$\text{RP}_{\text{ASC}} = 100\%$$

$$\text{EM}_{\text{ASC-WB}} = ((167830 \times 1.6012 \times 0.74) \times [1 - (0.448 \times 1.00 \times 1.00)]) / 2000$$

$$\text{EM}_{\text{ASC-WB}} = \mathbf{54.89 \text{ tons VOC per year Carroll County}}$$

Architectural Surface Coating Solvent-Based was found to have a

SAF = seasonal adjustment factor of 0.33

POS = peak ozone period of 0.25

Days of the Period 260

$$\text{Daily adjusted EM}_{\text{ASC-WBda}} = (\text{EM}_{\text{ASC-WB}} / 260) \times (\text{SAF} / \text{POS})$$

$$\text{EM}_{\text{ASC-WBda}} = (54.89 / 260 \times (0.33 / 0.25)) = \mathbf{2.79E-01 \text{ VOC tons/day}}$$

#### 4.1.2.5 Auto Refinishing

SCC: 24 01 005 000

##### **Description**

Automobile refinishing is the repainting of worn or damaged automobiles, light trucks and other vehicles. Coating of new cars is not included in this category but falls under industrial coating. In automobile refinishing, lacquers and enamels are usually applied with hand-operated spray guns. Because the vehicles contain heat-sensitive plastics and rubber, the coatings are dried or cured in low-temperature ovens or at ambient conditions. MDE adopted a regulation based upon federal guidance that requires the use of reformulated coatings and equipment with greater transfer efficiency in the application of coatings.

##### **Pollutants**

VOC

##### **Method and Data Sources**

MDE staff used an alternative per employee emission estimation methodology documented in EIIP<sup>6</sup>, Chapter 13, Auto Body Refinishing, dated January 2000. The document provides an outline for developing a per employee emission factor using a national VOC emission estimate and national employment data.

##### ***Activity***

MDE calculated an emission factor of 710.7176 lbs. VOC per employee per year using an estimate of 151.9 million pounds of solvents sold nationally in 2007 and dividing it by 2007 County Business Patterns employment number of 213,758 for NAICS 811121: Automotive Body, Paint, Interior and Glass Repair. The amount of solvent sold was provided by the EPA in conjunction with The Freedonia Group and ERTAC.

Maryland has an auto body regulation which allowed MDE to take an 8% reduction in emissions. The autobody refinishing category does not include new car coating.

##### ***Emission Factor:***

710.7176 lbs of VOC per employee per year

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<sup>6</sup> Emission Inventory Improvement Program

## Point Source Adjustments

Autobody refinishing emissions from facilities identified as point sources were subtracted from the area source inventory to avoid double counting.

## Adjustment for Controls

Maryland's auto body regulation allowed MDE to apply an 8% control.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

The equation used to estimate emissions from automobile refinishing is:

$$E_{AR} = \frac{(\text{EMP}_J - \text{Emp}_{\text{Point AR}}) \times EF_{AR} \times [1 - (\text{RE} \times \text{RP} \times \text{CE})]}{2000}$$

Where:

- $E_{AR}$  = VOC emissions in tons per year from auto refinishing
- $\text{EMP}_J$  = Number of employees in county j for NAICS 81121 (auto refinishing) from County Business Patterns
- $EF_{AR}$  = VOC emission factor for auto refinishing
- $\text{Emp}_{\text{Point AR}}$  = Employment back calculated from point source emissions

### 2014 Example Calculation Auto Refinishing (Baltimore City)

$$E_{AR} = \frac{(350 - 0) \times 710.7176 \times [1 - (1.0 \times 1.0 \times .08)]}{2000}$$

**$E_{AR}$  = 114.43 Tons VOC / year**

Auto Refinishing was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 260

Daily adjusted  $E_{ARda} = (E_{AR} / 260) * (SAF / POS)$

$E_{ARda} = (114.43 / 260 * (0.25 / 0.25)) = 4.40E-01$  VOC tons/day

#### 4.1.2.6 Traffic Markings

SCC: 24 01 008 000 - Traffic paints

### Description

Traffic paints are used to mark pavement, the majority of which is used to create dividing lines for traffic lanes. These markings are applied by state or local highway maintenance crews or by contractors. VOC emissions result from the evaporation of organic solvents during and shortly after the application of the marking paint. All traffic paint emissions are included in the area source inventory.

### Pollutants

VOC

### Method and Data Sources

MDE surveyed city, county, and state agencies for gallons of paint used and the VOC content of the paint used.

#### *Activity*

The Maryland State Highway Administration (SHA) keeps data on gallons of traffic marking paint used by district and not by individual counties. For emissions from SHA line painting, each county's proportion of the total district's lane miles was multiplied by total gallons painted in a district to get an estimated amount of gallons used for each county. In a few counties, SHA does all the line painting. Also, data was collected from the Maryland Aviation Administration (MAA) and the Mass Transit Administration (MTA).

MDE was able to gather information on gallons of traffic paint used during the ozone season and during a year. The Material Safety Data Sheets and Environmental Data Sheets were collected for each paint and solvent used by each local jurisdiction and State agency doing the striping. It was necessary to collect data on yellow and white paint separately because the amount of VOCs per gallon is different for each type of paint.

The emission totals are slightly lower than in previous inventories because many jurisdictions have switched to latex (water-borne) paints for traffic marking, and those areas already using latex paints have switched to using a latex paint that is lower in VOC content than what was previously used. The widespread use of latex paints means that there are no longer any emissions from the solvents used to clean painting equipment when oil based paints are used. Several counties have been using thermoplastic and glass beads to help in traffic marking which also give off VOCs. A ratio of 14.1 and 13.5 pounds per



gallon of white and yellow thermoplastic respectively were equated and added to the amount of paint used. A ratio of 17.5 gallons of white paint was used for every 148.75 pounds of beads used. VOC content for thermoplastic and beads came from Material Safety Data Sheets and ratios were estimated with the help of paint suppliers and contractors.

The following information was collected from all public agencies using traffic marking paint in Maryland:

Gallons of yellow traffic paint and solvent used in 2014

Gallons of white traffic paint and solvent used in 2014

The MSDS and Environmental Data Sheets per type of paint provided the following information:

- Percent volatile by weight
- Percent water by weight
- Percent volatile organic compounds by weight
- Total VOC (lbs./gal)
- VOC/gallon less water

***Emission Factor***

<b>Traffic Paints</b>	<b>VOC Emission Factor (lbs. VOC/gallons)</b>
Yellow Paint	0.36 to 0.78
White Paint	0.11 to 0.78

The VOC pound per gallon of paint was obtained from the Material Safety Data Sheet (MSDS) for each color and brand of paint used. The appropriate factor was used for each calculation and the table above shows the range for each color.

**Point Source**

**Adjustments**

No subtraction of emissions from point sources is necessary.

**Adjustment for**

**Controls**

MDE surveyed the various state agencies that apply coatings to road surfaces and transportation projects. MDE collected data on the gallons of paint applied and the VOC content of the paint. MDE made emission estimates based on this data and therefore no controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

### Traffic Paint Sample Calculation (Harford County)

(1) Calculate VOC emissions from yellow and white traffic paints for year 2014

#### a. State Highway Administration (SHA) and Local Government (LG) Traffic Paint Use

Total yellow gallons used in 2014 = 6,420 gallons LG  
Total VOC per gallon of yellow paint used<sup>22</sup> = 0.78 lbs. VOC /gallon  
Total white gallons used 2014 = 1,041 gallons LG  
Total VOC per gallon of white paint used<sup>23</sup> = 0.78 lbs. VOC /gallon

Total yellow gallons used in 2014 = 13,107 gallons SHA  
Total VOC per gallon of yellow paint used<sup>24</sup> = 0.57 lbs. VOC /gallon  
Total white gallons used 2014 = 17,374 gallons SHA  
Total VOC per gallon of white paint used<sup>25</sup> = 0.57 lbs. VOC /gallon

$$E_{\text{Yellow Paint}} = \frac{((6,420 \times 0.78) + (13,107 \times 0.57))}{(2,000 \text{ lbs./ton})}$$

$$E_{\text{Yellow Paint}} = \mathbf{6.24 \text{ tons / year}}$$

$$E_{\text{White Paint}} = \frac{((1,041 \times 0.78) + (17,374 \times 0.57))}{(2,000 \text{ lbs./ton})}$$

$$E_{\text{White Paint}} = \mathbf{5.36 \text{ tons / year}}$$

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<sup>22</sup> MSDS from Caroline County's Department of Public Works, Division of Highways

<sup>23</sup> MSDS from Caroline County's Department of Public Works, Division of Highways

<sup>24</sup> MSDS from Caroline County's Department of Public Works, Division of Highways

<sup>25</sup> MSDS from Caroline County's Department of Public Works, Division of Highways

b. Maryland Aviation Administration (MAA) Traffic Paint Use

The MAA did not apply any paint in Harford County.

c. Maryland Transportation Administration (MTA) Traffic Paint Use

The MTA did not apply any paint in Harford County.

$$E_{\text{Paint Total}} = E_{\text{SHA Paint Total}} + E_{\text{Local Paint Total}} + E_{\text{MAA Paint Total}} + E_{\text{MTA Paint Total}} + E_{\text{Paint Solvent}}$$

$$E_{\text{Paint Total}} = 6.24 + 5.36 + 0.0 + 0.0 + 0.0$$

$$E_{\text{Paint Total}} = 11.60 \text{ tons / year VOC emissions for Harford County.}$$

Traffic Paint was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 260

Daily adjusted  $E_{\text{ARda}} = (E_{\text{AR}} / 260) * (\text{SAF} / \text{POS})$

$$E_{\text{ARda}} = (11.60 / 260 * (0.25 / 0.25)) = 4.46\text{E-02 VOC tons/day}$$

#### 4.1.2.7 Industrial Surface Coating

SCC: 24 01 015 000 (Finish Wood Product Manufacturing)  
24 01 020 000 (Wood Furniture and Fixtures)  
24 01 025 000 (Metal Furniture and Fixtures)  
24 01 030 000 (Paper, Film, and Foil)  
24 01 040 000 (Metal Cans)  
24 01 060 000 (Household Appliances Manufacturing)  
24 01 065 000 (Electronic and Other Electrical)  
24 01 070 000 (Motor Vehicles)  
24 01 075 000 (Aircraft)  
24 01 080 000 (Marine)  
24 01 085 000 (Railroads)  
24 01 090 000 (Miscellaneous Manufacturing)  
24 01 100 000 (Industrial Maintenance Coatings)  
24 01 200 000 (Other Coatings)

#### Description

Industrial surface coatings are applied during the manufacture of a wide variety of products, including furniture, cans, automobiles, other transportation equipment, machinery, appliances, metal coil, flat wood, wire and other miscellaneous products. In addition, coatings are used in maintenance operations at industrial facilities but these are considered paint sources.

#### Pollutants

VOC and HAPs

#### Method and

#### Data Sources

MDE used the methods and procedures documented in EIIP<sup>26</sup>, Chapter 8 Industrial Surface Coatings, dated September 1997. Applicable point source emissions (those within the same NAICS) are taken from the MDE/ARA registration files have been subtracted from the emissions calculated on a per capita and per employee basis that are presented below.

#### *Activity*

The choice between using per capita factors or per employee factors for categories where made based on the quality of data. County Business Patterns internet address: <http://censtats.census.gov/> lists employee data by North American Industry Classification System (NAICS). Many values are based on actual data. However, some county NAICS list a range for the number of employees through a letter code. In this case the arithmetic average number of employees per letter code per county was adjusted so that the state total employment in a NAICS matched the sum of the number of employees reported per county. For those categories where all or most of the employment data was listed as a range, the per capita factor was assumed to be more reliable and was used to calculate emissions. The U.S. Census Bureau reports population statistics for the counties of

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<sup>26</sup> Emission Inventory Improvement Program

Maryland. Population statistics for 2014 for the counties of Maryland were collected from the U.S. Census Bureau Internet address (<http://www.census.gov>).

Because the emission factors were developed based on NAICS employment data and 2013 was the last year employment data was available per NAICS, MDE used the 2013 County Business Patterns as the source for employment figures.

#### ***Emission Factor***

Per employee factors were used for the industry surrogate employment NAICS because they are generally more reliable (see Procedures, Table 4-10.1), and a comparison with per capita emissions in one county showed that for these SICs, the per capita factors led to a large overestimation of emissions. Per capita factors were used for the industry surrogate population NAICS because they prove to be more reliable for emission calculations than the per employee factor.

<b>Industry</b>	<b>SCC</b>	<b>NAICS</b>	<b>Surrogate</b>
Finish Wood Product Manufacturing	2401015000	321	Employment
Wood Furniture and Fixtures	2401020000	337110, 337121, 337122, 337127, 337129, 337211, 337212, 337215, 339111	Employment
Metal Furniture and Fixtures	2401025000	337124, 337127, 337214, 337215, 339111	Employment
Paper, Film, and Foil	2401030000	322222	Employment
Metal Cans	2401040000	33243	Employment
Household Appliances Manufacturing	2401060000	3352	Employment
Electronic and Other Electrical	2401065000	331319, 31422, 331491, 35921, 335929	Employment
Motor Vehicles	2401070000	3361, 3362, 3363	Employment
Aircraft	2401075000	3364	Employment
Marine	2401080000	3366, 488390	Employment
Railroads	2401085000	3365	Employment
Miscellaneous Manufacturing	2401090000	339, 3369	Employment
Industrial Maintenance Coatings	2401100000	NA <sub>a</sub>	Population
Other Coatings	2401200000	NA <sub>a</sub>	Population

Furthermore, NAICS used were the best correspond to SIC for each source category so that emission factors that were generated from EIIP SIC data could be used. EPA provided the correlation between NAICS and SIC

**Industrial Maintenance Coatings (NAICS) and Other Coatings (NAICS)**, emission factors are listed in a document prepared by Dennis Beauregard at EPA and named "Freedonia EFs 06-16-09.xls". The file has been modified by E.H Pechan and Associates, Inc. to correct for an error in NAICS code 441 for Cleaning Products: Industrial and Institutional (2415000000). The Freedonia emissions factor calculation file can be obtain from EPA for further detail on how each of the factors below were estimated.

<b>Industry</b>	<b>Per Employment VOC Emission Factor (lbs. voc/employee/year)</b>	<b>Per Capita VOC Emission Factor (lbs. voc/person/year)</b>
Finish Wood Product Manufacturing	43	NA
Wood Furniture and Fixtures	244	NA
Metal Furniture and Fixtures	772	NA
Paper, Film, and Foil	735	NA
Metal Cans	2,326	NA
Household Appliances Manufacturing	254	NA
Electronic and Other Electrical	24.7	NA
Motor Vehicles	164	NA
Aircraft	15	NA
Marine	198	NA
Railroads	222	NA
Miscellaneous Manufacturing	136	NA
Industrial Maintenance Coatings	NA	0.8
Other Coatings	NA	0.8

### **Point Source Adjustments**

Applicable point source emissions (those within the same NAICS) taken from the MDE/ARA registration files have been subtracted from the calculated emissions, and their emissions are separated from the totals presented below.

### **Adjustment for Controls**

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

### Equation:

$$E_{FW} = \frac{EMPL_i \times EF_{FW}}{2000}$$

Where:

$E_{FW}$  = VOC emissions in tons per year from finish wood product manufacturing.

$EMPL_i$  = employees in county i employed in NAICS 321.

$EF_{FW}^{27}$  = VOC emission factor for finished wood which is 43 lbs. voc per employee per year

### 2014 Example Calculation Industrial Surface Coating – Finish Wood Product Manufacturing (Baltimore City)

Number of employees in NAICS 321 in Baltimore City (2013 County Business Patterns):

$$EMPL_{BC} = 39$$

Emission factor for finish wood product manufacturing (lbs. VOC/employee/year):

$$EF_{FW} = 43$$

5 days per week activity level, no seasonal adjustment factor

$$E_{FW} \text{ (Baltimore City)} = \frac{(39 \times 43)}{2000}$$

$$E_{FW} \text{ (Baltimore City)} = 0.84 \text{ tons voc per year}$$

Traffic Paint was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 260

$$\text{Daily adjusted } E_{ARda} = (E_{FW} \text{ (Baltimore City)} / 260) * (SAF / POS)$$

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<sup>27</sup> Table 8.5-1, EIIP Chapter 8 Industrial Surface Coatings

$$E_{ARda} = (0.84 / 260 * (0.25 / 0.25)) = 3.22E-03 \text{ VOC tons/day}$$



#### 4.1.2.8 Industrial Adhesives

SCC: 2440020000

##### **Description**

Industrial adhesives are the application of a liquid or powder substance, such as solvent type paints, varnishes, and lacquers to a surface for decorative or protective purposes. The substances can be applied by brushing, rolling, spraying, dipping or flow coating. VOCs are released into the air as the substance dries. Powder coatings are applied to a hot surface and then melted; VOCs are released as the powder melts and dries.

##### **Pollutants**

VOC and HAPs

##### **Method and**

##### **Data Sources**

MDE staff used EPA's "Solvent Mass Balance" methodology for estimating emissions from nonpoint solvents, which uses the total solvent production and sales for a particular source category to estimate overall emissions then subtracting out emissions due to point sources, waste management, and recycling.

##### *Activity*

Per capita activity data was used and downloaded from the US Census Bureau (internet address: <http://www.census.gov>) July 1, 2014 population statistic estimates for the counties of Maryland<sup>28</sup>.

##### *Emission Factor*

MDE used the emission factor of 1.10 lbs/capita/year developed by Determination of Reasonably Available Control Technology and Best Available Retrofit Control Technology for Adhesives and Sealants, California Air Resources Board document for adhesives and sealants (CARB RACT/BARCT for Adhesives/ Sealants, Dec 1998)<sup>29</sup>.

CARB RACT/BARCT estimated emission factor calculation for adhesives/sealants is as following:

VOC = 45 tons/day estimated in 1994 \* 365 days/year \* 2000 lbs/ton / 29,760,021 capita where 45 tons/day is the estimated state-wide emissions for industrial adhesives in California, 2000 lbs/ton is a conversion factor, and 29,760,021 capita is the 1990 population of California.

VOC Emf = 1.10 lbs/capita/year of industrial adhesives

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<sup>28</sup> 2014 estimated population from U.S. Bureau of the Census, Population Estimation Branch (see Appendices).

<sup>29</sup> Emission factors were developed by CARB RACT/BARCT for Adhesives/ Sealants, Dec 1998.

## Point Source Adjustments

No subtraction of emissions from point sources is necessary.

## Adjustment for Controls

Maryland has adopted an industrial adhesive and coatings regulation (COMAR 26.11.19.15). The regulation is similar to the one proposed by the Ozone Transport Commission (OTC) and achieves VOC reductions through two basic components: sale and manufacture restrictions that limit the VOC content of specified adhesives, sealants and primers sold in the state; and use restrictions that apply primarily to commercial/industrial applications.

A reasonably available control technology determination (CARB RACT/BARCT for Adhesives/Sealants, Dec 1998) prepared by the California Air Resources Board (CARB) in 1998 forms the basis of this model rule. In the years 1998-2001, the provisions of the CARB determination were adopted in regulatory form in various air pollution control districts in California including the Bay Area, Ventura County, Sacramento Metropolitan and San Joaquin Valley.

CARB and OTC estimate a 64.4 percent reduction in emissions from the source category regulation that was fully implemented in Maryland in 2009.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

### Equation:

$$E_{OC} = \frac{POP_i \times EF_{OC}}{2000} \times [1 - (CE \times RE \times RP)]$$

where:

$E_{OC}^{30}$  = VOC emissions in tons per year from industrial adhesives.

$POP_i$  = 2014 population of county i

$EF_{OC}^{31}$  = VOC emission factor for industrial adhesives.

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<sup>30</sup> 2014 estimated population from U.S. Bureau of the Census, Population Estimation Branch (see Appendices).

<sup>31</sup> Emission Inventory Improvement Program Vol III, Ch. 6, September 1997.

CE = Control Efficiency

RE = Rule Effectiveness

RP = Rule Penetration

To adjust for control efficiency OTC-PECHAN Control Measure Report:

2014 base year where:

CE = 0.644, RE = RP = 1.

$$[1 - (CE \times RE \times RP)] = [1 - (0.644 \times 1 \times 1)] = 0.356$$

2014 Per Capital Sample Calculation for Industrial Adhesives in Harford County:

2014 U.S. Census Bureau Population Estimate for Harford County:

EF<sub>OC</sub> = 250,105

Emission factor for industrial adhesives (lbs. VOC/person/year):

EF<sub>OC</sub> = 1.10

5 days per week activity level, no seasonal adjustment factor

Equation:

$$E_{OC} = \frac{POP_i \times EF_{OC}}{2000} \times [1 - (CE \times RE \times RP)]$$

$$E_{OCHarford} = \frac{250,105 \times 1.10 \times [1 - (0.644 \times 1.0 \times 1.0)]}{2000} = 48.97 \text{ tons VOC per year.}$$

Industrial Adhesives was found to have a

SAF = seasonal adjustment factor of 0.28

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted  $E_{OCHarfordda} = (E_{OCHarford} / 365) \times (SAF / POS)$

$$E_{OCHarfordda} = (48.97 / 365) \times (0.28 / 0.25) = 1.50E-01 \text{ VOC tons/day}$$

#### 4.1.2.9 Graphic Arts

SCC: 24 25 000 000 (Screen & Plateless)  
24 25 010 000 (Offset Lithography)  
24 25 020 000 (Letterpress)  
24 25 030 000 (Rotogravure)  
24 25 040 000 (Flexography)

#### Description

Graphic arts include operations that are involved in the printing of newspapers, magazines, books and other printed materials. There are six basic operations used in graphic arts: lithography, gravure, letterpress, flexography, screen printing and metal decorating (plateless). In our calculations screen and plateless printing were paired together and make up a combined 6% market share of all printing. Lithography accounts for nearly half of all graphic arts operations.

#### Pollutants

VOC

#### Method and Data Sources

MDE staff used an alternative per capita emission estimation method documented in EIIP<sup>4</sup>, Chapter 7 Graphic Arts, dated November 1996. The EIIP methodology recommended an emission factor of 1.3 lbs. voc per capita per year emission factor (EPA, 1991) for graphic arts sources emitting less than 100 tons VOC per year. Yearly activity was used with no seasonal adjustment factor as recommended in Table 5.8-1 in Procedures. All point source graphic arts facilities (NAICS 11531) in the ARA registration files for 2014 emissions were subtracted from the area source inventory.

#### Activity

The estimated percentage of market share, reported in Table 7.2-3 of the EIIP document and reproduced below, was used to allocate the total graphic arts emissions to specific printing types. Maryland has different regulations regarding specific types of printing operations and thus to calculate controlled emissions the estimated percentage that each type of printing operation contributes to the total had to be determined.

Type of Printing (MS <sub>type</sub> )	Estimated Percentage of Product Market Share
Rotogravure	18
Flexography	18
Offset Lithography	47
Letterpress	8

<sup>4</sup> Emission Inventory Improvement Program

Screen	3
Plateless	3

***Emission Factor***

1.3 lbs. voc per capita per year

**Point Source**

**Adjustments**

Graphic arts emissions from facilities identified as point sources were subtracted from the area source inventory to avoid double counting.

**Adjustment for**

**Controls**

Control efficiency is based on Maryland regulations for each type of printing process and has been developed within technical support documents for the graphic arts printing regulations. Rule penetration has been defined as the estimated percentage that each type of printing operation. Rule effectiveness has been assigned the EPA default value of 80 per cent.

Control	Lithographic	Rotogravure	Letterpress	Flexographic	Screen
Rule Effectiveness (RE)	0.800	0.800	0.800	0.800	0.800
Rule Penetration (RP)	1.000	1.000	1.000	1.000	1.000
Control Efficiency (CE)	0.750	0.630	0.000	0.540	0.350
Reduction factor (RE x RP x CE)	0.600	0.504	0.000	0.432	0.280

**Spatial and**

**Temporal**

**Allocations**

***Spatial***

Data for spatial allocation is not available for this source.

***Temporal***

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

**Emissions**

**Calculation**

The equation used to estimate emissions from graphic arts is:

Equation:

$$E_{GA} = \frac{MS_{type} \times POP_i \times EF_{GA}}{2000} \times (1 - RF_{GA})$$

Where:

- $E_{GA}$  = VOC emissions in tons per year from graphic arts
- $MS_{type}$  = Market share percent of the type of printing
- $POP_i$  = 2014 population of county i
- $EF_{GA}$  = VOC emission factor for graphic arts (1.3<sup>32</sup> lbs. voc per person per year)
- $RF_{GA}$  = Reduction Factor for Printing
- $RF_L$  = Reduction Factor for Lithographic Printing
- $RF_{LP}$  = Reduction Factor for Letterpress Printing
- $RF_R$  = Reduction Factor for Rotogravure Printing
- $RF_F$  = Reduction Factor for Flexographic Printing
- $RF_S$  = Reduction Factor for Screen & Plateless Printing

2014 Example Calculation Graphic Arts (Anne Arundel County)

$$E_{GAL} = \frac{0.47 \times 560,133 \times 1.3}{2000} \times (1 - 0.600)$$

$$E_{GALP} = \frac{0.08 \times 560,133 \times 1.3}{2000} \times (1 - 0.0)$$

$$E_{GAR} = \frac{0.18 \times 560,133 \times 1.3}{2000} \times (1 - 0.504)$$

$$E_{GAF} = \frac{0.18 \times 560,133 \times 1.3}{2000} \times (1 - 0.432)$$

$$E_{GAS} = \frac{0.06 \times 560,133 \times 1.3}{2000} \times (1 - 0.280)$$

$$E_{GAsum} = (E_{GAL} + E_{GALP} + E_{GAR} + E_{GAF} + E_{GAS})$$

$$E_{GAsum} = (68.45 + 29.13 + 32.51 + 37.22 + 15.73)$$

$$E_{GAsum} = \mathbf{183.03 \text{ tons voc per person year}} \quad (\text{Totals may be slightly different due to rounding})$$

Graphic Arts was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 260

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<sup>32</sup> Emission factor from EIIP Chapter 7 Graphic Arts

Daily adjusted  $E_{GAsumda} = (E_{GAsum} / 260) * (SAF / POS)$

$E_{GAsumda} = (183.03 / 260) * (0.25 / 0.25) = 7.04E-01 \text{ VOC tons/day}$

#### 4.1.2.10 Asphalt Paving and Roofing

SCC: 24 61 022 000 Emulsified  
24 61 020 000 Misc. Application (Road Oil)  
24 61 021 000 Cutback  
24 61 023 000 Roofing

#### Description

The two types of asphalt paving used for road paving and repair are cutback asphalt and emulsified asphalt. Cutback asphalt is a liquefied road surface prepared by blending (or "cutting back") asphalt cement with different petroleum distillates or (road oils). The second type, emulsified asphalt, is also a liquefied road surface, but is prepared with a water/soap mixture instead of petroleum distillates. Cutback asphalt emits more VOCs, and its use has been limited in Maryland to the non-ozone period of April 15 to October 15. Asphalt like tar is also used for roofing similar to rubberizing.

#### Pollutants

VOC

#### Method and

#### Data Sources

MDE calculated emissions for this category by using a combination of factors from the Sacramento Metropolitan Air Quality Management District (SMAQMD) 1991 Survey, the California Air Resources Board, and EPA's AP-42. It estimated that 80% of all asphalt used in Maryland is for paving, and the remaining 20% is for roofing.

#### *Activity*

Total barrels of asphalt used in Maryland was obtained from the Energy Information Administration (EIA) and separated to county level. Maryland used 2,724,000 barrels of asphalt in 2013. Also, 2014 population statistics for the counties of Maryland were collected from the Census Bureau Internet address (<http://www.census.gov>).

#### *Emission Factors:*

Asphalt Related Material	VOC Emission Factors	EF Units
Emulsified	17.9	lbs/ton
Road Oils	70.4	lbs/ton
Cutback	268.3	lbs/ton
Asphalt Roofing	6.2	lbs/ton



## Point Source Adjustments

No subtraction of emissions from point sources is necessary.

## Adjustment for Controls

State of Maryland Department of Environment regulations (COMAR 26.11.11.02B), prohibit use of cutback asphalt paving from April 15 to October 15 so ozone precursor emissions from cutback asphalt application were not calculated. Cutback asphalt is made by blending asphalt cement with petroleum distillates that evaporate when the road surface is "cured" after application. Cutback was given a control efficiency of 100 %, rule effectiveness of 80%, and rule penetration of 100%. All other asphalts had no controls applied. Emulsified asphalt is asphalt cement mixed with a blend of water and an emulsifier, usually soap.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

Emission estimates were calculated by converting total barrels used to tons of asphalt, multiplying it by appropriate emission factor, and then proportioning them by population to the county level. There is 350 lbs of asphalt in each barrel. Out of all asphalt used in the state, approximately 80% is used for paving and 20% is used for roofing. Paving asphalt usage is further separated below:

Paving Asphalt Percent	
Paving Hot-mix:	92%
Paving Emulsified:	5%
Paving Road Oils:	2%
Paving Cutback	1%
Roofing of state total	20%

Tons of Paving Asphalt	
Hot-mix:	2,506,080
Emulsified:	136,200
Road Oils:	54,480
Cutback	27,240
Roofing	544,800

Hot-mix emissions were calculated by facilities and reported with point source inventory.

The equation used to estimate emissions from asphalt paving is:

$$E_A = \frac{CLA_{Type} \times EF_{Type}}{2000} \times (1 - (RE \times RP \times CE))$$

Where:

$E_A$  = VOC emissions tons

$CLA_{Type}$  = Estimated amount of asphalt type used (tons)

$EF_{Type}$  = emission factor for type of asphalt in lbs voc per ton of asphalt per yr

RE = Rule Effectiveness

RP = Rule Penetration

CE = Control efficiency

### **2014 Road Oils Asphalt Sample Calculations: Anne Arundel County**

Total Maryland Population for 2014 was 5,976,407 people.

Anne Arundel County population for 2014 was 560,133 people.

Usage ratio for Anne Arundel County is  $USE_a = (560,133 / 5,976,407) = 0.0937$

Total barrels of asphalt used in Maryland in 2014 were 2,724,000 and minus 20% for roofing leaves 2,179,200 barrels. 2% is road oils, which is 43,584 barrels.

$$CLA_{AA} = \frac{(43,584 \text{ barrel} \times 350 \text{ lbs per barrel})}{2000} \times 0.0937 = 714.85 \text{ tons road used}$$

$$E_{AARoadOils} = \frac{714.85 \times 70.4}{2000} \times (1 - (1 \times 1 \times 0))$$

$$E_{AARoadOils} = 25.16 \text{ tons voc Anne Arundel County per year}$$

(Similar calculation can be done for each asphalt type for each county)

Road Oils Asphalt was found to have a

SAF = seasonal adjustment factor of 0.39

POS = peak ozone period of 0.25

Days of the Period 312

$$\text{Daily adjusted } E_{AARoadOilsda} = (E_{AARoadOils} / 312) \times (SAF / POS)$$

$$E_{AARoadOilsda} = (25.16 / 312) \times (0.39 / 0.25) = \mathbf{1.26E-01 \text{ VOC tons/day}}$$

#### 4.1.2.11 Synthetic Organic Chemical Storage Tanks

This category is fully represented in the point source inventory.

#### 4.1.2.12 Pesticide Application

SCC: 24 61 800 000

##### Description

Pesticides are substances or mixtures used to control plant and animal life for the purposes of: agricultural production, public health from pest-borne disease, reducing property damage due to pests, and improving the aesthetic quality of outdoor and indoor surroundings. Agriculture, homeowners, industry, and government agencies use pesticides. The largest usage of pesticides by weight is in agriculture. Agricultural pesticides control weeds, insects, mites, fungi, nematodes, and other threats to the yield, quality, or safety of food production.

Emissions arise from pesticide use because of the volatile nature of many ingredients, solvents, or other additives used in the formulations. Many pesticide formulations use solvents as carriers for more active organic or inorganic ingredients. In pesticide formulations, the organic or inorganic solute is the "active ingredient" (AI), while the solvent carrier is the "inert carrier." Thus, the terms "active" and "inert" in pesticide formulations refer to toxicological action, and are not indicators of photochemical activity. Both the active and inert ingredients in these formulations evaporate and contribute to VOC emissions.

##### Pollutants

VOC and HAPs

##### Method and Data Source:

Pesticide usage data used to calculate pesticide emissions came from a 2011 survey conducted by the Pesticide Regulation Section of the Maryland Department of Agriculture and the U.S. Department of Agriculture. Also, the Maryland and National Agricultural Statistics services in cooperation with the Departments of Agriculture compiled information for the document, Maryland Pesticide Statistics for 2011, which reported pesticide usage in pounds used in a year by active ingredient for each Maryland County.

EPA post new guidance for calculating pesticide emissions on its FTP site under the document, "**Agricultural Pesticide Application**". The site also included files containing new estimated emission factors for several different pesticides and a weighted average emission factor ( $EF_{avg}$ ) value of 0.4 pounds of VOC per pound of active ingredient (default factor). Since Maryland had over 200 pesticides reported and about 50 of the pesticides listed in the Maryland Pesticide Statistics were not found in any of EPA's files

or any of the other country wide databases, an estimation of emissions were split into those calculated from EPA factors and the rest were defaulted from the EF<sub>avg</sub> value.

The emissions were calculated by multiplying the amount of active ingredient by its emission factor. The total amounts of emissions were estimated, but the amount used in each county was not given, therefore reported harvest acres were used to divide emissions into each county. Pesticide use was not reported for a particular pesticide-by-crop, but the Maryland Department of Agriculture's, "Harvested Acres 2014-2015 MD Annual Bulletin" reported the types of crops and the amount of each harvest in each county. In Maryland pesticides for soybean and corn are normally applied to soil and wheat and barley are applied to the surface. A percentage based on the portion of each crop type was also used to further divide emissions by county and by soil or surface application and reported by SCC. Pesticides used to estimate emissions are shown below.

Pesticides Used in Maryland 2011 to 2014

COMPOUND	Emissions Factor	EF Numerator	EF Denominator	PESTICIDES	Active Ingredient lbs	VOC lbs	VOC tons
2,4-D	0.827317385	LB	LB	2,4-D	439538	363,637.43	1.82E+02
ABAMECTIN	15.23561412	LB	LB	Abamectin	21	319.95	1.60E-01
ACEPHATE	0.275041704	LB	LB	Acephate	6302	1,733.31	8.67E-01
ACETOCHLOR	0.400383954	LB	LB	Acetochlor	25082	10,042.43	5.02E+00
ALACHLOR	0.513361927	LB	LB	Alachlor	3941	2,023.16	1.01E+00
ALUMINUM PHOSPHIDE	0.054556719	LB	LB	Aluminum Phosphide	603	32.90	1.64E-02
ATRAZINE	0.148401799	LB	LB	Atrazine	381321	56,588.72	2.83E+01
AZADIRACTIN	10.0915389	LB	LB	Azadirachtin - AZAD	5	50.46	2.52E-02
AZINPHOS-METHYL	0.464016872	LB	LB	Azinphos-Methyl	524	243.14	1.22E-01
AZOXYSTROBIN	0.343670293	LB	LB	Azoxystrobin	5213	1,791.55	8.96E-01
BACILLUS THURINGIENSIS	0.487106569	LB	LB	Bacillus thuringiensis	477	232.35	1.16E-01
BENSULIDE	0.553077954	LB	LB	Bensulide	725	400.98	2.00E-01
BENTAZONE	0.052626728	LB	LB	Bentazone	149	7.84	3.92E-03
BIFENAZATE	0.083591796	LB	LB	Bifenazate	289	24.16	1.21E-02
BIFENTHRIN	1.565896363	LB	LB	Bifenthrin	34527	54,065.70	2.70E+01
BROMACIL	0.849596002	LB	LB	Bromacil	62	52.67	2.63E-02
BROMOXYNIL	0.400383954	LB	LB	Bromoxynil	18	7.21	3.60E-03
CAPTAN	0.144094541	LB	LB	Captan	7127	1,026.96	5.13E-01
CARBARYL	0.320840195	LB	LB	Carbaryl	9295	2,982.21	1.49E+00
CHLORMEQUAT	0.58559322	LB	LB	Chlormequat / Chlormequat Trimethylammonium Chloride	160	93.69	4.68E-02
CHLORONEB	0.073553859	LB	LB	Chloroneb	245	18.02	9.01E-03
CHLOROPICRIN	1.272361758	LB	LB	Chloropicrin	6	7.63	3.82E-03
CHLOROTHALONIL	0.1129023	LB	LB	Chlorothalonil	61069	6,894.83	3.45E+00
CHLORPYRIFOS	1.537880735	LB	LB	Chlorpyrifos	8840	13,594.87	6.80E+00

CHLORSULFURON	0.027708333	LB	LB	Chlorsulfuron	98	2.72	1.36E-03
CLETHODIM	1.839959947	LB	LB	Clethodim	1680	3,091.13	1.55E+00
CLOMAZONE	0.148722416	LB	LB	Clomazone	47698	7,093.76	3.55E+00
CLOPYRALID	0.050478293	LB	LB	Clopyralid	2832	142.95	7.15E-02
CLORANSULAM-METHYL	0.400383954	LB	LB	Cloransulam-methyl	421	168.56	8.43E-02
COPPER	0.218167983	LB	LB	Copper	1044	227.77	1.14E-01
COPPER HYDROXIDE	0.059585448	LB	LB	Copper Hydroxide	3390	201.99	1.01E-01
COPPER OXYCHLORIDE S	0.025917034	LB	LB	Copper Oxychloride Sulfate	143	3.71	1.85E-03
COPPER SULFATE	0.061965322	LB	LB	Copper Sulfate	6462	400.42	2.00E-01
CYCLOATE	0.506874154	LB	LB	Cycloate	14	7.10	3.55E-03
CYFLUTHRIN	1.735956923	LB	LB	Cyfluthrin	1432	2,485.89	1.24E+00
CYPERMETHRIN	1.521227778	LB	LB	Cypermethrin	97844	148,843.01	7.44E+01
CYPRODINIL	0.049082716	LB	LB	Cyprodinil	193	9.47	4.74E-03
DAMINOZIDE	0.045436404	LB	LB	Daminozide	58	2.64	1.32E-03
DCPA	0.400383954	LB	LB	DCPA	86	34.43	1.72E-02
DELTAMETHRIN	3.948853616	LB	LB	Deltamethrin	1350	5,330.95	2.67E+00
DIAZINON	0.760312174	LB	LB	Diazinon	3331	2,532.60	1.27E+00
DICAMBA	0.084360404	LB	LB	Dicamba	51343	4,331.32	2.17E+00
DICHOLOBENIL	0.43419938	LB	LB	Dichlobenil	5168	2,243.94	1.12E+00
DICLORAN	0.08749595	LB	LB	Dicloran	99	8.66	4.33E-03
DIFENOCONAZOLE	1.120455469	LB	LB	Difenoconazole	4448	4,983.79	2.49E+00
DIFLUFENZOPYR	0.158742894	LB	LB	Diffuzenzopir	361	57.31	2.87E-02
DIMETHENAMID	0.134539705	LB	LB	Dimethenamid	5125	689.52	3.45E-01
DIMETHOATE	0.83005574	LB	LB	Dimethoate	243677	202,265.49	1.01E+02
DIQUAT	1.456185648	LB	LB	Diquat Dibromide	10835	15,777.77	7.89E+00
DITHIOPYR	0.955493833	LB	LB	Dithiopyr	52005	49,690.46	2.48E+01
DIURON	0.072313516	LB	LB	Diuron	527	38.11	1.91E-02
EPTC	0.517446714	LB	LB	EPTC	2905	1,503.18	7.52E-01
ESFENVALERATE	8.919447472	LB	LB	Esfenvalerate	808	7,206.91	3.60E+00
ETHALFLURALIN	1.554014599	LB	LB	Ethalfuralin	1376	2,138.32	1.07E+00
ETHEPHON	0.302374472	LB	LB	Ethephon	1056	319.31	1.60E-01
ETHOFUMESATE	0.690939895	LB	LB	Ethofumesate	5	3.45	1.73E-03
ETRIDIAZOLE	0.400383954	LB	LB	Etridiazole	118384	47,399.05	2.37E+01
FENARIMOL	1.40425992	LB	LB	Fenarimol	11	15.45	7.72E-03
FENBUCONAZOLE	0.048981043	LB	LB	Fenbuconazole	29	1.42	7.10E-04
FENHEXAMID	0.036836803	LB	LB	Fenhexamid	258	9.50	4.75E-03
FENOXAPROP	3.132	LB	LB	Fenoxaprop-Ethyl	408	1,277.86	6.39E-01
FENPROPATHRIN	1.469129721	LB	LB	Fenpropathrin	133	195.39	9.77E-02
FIPRONIL	6.462993609	LB	LB	Fipronil	21380	138,178.80	6.91E+01
FLUAZIFOP	1.464201878	LB	LB	Fluazifop-P-Butyl	618	904.88	4.52E-01

FLUDIOXONIL	0.307704511	LB	LB	Fludioxonil	41	12.62	6.31E-03
FLUMETSULAM	0.400383954	LB	LB	Flumetsulam	139	55.65	2.78E-02
FLUMICLORAC	0.565346535	LB	LB	Flumiclorac-pentyl ester	28	15.83	7.91E-03
FLURIDONE	0.628558861	LB	LB	Fluridone	33	20.74	1.04E-02
FLUTOLANIL	0.03072934	LB	LB	Flutolanil	283	8.70	4.35E-03
FOMESAFEN	0.400383954	LB	LB	Fomesafen	1326	530.91	2.65E-01
FOSETYL	0.04897535	LB	LB	Fosetyl Aluminum	1681	82.33	4.12E-02
GAMMA AMINOBUTYRIC ACID	0.400383954	LB	LB	Gibberellic Acid	1	0.40	2.00E-04
GLUFOSINATE	0.441993604	LB	LB	Glufosinate-ammonium	8350	3,690.65	1.85E+00
GLYPHOSATE	0.158572216	LB	LB	Glyphosate	721154	114,354.99	5.72E+01
HALOSULFURON	0.032232225	LB	LB	Halosulfuron-methyl	1189	38.32	1.92E-02
HEXAZINONE	0.141677658	LB	LB	Hexazinone	74	10.48	5.24E-03
HEXYTHIAZOX	0.422988241	LB	LB	Hexythiazox	77	32.57	1.63E-02
HYDRAMETHYLNON	0.613627515	LB	LB	Hydramethylnon	5	3.07	1.53E-03
IMAZAPYR	0.024746163	LB	LB	Imazapyr	408	10.10	5.05E-03
IMAZAQUIN	0.400383954	LB	LB	Imazaquin	37	14.81	7.41E-03
IMAZETHAPYR	0.018776758	LB	LB	Imazethapyr	1644	30.87	1.54E-02
IMIDACLOPRID	0.30515662	LB	LB	Imidacloprid	231323	70,589.74	3.53E+01
IPRODIONE	0.202777271	LB	LB	Iprodione	4118	835.04	4.18E-01
ISOXABEN	0.102701053	LB	LB	Isoxaben	662	67.99	3.40E-02
KINOPRENE	0.466385911	LB	LB	Kinoprene	11	5.13	2.57E-03
KRESOXIM-METHYL	0.0338	LB	LB	Kresoxim-methyl	108	3.65	1.83E-03
LACTOFEN	0.400383954	LB	LB	Lactofen	4	1.60	8.01E-04
LINURON	0.077406043	LB	LB	Linuron	1174	90.87	4.54E-02
MALATHION	0.408564945	LB	LB	Malathion	691	282.32	1.41E-01
MALEIC HYDRAZIDE	0.015361446	LB	LB	Maleic Hydrazide	80	1.23	6.14E-04
MANCOZEB	0.04714311	LB	LB	Mancozeb	30280	1,427.49	7.14E-01
MANEB	0.070666852	LB	LB	Maneb	5753	406.55	2.03E-01
MCPA	0.470093248	LB	LB	MCPA dimethylamine salt	5354	2,516.88	1.26E+00
MEFENOXAM	0.58651298	LB	LB	Mefenoxam	828	485.63	2.43E-01
METALAXYL	0.505514399	LB	LB	Metalaxyl-M	803	405.93	2.03E-01
METAM	0.566	LB	LB	Metam-Sodium	8010	4,533.66	2.27E+00
METHOMYL	0.114625109	LB	LB	Methomyl	2759	316.25	1.58E-01
METHYL BROMIDE	1.158524567	LB	LB	Methyl Bromide	296	342.92	1.71E-01
METIRAM	0.110225	LB	LB	Metiram	5	0.55	2.76E-04
METOLACHLOR-S	0.197923197	LB	LB	S-Metolachlor	555807	110,007.10	5.50E+01
METRIBUZIN	0.087090886	LB	LB	Metribuzin	1566	136.38	6.82E-02
METSULFURON	0.037222222	LB	LB	Metsulfuron Methyl	205	7.63	3.82E-03
MYCLOBUTANIL	0.450942607	LB	LB	Myclobutanil	1261	568.64	2.84E-01
NAPROPAMIDE	0.384546781	LB	LB	Napropamide	411	158.05	7.90E-02

NAPTALAM	0.587980352	LB	LB	Naptalam	4	2.35	1.18E-03
NEEM OIL	0.400383954	LB	LB	Neem Oil	3	1.20	6.01E-04
NICOSULFURON	0.03690208	LB	LB	Nicosulfuron	4805	177.31	8.87E-02
NORFLURAZON	0.030828153	LB	LB	Norflurazon	76	2.34	1.17E-03
ORYZALIN	0.212227173	LB	LB	Oryzalin	6543	1,388.60	6.94E-01
OXADIAZON	0.181725116	LB	LB	Oxadiazon	238	43.25	2.16E-02
OXAMYL	0.72078125	LB	LB	Oxamyl	457	329.40	1.65E-01
OXYFLUORFEN	1.012338009	LB	LB	Oxyfluorfen	242	244.99	1.22E-01
PACLOBUTRAZOL	0.982514667	LB	LB	Paclobutrazol	4027	3,956.59	1.98E+00
PARAQUAT	0.310577425	LB	LB	Paraquat dichloride	137874	42,820.55	2.14E+01
PELARGONIC ACID	0.400383954	LB	LB	Pelargonic Acid	416	166.56	8.33E-02
PENDIMETHALIN	0.558789524	LB	LB	Pendimethalin	30957	17,298.45	8.65E+00
PERMETHRIN	3.34487239	LB	LB	Permethrin	53361	178,485.74	8.92E+01
PETROLEUM DISTILLATE	1.14200855	LB	LB	Petroleum Distillate	5152	5,883.63	2.94E+00
PETROLEUM OIL	0.884364955	LB	LB	Petroleum Oils	10247	9,062.09	4.53E+00
PIPERONYL BUTOXIDE	4.504163141	LB	LB	Piperonyl Butoxide	32422	146,033.98	7.30E+01
PRODIAMINE	0.125840336	LB	LB	Prodiamine	145979	18,370.05	9.19E+00
PROPAMOCARB HCL	0.179701585	LB	LB	Propamocarb Hydrochloride	3415	613.68	3.07E-01
PROPICONAZOLE	1.052037715	LB	LB	Propiconazole	7071	7,438.96	3.72E+00
PROSULFURON	0.400383954	LB	LB	Prosulfuron	203	81.28	4.06E-02
PYRETHRINS	6.73713926	LB	LB	Pyrethrins	249	1,677.55	8.39E-01
PYRIDABEN	0.018712121	LB	LB	Pyridaben	1	0.02	9.36E-06
QUINCLORAC	0.121314591	LB	LB	Quinclorac	6859	832.10	4.16E-01
QUIZALOFOP	4.121052632	LB	LB	Quizalofop-ethyl	16	65.94	3.30E-02
RIMSULFURON	0.0704	LB	LB	Rimsulfuron	5313	374.04	1.87E-01
SETHOXYDIM	3.751133787	LB	LB	Sethoxydim	315	1,181.61	5.91E-01
SIMAZINE	0.08875528	LB	LB	Simazine	200734	17,816.20	8.91E+00
SODIUM CHLORATE	0.024940212	LB	LB	Sodium Chlorate (Bleach)	84	2.09	1.05E-03
STREPTOMYCIN	0.132760814	LB	LB	Streptomycin	13	1.73	8.63E-04
SULFENTRAZONE	0.127556818	LB	LB	Sulfentrazone	3407	434.59	2.17E-01
SULFOMETURON	0.075515924	LB	LB	Sulfometuron Methyl	6	0.45	2.27E-04
SULFUR	0.013084013	LB	LB	Sulfur	38701	506.36	2.53E-01
TEBUCONAZOLE	0.178406772	LB	LB	Tebuconazole	1914	341.47	1.71E-01
TEBUTHIURON	0.074551495	LB	LB	Tebuthiuron	4	0.30	1.49E-04
TEFLUTHRIN	0.400383954	LB	LB	Tefluthrin	901	360.75	1.80E-01
TERBACIL	0.023125	LB	LB	Terbacil	38	0.88	4.39E-04
TERBUFOS	0.400383954	LB	LB	Terbufos	1520	608.58	3.04E-01
THIABENDAZOLE	0.117210258	LB	LB	Thiabendazole	241	28.25	1.41E-02
THIFENSULFURON	0.049333333	LB	LB	Thifensulfuron methyl	3502	172.77	8.64E-02
THIOPHANATE-METHYL	0.117956516	LB	LB	Thiophanate-methyl	24138	2,847.23	1.42E+00

THIRAM	0.219390616	LB	LB	Thiram	695	152.48	7.62E-02
TRIADIMEFON	0.162459575	LB	LB	Triadimefon	1840	298.93	1.49E-01
TRIBENURON METHYL	0.030454341	LB	LB	Tribenuron-methyl	1594	48.54	2.43E-02
TRICLOPYR	0.433012401	LB	LB	Triclopyr or Triclopy	6878	2,978.26	1.49E+00
TRIFLOXYSTROBIN	0.083225592	LB	LB	Trifloxystrobin	267	22.22	1.11E-02
TRIFLURALIN	0.736875308	LB	LB	Trifluralin	125501	92,478.59	4.62E+01
TRINEXAPAC	2.385644844	LB	LB	Trinexapac-ethyl	690	1,646.09	8.23E-01
VINCLOZOLIN	0.055254546	LB	LB	Vinclozolin	11	0.61	3.04E-04
ZINC	0.32858394	LB	LB	Zinc	18	5.91	2.96E-03
ZIRAM	0.030618627	LB	LB	Ziram	1863	57.04	2.85E-02
2,4-DP	0.4	LB	LB	2,4-DP	283	113.20	5.66E-02
Acetic Acid	0.4	LB	LB	Acetic Acid	16813	6,725.20	3.36E+00
Allethrin	0.4	LB	LB	Allethrin	1	0.40	2.00E-04
Anthraquinone	0.4	LB	LB	Anthraquinone	15	6.00	3.00E-03
Bacillus spahericus	0.4	LB	LB	Bacillus spahericus	174	69.60	3.48E-02
Beauveria Bassiana	0.4	LB	LB	Beauveria Bassiana	1	0.40	2.00E-04
Boric Acid	0.4	LB	LB	Boric Acid	58573	23,429.20	1.17E+01
Bromadiolone	0.4	LB	LB	Bromadiolone	1	0.40	2.00E-04
Calcium Hypochlorite	0.4	LB	LB	Calcium Hypochlorite	251	100.40	5.02E-02
Carbofuran	0.4	LB	LB	Carbofuran	2	0.80	4.00E-04
Chlorimuron Ethyl	0.4	LB	LB	Chlorimuron Ethyl	589	235.60	1.18E-01
Cyclohexanecarboxamide	0.4	LB	LB	Cyclohexanecarboxamide	9	3.60	1.80E-03
Dichlorvos	0.4	LB	LB	Dichlorvos	13506	5,402.40	2.70E+00
Dikegulac Sodium	0.4	LB	LB	Dikegulac Sodium	19	7.60	3.80E-03
Diphacinone	0.4	LB	LB	Diphacinone	6	2.40	1.20E-03
Dithiocarbamate	0.4	LB	LB	Dithiocarbamate	8798	3,519.20	1.76E+00
Ethylene Oxide	0.4	LB	LB	Ethylene Oxide	45376	18,150.40	9.08E+00
Flucythrinate	0.4	LB	LB	Flucythrinate	1	0.40	2.00E-04
Flurprimidol	0.4	LB	LB	Flurprimidol	794	317.60	1.59E-01
Fluvalinate	0.4	LB	LB	Fluvalinate	1	0.40	2.00E-04
Fosamine Ammonium	0.4	LB	LB	Fosamine Ammonium	673	269.20	1.35E-01
Halofenozide	0.4	LB	LB	Halofenozide	13	5.20	2.60E-03
Hydroprene	0.4	LB	LB	Hydroprene	205	82.00	4.10E-02
Isoctyl	0.4	LB	LB	Isoctyl	1192	476.80	2.38E-01
Lambda-cyhalothrin	0.4	LB	LB	Lambda-cyhalothrin	1375	550.00	2.75E-01
Linalool	0.4	LB	LB	Linalool	2	0.80	4.00E-04
MCP	0.4	LB	LB	MCP	85625	34,250.00	1.71E+01
Manganese	0.4	LB	LB	Manganese	146	58.40	2.92E-02
Mefluidide	0.4	LB	LB	Mefluidide	138	55.20	2.76E-02
Mercurous Chloride	0.4	LB	LB	Mercurous Chloride	2797	1,118.80	5.59E-01



Methoprene	0.4	LB	LB	Methoprene	84	33.60	1.68E-02
Methoxychlor	0.4	LB	LB	Methoxychlor	124	49.60	2.48E-02
Nicotonic Acid	0.4	LB	LB	Nicotonic Acid	1	0.40	2.00E-04
Octoborate	0.4	LB	LB	Octoborate	18	7.20	3.60E-03
Potassium Salts Fatty Acids	0.4	LB	LB	Potassium Salts Fatty Acids	19141	7,656.40	3.83E+00
Primisulfuron-methyl	0.4	LB	LB	Primisulfuron-methyl	4	1.60	8.00E-04
Prometon	0.4	LB	LB	Prometon	325	130.00	6.50E-02
Propetamphos	0.4	LB	LB	Propetamphos	7374	2,949.60	1.47E+00
Propoxur	0.4	LB	LB	Propoxur	5	2.00	1.00E-03
Pyrethrum	0.4	LB	LB	Pyrethrum	38	15.20	7.60E-03
Siduron	0.4	LB	LB	Siduron	343	137.20	6.86E-02
Spinosad	0.4	LB	LB	Spinosad	55	22.00	1.10E-02
Sulfuryl Fluoride	0.4	LB	LB	Sulfuryl Fluoride	183620	73,448.00	3.67E+01
Sumithrin	0.4	LB	LB	Sumithrin	8	3.20	1.60E-03
Tetrachloroisophthalonitrile	0.4	LB	LB	Tetrachloroisophthalonitrile	6305	2,522.00	1.26E+00
Triazin-3-one	0.4	LB	LB	Triazin-3-one	6	2.40	1.20E-03
Trichlorfon	0.4	LB	LB	Trichlorfon	1651	660.40	3.30E-01
Triisopropanolamine	0.4	LB	LB	Triisopropanolamine	2485	994.00	4.97E-01
Vernolate	0.4	LB	LB	Vernolate	461	184.40	9.22E-02
Zinc Phosphide	0.4	LB	LB	Zinc Phosphide	27	10.80	5.40E-03

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

### Harvested Acres by County and Percent of Total Harvested

State and County FIPS Code	Harvested Acres	Percent of Total Acres Harvested
24001	800.00	0.05%
24003	9500.00	0.56%
24005	32100.00	1.90%
24009	6600.00	0.39%
24011	122500.00	7.24%
24013	70100.00	4.14%
24015	46450.00	2.75%
24017	14000.00	0.83%
24019	496000.00	29.31%
24021	88200.00	5.21%
24023	5200.00	0.31%
24025	219750.00	12.99%
24027	5200.00	0.31%
24029	116500.00	6.89%
24031	16100.00	0.95%
24033	6100.00	0.36%
24035	141650.00	8.37%
24037	22800.00	1.35%
24039	45900.00	2.71%
24041	74600.00	4.41%
24043	32600.00	1.93%
24045	48600.00	2.87%
24047	70800.00	4.18%
24510	0.00	0.00%
<b>STATE TOTAL</b>	<b>1692050.00</b>	<b>100.00%</b>

### Emissions Calculation

#### Equations:

$$E_{\text{pest}} = \frac{(AI \times EF_{\text{pest}})}{2000}$$

where:

AI = Active Ingredient (lb. / yr.)

EF<sub>pest</sub> = Emission Factor for particular pesticide (lb. VOC / lb. AI)

#### Sample Calculations:

Pesticide – Acephate with 6302 pounds of active ingredient used in Maryland.

EPA's EF for Acephate is 0.2750 (lb. VOC / lb. AI)

$$E_{\text{Acephate}} = \frac{(6302 \times 0.2750)}{2000} = 0.87 \text{ tons of Voc year}$$

After calculating VOCs for each pesticide a portion was distributed across counties that harvested crops using the table above containing percentages for total harvested acres. Then VOCs were summed in each county. The types of crops were summed in each county by application a percentage was derived and assigned the appropriate SCC code for soil or surface.

**2014 Pesticide Percentage Application Table of Maryland**

State and County FIPS Code	SOIL CORN/SOYBEAN	SURFACE WHEAT/BARLEY	2461800001 % SOIL	2461800002 % SURFACE
24001	4,000	0	100%	0%
24003	19,400	0	100%	0%
24005	66,600	0	100%	0%
24009	13,800	0	100%	0%
24011	172,500	84,700	67%	33%
24013	120,600	36,100	77%	23%
24015	86,800	10,850	89%	11%
24017	28,500	0	100%	0%
24019	142,400	76,000	65%	35%
24021	151,400	65,550	70%	30%
24023	14,000	0	100%	0%
24025	71,300	4,950	94%	6%
24027	11,200	0	100%	0%
24029	176,600	116,700	60%	40%
24031	41,300	18,000	70%	30%
24033	13,000	0	100%	0%
24035	220,400	141,150	61%	39%
24037	47,300	0	100%	0%
24039	70,400	56,500	55%	45%
24041	147,700	7,900	95%	5%
24043	84,600	23,000	79%	21%
24045	97,400	12400	89%	11%
24047	143,800	0	100%	0%
24510	0	0	0	0

Total VOCs from Soil applied pesticides for Harford County were estimated to be:

$E_{\text{HarfordSoil}} = 2.12$  tons per year

Pesticides-Soil for Harford County was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 312

Daily adjusted  $E_{\text{HarfordSoil}_{\text{da}}} = (E_{\text{HarfordSoil}} / 312) * (\text{SAF} / \text{POS})$

$E_{\text{HarfordSoil}_{\text{da}}} = (2.12 / 312) * (0.25 / 0.25) = \mathbf{6.78E-03 \text{ VOC tons/day}}$

#### 4.1.2.13 Commercial/Consumer Solvent Use

SCC: 24 60 100 000 (Personal Care)  
24 60 200 000 (Household)  
24 60 400 000 (Automotive Aftermarket)  
24 60 500 000 (Coatings and Related)  
24 60 600 000 (Adhesives and Sealants)  
24 60 800 000 (FIFRA - Regulated)  
24 60 900 000 (Miscellaneous Products)

##### **Description**

Certain commercial/consumer uses of products containing volatile organics cannot easily be identified by questionnaires, surveys or other inventory procedures yielding locale-specific emission estimates. This category includes the following sources: household products, toiletries, aerosol products, rubbing compounds, windshield washing fluid, polishes, waxes, non-industrial adhesives, space deodorants, moth control agents and laundry detergents.

##### **Pollutants**

VOC and HAPs

##### **Method and**

##### **Data Sources**

The recommended emission factor that combines emissions from all these sources is 7.84 pounds VOC per person per year, from EIIP Volume III, Area Sources, Preferred and Alternate Methods (July, 1997). This emission factor excludes non-reactive VOC and takes into account more recent volatility levels based on product reformulation, than does AP-42, Fifth Edition. MDE used an activity level of 7 days a week and no seasonal adjustment factor as suggested in Table 5.8-1 in Procedures.

##### ***Activity***

The U.S. Census Bureau reports and collects population statistics for the counties of Maryland. U.S. Census Bureau Internet address: (<http://www.census.gov>).

***Emission Factors:***

Commercial and Consumer Products (All) 7.84 lbs. voc/person/year

<b>Original EPA Per Capita VOC Emission Factors<sup>33, 34</sup></b>		
<b>Industry</b>	<b>SCC</b>	<b>1996 Per Capita VOC Emission Factor (lbs. voc/person/year)</b>
Personal Care Products	2460100000	2.32
Household Products	2460200000	0.79
Automotive Aftermarket Products	2460400000	1.36
Coatings and Related Products	2460500000	0.95
Adhesives and Sealants	2460600000	0.57
FIFRA - Regulated Products	2460800000	178
Miscellaneous Products	2460900000	0.07
Total (All Commercial & Consumer Products) =		7.84

**Point Source  
Adjustments**

No subtraction of emissions from point sources is necessary.

**Adjustment for  
Controls**

Federal regulations provide a 20 percent reduction in emissions from a 3.9 lbs. voc/person subset of the total commercial and consumer products category.

Commercial and consumer products are regulated by three separate category measures. The three control measures are; the original Federal regulations, effective, OTC Phase I controls, effective, and OTC Phase II controls effective. Each of the control measures are discussed briefly below:

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<sup>33</sup> Source: Adapted from EPA, 1995

<sup>34</sup> Emission factors are based on usage and population data for 1990.

**Control Set 1:** Federal regulations provide a 20 percent reduction in emissions from 3.9 lbs. voc/person subset of the total commercial and consumer products category. This results in following controls per commercial and consumer solvent subcategory:

<b>Per Capita VOC Emission Factors After Federal Rule</b>		
<b>Product Category</b>	<b>SCC</b>	<b>Emission Factor (lbs. VOC/person/year)c</b>
Personal Care Products	24601000000	2.08
Household Products	24602000000	0.63
Automotive Aftermarket Products	24604000000	1.13
Adhesives and Sealants	24606000000	0.51
FIFRA-Regulated Products	24608000000	1.68
Coatings and Related Products	24605000000	0.95
Miscellaneous Products	24609000000	0.07
Total (All Commercial & Consumer Products) =		7.06

**Control Set 2:** OTC Phase I rule was based on the five CARB consumer products rules and further emission reductions of 14.20 % beyond federal regulation provided in control set one above. This results in the following controls per commercial and consumer solvent subcategory:

<b>Per Capita VOC Emission Factors After OCT Phase 1</b>		
<b>Product Category</b>	<b>SCC</b>	<b>Emission Factor (lbs. VOC/person/year)c</b>
Personal Care Products	24601000000	1.79
Household Products	24602000000	0.54
Automotive Aftermarket Products	24604000000	0.98
Adhesives and Sealants	24606000000	0.43
FIFRA-Regulated Products	24608000000	1.44
Coatings and Related Products	24605000000	0.82
Miscellaneous Products	24609000000	0.07
Total (All Commercial & Consumer Products) =		6.06

**Control Set 3:** OTC Phase II rule was based on the five CARB consumer products rules and further emission reductions of 2.0 % beyond federal regulation provided in control set one above. This results in the following controls per commercial and consumer solvent subcategory:

**Per Capita VOC Emission Factors After OCT Phase 2**

<b>Product Category</b>	<b>SCC</b>	<b>Emission Factor (lbs. VOC/person/year)c</b>
Personal Care Products	24601000000	1.7529695
Household Products	24602000000	0.5268063
Automotive Aftermarket Products	24604000000	0.9571004
Adhesives and Sealants	24606000000	0.4269687
FIFRA-Regulated Products	24608000000	1.4084942
Coatings and Related Products	24605000000	0.8047066
Miscellaneous Products	24609000000	0.0581146
Total (All Commercial & Consumer Products) =		5.9351604

**Spatial and  
Temporal  
Allocations**

*Spatial*

Data for spatial allocation is not available for this source.

*Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

**Emissions  
Calculation**

The per capita equation used to estimate emissions from commercial and consumer solvents is:

$$E_{CC} = \frac{[POP_i \times EF_{CC}] - [(POP_i \times CS_{CC}) \times CE_{CC}]}{2000}$$

Where:

- $E_{CC}$  = VOC emissions in tons per day from commercial and consumer solvents
- $POP_i$  = 2014 population of county i
- $EF_{CC}$  = VOC emission factor for commercial and consumer solvents (7.84 lbs. voc/person)
- $CS_{CC}$  = Controlled subset of commercial and consumer solvents (3.9 lbs. voc/person)
- $CE_{CC}$  = Control efficiency for controlled subset of commercial and consumer solvents (20%)

2014 Sample Calculation Personal Care Products Consumer Solvent Use (Anne Arundel County)  
VOC Emission Factors after OCT Phase 2

$$E_{\text{PersonalCare}} = \frac{[(560,133^{35}) \times (1.7529695)]}{2000}$$

$$E_{\text{PersonalCare}} = \mathbf{490.95 \text{ tons VOC per year for Anne Arundel County}}$$

Personal Care Products for Anne Arundel County was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 365

$$\text{Daily adjusted } E_{\text{PersonalCare}_{\text{da}}} = (E_{\text{PersonalCare}} / 365) * (\text{SAF} / \text{POS})$$

$$E_{\text{PersonalCare}_{\text{da}}} = (490.95 / 365) * (0.25 / 0.25) = \mathbf{1.35E+00 \text{ VOC tons/day}}$$

#### 4.1.2.14 Barge, Tank, Tank Truck, Rail Car and Drum Cleaning

**SCC: 24 61 160 000**

The EPA explained to MDE staff that the agency has not developed an emission factor for this category. The EPA also stated that most barge, tank truck, rail car and drum cleaning is done by steam cleaning and the residue goes to industrial and public waste disposal treatment plants. It is impossible to separate this category's portion of the treatment plant emissions. EPA considers the emissions from this category to be insignificant. Emissions from this category are calculated for the appropriate facilities in the point source inventory.

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<sup>35</sup> 2014 Population data from U.S. Bureau of Census, Population Estimates Branch



### 4.1.3 BIOPROCESS EMISSIONS SOURCES

#### 4.1.3.1 Bakeries

SCC: 23 02 050 000

##### **Description**

Bakeries emit VOC, primarily ethanol formed by yeast fermentation of bread or dough, during the baking process. Ethanol is emitted through a vent, along with combustion product gases. Large commercial bakeries are inventoried as point sources. In-store and neighborhood bakeries have lower emissions, and thus are considered area sources.

##### **Pollutants**

VOC

##### **Method and Data Sources**

MDE staff followed methodology described in an EIIP Area Source Category Method Abstract – Bakeries, dated June 1999 and an emission factor of 0.11 tons voc per employee cited in an April 24, 1992 Technical Memorandum prepared by Radian Corporation for EPA. Applicable point source emissions (those within the same NAICS) taken from the MDE/ARA registration files have been subtracted from the emissions calculated by employee.

##### *Activity*

Employee numbers were taken from County Business Patterns 2013 - Maryland, NAICS 311812, Bakery Products and 311811, Retail Bakeries (see Appendices). Some county employment data is represented by a letter code indicating a range for the number of employees for that NAICS. In this case the arithmetic average number of employees per letter code per county was adjusted so that the state total employment in a NAICS matched the sum of the number of employees reported per county.

##### *Emission Factor*

An emission factor of 0.11 tons voc per employee cited in an April 24, 1992 Technical Memorandum prepared by Radian Corporation for EPA was utilized.

##### **Point Source Adjustments**

Bakery emissions from facilities identified as point sources (NAICS 311812 and 311811) were subtracted from the area source inventory to avoid double counting.

##### **Adjustment for Controls**

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

The equation used to estimate emissions from bakeries is:

### Equation:

$$E_{BAK} = EF_{BAK} \times EMP_j$$

Where:

$E_{BAK}$  = VOC emissions from small bakeries in tons per year

$EF_{BAK}$  = per employee emission factor for bakeries

$EMP_j$  = number of employees at small (less than 20 employees), bakeries in county j

### Point Source Adjustments

$$E_{BAK-ADJ} = EF_{BAK} \times EMP_{j \text{ Pt. Sources}}$$

Where:

$E_{BAK-ADJ}$  = Point source adjusted bakery emissions

$EF_{BAK}$  = per employee emission factor for bakeries

$EMP_{j \text{ Pt. SourcesAd}}^{36}$  = Point Source Adjustment was done by subtracting employment for Baltimore City related sources before calculating emissions.

### 2014 Sample Calculation for Bakery VOC Emissions (Baltimore City):

Employees in NAICS 311811 and 311812 in Baltimore City:

$$EMP_{\text{Pt.BCity}} = 1,160 \text{ emp}$$

Employees in Baltimore City Bakeries:

$$EMP_{\text{BCity}} = 951.22$$

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<sup>36</sup> Point Source Reduction from MDE ARA registration files

$$EMP_{BC \text{ Pt. SourcesAd}} = 1,160 - 951.22 = 208.78 \text{ emp}$$

$$E_{BAK} = EF_{BAK} \times EMP_{j \text{ Pt. SourcesAd}}$$

$$E_{BAK} = 0.11 \times 208.78$$

$$E_{BAK} = \mathbf{22.97 \text{ tons voc per year}}$$

Bakeries for Baltimore City was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 260

Daily adjusted  $E_{BAKda} = (E_{BAK} / 260) \times (SAF / POS)$

$$E_{BAKda} = (22.97 / 260) \times (0.25 / 0.25) = \mathbf{8.83E-02 \text{ VOC tons/day}}$$

#### 4.1.3.2 Breweries

SCC: 23 02 070 001

##### **Description**

During the fermentation process, breweries emit ethanol and other VOCs. Although large-scale commercial breweries have been inventoried as point sources, there are microbreweries and brewpubs that emit lower levels of VOCs and therefore must be inventoried as area sources. These smaller breweries emit most of their VOCs from the fermentation room, not the brew kettle as is the case with the large breweries.

##### **Pollutants**

VOC

##### **Method and Data Sources**

MDE/ARA staff surveyed small brewpubs and microbreweries in Maryland.

##### *Activity*

The survey questionnaire asked the brewing facilities to provide MDE/ARA with the amount of barrels brewed per month for the calendar year 2014. For those facilities that reported only annual production amounts, an average monthly value was used.

##### *Emission Factor*

Emissions from the small breweries were calculated using an emission factor cited in a February 5, 1992 Technical Memorandum prepared by Radian Corporation for EPA. This emission factor is 56.743 lbs. voc per 1000 barrels produced. One barrel equals 31 gallons. Note: Emf conversion is:  $56.743 \text{ lb VOC}/1000 \text{ barrels} = 0.05674 \text{ lb/barrel} = 0.0018303 \text{ lb/gal}$ .

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

##### **Adjustment for Controls**

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

The equation used to estimate emissions from bakeries is:

$$E_{\text{BREW}} = \frac{EF_{\text{BREW}} \times BP_j}{2000}$$

Where:

$E_{\text{BREW}}$  = VOC emissions from small bakeries in tons per year  
 $EF_{\text{BREW}}$  = emission factor for small breweries  
 $BP_j$  = 2014 beer production in barrels

### 2014 Sample Calculation for Small Brewery VOC Emissions (Howard County):

Number barrels produced by microbreweries in Howard County = 109,255 barrels

$$E_{\text{BREW}} = \frac{0.05674 \times 109,255}{2000}$$

**$E_{\text{BREW}} = 3.10$  tons voc per year**

Breweries for Howard County was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 260

Daily adjusted  $E_{\text{BREWda}} = (E_{\text{BREW}} / 260) \times (\text{SAF} / \text{POS})$

$E_{\text{BREWda}} = (3.10 / 260) \times (0.25 / 0.25) = 1.19\text{E-}02$  VOC tons/day

#### 4.1.3.3 Wineries

SCC: 23 02 070 005

##### **Description**

Ethanol emissions from wineries occur during the fermentation process. The emissions vary, depending upon the type of wine (red vs. white), the fermentation temperature and the sugar content of the grapes used.

##### **Pollutants**

VOC

##### **Method and Data Sources**

MDE used the methods and procedures documented in AP-42<sup>37</sup>, Chapter 12, Beverages, Section 2, Wines and Brandies dated September 1995. AP42 Chapter 9.12.2

##### *Activity*

The U.S. Department of the Treasury's Alcohol and Tobacco Tax and Trade Bureau, State of Maryland Comptroller's Office, and direct survey of most of Maryland's wineries revealed that approximately 430,792 gallons of wine was produced in 2014. The survey suggests that 215,703 gallons of white and 215,836 gallons of red wine were actually produced.

##### *Emission Factor*

Table 9.12.2-1 of AP-42 shows that ethanol emissions are 1.8 lbs. voc per 1000 gallons of white wine fermented and 4.6 lbs. voc per 1000 gallons of red wine fermented.

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

##### **Adjustment for Controls**

No controls are available for this source category.

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<sup>37</sup> AP42, Chapter 9.12.2: Food and Agricultural Industries, Beverages, Wines and Brandies

## Spatial and Temporal Allocations

### *Spatial*

*Data for spatial allocation is not available for this source.*

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation State Total

**Emission Factors:**      **red = 0.0046 lb voc per gal**  
                                 **white = 0.0018 lb voc per gal**

White wine EMtotal = (215,703 gal x **0.0018 lb voc per gal**) / 2000

**White wine EMtotal = 0.194 tons voc per year**

Red wine EMtotal = (215,836 gal x **0.0046 lb voc per gal**) / 2000

**Red wine EMtotal = 0.496 tons voc per year**

Using the above figures, the production of wine by all Maryland wineries in 2014 resulted in the production of **0.691 tons voc per year**

## Daily calculation can be made for each county (see example below)

Anne Arundel\_County Winery VOC total was:

**EM<sub>Anne Arundel</sub> = 1.82E-02 tons voc per year**

Wineries\_for Anne Arundel\_County was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 260

Daily adjusted **EM<sub>Anne Arundel</sub><sub>da</sub> = (EM<sub>Anne Arundel</sub> / 260)\*(SAF / POS)**

**EM<sub>Anne Arundel</sub><sub>da</sub> = (1.82E-02 / 260)\*(0.25 / 0.25) = 7.01E-05 VOC tons/day**

#### 4.1.3.4 Distilleries

##### **Description**

Ethanol emissions are the largest component of the VOCs emitted from distilleries. Distilleries produce both grain alcohol for industrial and fuel purposes, and distilled spirits such as whiskey and brandy for consumption purposes. The emissions points in the distilled spirits manufacturing process are likely to be the same as in breweries and wineries, with the aging process as an additional source of emissions. During the aging process, ethanol and water seep through the wooden barrels used to age whiskey and evaporate into the air. Aging and barrel emptying are the major sources of VOC emissions from whiskey production.

##### **Pollutants**

VOC

##### **Method and Data Sources**

MDE staff indicated that no distilleries below the 10 ton per year point source cutoff operated in the inventory area during 2014. Fugitive VOC emissions from the aging process at large distillery operations can be substantial and will be included in the point source inventory.

#### 4.1.4 CATASTROPHIC/ACCIDENTAL RELEASES

##### 4.1.4.1 Oil Spills

SCC: 28 30 000 000

##### **Description**

Oil spills involve oil tanker accidents, tanker truck accidents, and spills and blowouts from oil rigs or pipelines in coastal and inland areas. Because a wide range of fuel types may be spilled, the nature and quantity of emissions can vary. Emissions are also influenced by the clean-up procedure and by dispersion and weathering processes.

Oil spill evaporation produces local VOC emissions. If spills catch fire, additional SO<sub>2</sub>, CO, CO<sub>2</sub>, PM, NO<sub>x</sub> and VOC emissions may result. Other potentially toxic chemical compounds may also be released as a result of chemical cleanup

##### **Pollutants**

VOC

##### **Method and Data Sources**

###### *Activity*

Data on oil spills in Maryland were obtained from MDE's Oil Control's Emergency Response Program. They provided MDE/ARA staff a yearly report of all oil spills that



occurred in Maryland during 2014. Spills around Maryland totaled to about 129,286 gallons.

#### ***Emission Factor***

MDE staff used an emission factor recommended to the Metropolitan Washington Council of Governments by E.H. Pechan and Associates, Inc., the contractor used by MWCOG to prepare their 1990 base year inventory. This emission factor was based on a California Air Resources Board (CARB), study of air emissions from large oil spills (over 10 million gallons of oil). Based on this study, a range of evaporation estimates for reactive organic gases was found to be between 5,500 and 13,000 tons. Using this information, an average emission factor was calculated to be 0.0000925 tons VOC per gallon of oil spilled.

#### **Point Source Adjustments**

No point source adjustments were made.

#### **Adjustment for Controls**

No controls are available for this source category.

#### **Spatial and Temporal Allocations**

##### ***Spatial***

Data for spatial allocation is not available for this source.

##### ***Temporal***

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

#### **Emissions Calculation**

The equation used to estimate emissions from oil spills:

$$E_{\text{Oil Spills}} = EF_{\text{Oil Spills}} \times GOS_i$$

Where:

$$E_{\text{Oil Spills}} = \text{VOC emissions from oil spills in tons voc per year}$$

$EF_{\text{Oil Spills}}$  = tons of pollutant per gallon of oil spilled

$GOS_i$  = gallons of oil spilled in county i

2014 Sample Calculation for Oil Spill VOC Emissions (Baltimore County):

Annual Emissions:

Number gallons oil spilled Baltimore County 2014: **14,270** gallons

$E_{\text{Oil Spills}}$  =  $(0.0000925) \times (14,270)$

**$E_{\text{Oil Spills}}$  = 1.32 tons voc per year**

Oil Spills for Baltimore County was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 312

Daily adjusted  $E_{\text{Oil Spills}_{da}} = (E_{\text{Oil Spills}} / 312) \times (SAF / POS)$

$E_{\text{Oil Spills}_{da}} = (1.32 / 312) \times (0.25 / 0.25) = \mathbf{4.23E-03 \text{ VOC tons/day}}$

#### 4.1.4.2 Leaking Underground Storage Tanks / Soil Remediation

SCC: 26 60 000 000

##### **Description**

Many underground storage tanks (USTs) are over 15 years old and are constructed of steel, which may rust over time. The underground piping connected to these tanks also has the potential to leak. Leaking USTs (leaking underground storage tank sites or LUST sites) are of concern because they may result in the contamination of drinking water, subsurface soils, and ground and surface water, and may emit toxic and/or explosive vapors. The contaminated soil and water may also emit VOC.

##### **Pollutants**

VOC

##### **Method and Data Sources**

###### *Activity*

Emission calculation methods were taken from EIIP, AREA SOURCE CATEGORY METHOD ABSTRACT - REMEDIATION OF LEAKING UNDERGROUND STORAGE TANKS, 2001. The numbers of LUST sites by county were obtained from MDE's Oil Control Program. No seasonal variation was assumed. Each remediation event takes an average of 30 days; during this period emissions are released.

###### *Emission Factor*

An emissions factor of 28 lbs of VOC per day per site was used.

##### **Point Source Adjustments**

No point source adjustments were made.

##### **Adjustment for Controls**

No controls are available for this source category.

##### **Spatial and Temporal Allocations**

***Spatial***

Data for spatial allocation is not available for this source.

***Temporal***

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

**Emissions  
Calculation**

$$E_{LUST} = \frac{LS1_j \times EF \times 30 \text{ day}}{2000 \text{ lb./ton}}$$

where:

$E_{LUST}$  = VOC emissions in tons per year from leaking underground storage tanks

$LS1_j$  = number of remediation site(s) in county j

$EF$  = emissions factor

2014 Sample Calculation for Leaking Underground Storage Tanks (Anne Arundel County)

No seasonal variation assumed

$$E_{LUST-AA} = \frac{52 \times 28 \text{ VOC lbs./day} \times 30 \text{ day}}{2000 \text{ lb./ton}}$$

$$E_{LUST-AA} = \mathbf{21.84 \text{ tons VOC per year}}$$

Leaking Underground Storage Tanks for Anne Arundel was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted  $E_{LUST-AAda} = (E_{LUST-AA} / 365) \times (SAF / POS)$

$$E_{LUST-AAda} = (\mathbf{21.84} / 365) \times (0.25 / 0.25) = \mathbf{5.98E-02 \text{ VOC tons/day}}$$

#### **4.1.5 SOLID WASTE DISPOSAL, TREATMENT, AND RECOVERY**

##### **4.1.5.1 On-site Incineration**

SCC: 2601020000

##### **Description**

On-site incineration is the confined burning of waste on a small scale by institutions such as hospitals, nursing homes, veterinary offices, funeral homes and laboratories. Large-scale incineration is included in the point source inventory.

##### **Pollutants**

VOC, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, PM<sub>2.5</sub>, and HAPS,

##### **Method and Data Sources**

In Maryland incinerators are regulated under COMAR 26.11.08. Maryland began regulating incinerators for control of particulates in the 1970's. In AQCRs III and IV single chamber incinerators, the type that would be used for on-site residential incineration, were banned. All such incinerators were rendered inoperative under the direction of the Maryland Department of the Environment (MDE). Over 1700 small incinerators were eliminated under this requirement.

In the other Maryland counties included in the Washington, D.C. nonattainment area, incineration of trash in on-site incinerators is prohibited except in areas where public trash collection is not provided.

COMAR 26.11.08.09 now requires all incinerators to obtain a permit to operate and any person who owns or operates an incinerator must obtain certification from MDE and renew the certification annually.

MDE/ARA maintains a registry of all incinerators within the State. Because of the requirements prohibiting single chamber incinerators, the requirement for a permit to operate, and the operator certification requirements, staff used the sum of the incinerators in the registry as representing the total area source emissions from incinerators of all types emitting less than 10 tons/VOC, 100 tons/yr CO and 50 tons per year NO<sub>x</sub>. Incinerators from the registry with emissions above these thresholds are included in the point source inventory.

No seasonality is applied. The emission factor is chosen by type of incinerator: waste, pathological, hazardous, industrial, special medical, sewage sludge and municipal waste combustors. The burn rate is determined by stack test or AP-42. Hours of operation and tons of waste per day are supplied by the operator.

#### 4.1.5.2 Publicly Owned Treatment Works (POTWs)

SCC: 26 30 020 000

##### **Description**

Wastewater is usually collected and treated at a public waterworks facility to be filtered and reused or discharged into surrounding waterways. While the wastewater is held and being treated VOCs are released into the air due to contaminants and byproducts in the water.

##### **Pollutants**

VOC

##### **Method and Data Sources**

The emissions from these facilities were calculated based on the method described in EPA EIIP II Chapter 5 Section 5.1.

##### *Activity*

The amount of actual flow for each POTW in Maryland was supplied by the MDE's Wastewater Management Administration (see Appendices). MDE staff multiplied this amount by the emission factor listed to get VOC emissions from each POTW. The individual POTW emissions were then totaled by county.

##### *Emission Factor*

EPA and ERTAC supplied MDE with a new emission factor of 0.44 pounds voc per million gallons of actual flow of wastewater discharged.

##### **Point Source Adjustments**

No point source adjustments were made

##### **Adjustment for Controls**

A seasonal adjustment factor of 1.4 was used when calculating ozone season or daily emissions not yearly.

##### **Spatial and Temporal Allocations**

##### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## **Emissions Calculation**

The equation used to estimate yearly emissions from POTWs is:

$$E_{\text{POTWY}} = \frac{\text{ADF}_{\text{IJ}} \times \text{EF}_{\text{POTW}} \times 365 \text{ days}}{2000}$$

For seasonal emissions:

$$E_{\text{POTWS}} = \frac{\text{ADF}_{\text{IJ}} \times \text{EF}_{\text{POTW}} \times \text{SAF}_{\text{POTW}}}{2000}$$

Where:

$E_{\text{POTWY}}$	=	VOC emissions in tons VOC per year from POTWs
$\text{ADF}_{\text{IJ}}$	=	Actual daily flow into POTW i in county j
$\text{EF}_{\text{POTW}}^{38}$	=	VOC emission factor for POTWs
$\text{SAF}_{\text{POTW}}^{39}$	=	Seasonal adjustment factor for peak ozone season which is 1.4 Plant operation is 365 days a year

### 2014 Sample Calculation for POTW VOC Emissions (Howard County):

Howard County has only one POTW,  
Little Patuxent Treatment Plant statistics<sup>40</sup>:  
Actual daily flow (MGD)<sup>41</sup>: 20.233

$$E_{\text{POTWY}} = \frac{(20.233) \times (0.44 \text{ lbs.voc / gal}) \times 365 \text{ days}}{2000}$$

$$E_{\text{POTWY}} = 1.625 \text{ tons voc / year}$$

POTW for Howard County was found to have a

SAF = seasonal adjustment factor of 0.35

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted  $E_{\text{POTWYda}} = (E_{\text{POTWY}} / 365) \times (\text{SAF} / \text{POS})$

$$E_{\text{POTWYda}} = (1.625 / 365) \times (0.35 / 0.25) = 6.23\text{E-03 VOC tons/day}$$

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<sup>38</sup> Emission factor taken from Procedures, Section 3.5.1

<sup>39</sup> Seasonal adjustment factor taken from Procedures, Table 5.8.1

<sup>40</sup> Supplied by the Maryland Water Management Administration (see Appendices)

<sup>41</sup> MGD : Million Gallons per Day

#### 4.1.5.3 Open Burning – Land Clearing Debris

SCC: 26 10 000 500

##### **Description**

Open burning of land clearing debris refers to the clearing of land for new construction and the burning of organic material (i.e., trees, shrubs and other vegetation). The clearing of land for the construction of new buildings and highways often results in debris consisting of trees, shrubs, and brush. This debris may be burned in place but it is usually collected in piles for burning. The burning of land clearing wastes may be practiced by private individuals, corporations, and government agencies (e.g., highway construction department). There are no federal laws restricting the open burning of land clearing wastes, although state or local laws may exist.

Residential open burning without a permit is prohibited in Maryland COMAR 26.11.07, where trash and leaf collection is available. The basic difference between the regulation as it applies to counties in AQCRs III and IV and the rest of the state is the requirements under which the burn takes place, i.e., minimum setbacks from property lines, etc. In the more rural counties, areas with no available trash collection are more prevalent. MDE adopted a regulation that prohibits open burning during the peak ozone period (June to August). The seasonal prohibition only affects those counties that lie within serious and severe ozone nonattainment areas. Certain exemptions must be in place however so as not to adversely affect agriculture or restrict fire training and recreational activities. Commercial open burning without a permit is prohibited in Maryland.

##### **Pollutants**

VOC, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub> and PM<sub>2.5</sub>

##### **Method and**

##### **Data Sources**

The method used to calculate emissions, is presented in EIIP<sup>42</sup>, Chapter 16, Open Burning (Revised Final 2001).

##### ***Activity***

The number of acres disturbed by residential, non-residential and roadway construction are estimated and then these values are added together to obtain a county-level estimate of total acres disturbed by land-clearing. County-level emissions from land clearing debris are then calculated by multiplying the total acres disturbed by construction by a weighted loading factor and emission factor.

The BELD database in BEIS was used to determine the number of acres of hardwoods, softwoods, and grasses in each county. Average loading factors were weighted according to the percent contribution of each type of vegetation class to the total land area for each county. The loading factors for slash hardwood and slash softwood were further adjusted

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<sup>42</sup> Emission Inventory Improvement Program



by a factor of 1.5 to account for the mass of tree that is below the soil surface that would also be subject to burning once the land is cleared.

Fuel loading factors are as follows:

Fuel Type	Fuel Load Factor (tons/acre)	Adjusted Load Factor (tons/acre)
Hardwood	66	99
Softwood	37.5	56.25 rounded by EPA to 57
Grass	4.5	4.5

Average fuel loading factors were calculated as follows:

$$LF_{OB-LCD-CO_i} = \frac{(Acres_{HW-CO_i} \times LF_{Adj-HW}) + (Acres_{SW-CO_i} \times LF_{Adj-SW}) + (Acres_{GR-CO_i} \times LF_{Adj-GR})}{Acres_{TOT-CO_i}}$$

$LF_{OB-LCD-CO_i}$	=	Average Load Factor in County i
$Acres_{HW-CO_i}$	=	Acres of hardwood in County i from BELD database
$LF_{Adj-HW}$	=	Adjusted Load Factor for Hardwood
$Acres_{SW-CO_i}$	=	Acres of softwood in County i from BELD database
$LF_{Adj-SW}$	=	Adjusted Load Factor for Softwood
$Acres_{GR-CO_i}$	=	Acres of grasses in County i from BELD database
$LF_{Adj-GR}$	=	Adjusted Load Factor for Grasses
$Acres_{TOT-CO_i}$	=	Total Land Acres in County i

### ***Emission Factors***<sup>43</sup>

Emission factors in lbs. /ton were taken from AP-42 Table 2.5-1, Emission Factors for Open Burning of Municipal Refuse and are listed below:

VOC	11.6	Lbs. VOC/ ton
SO <sub>x</sub>	0.0	Lbs. SO <sub>x</sub> / ton
CO	169	Lbs. CO/ ton
PM <sub>10</sub>	17	Lbs. PM <sub>10</sub> / ton
PM <sub>2.5</sub>	17	Lbs. PM <sub>2.5</sub> / ton
NO <sub>x</sub>	5	Lbs. NO <sub>x</sub> / ton

Ozone Season Daily (OSD) emissions calculated by multiplying annual emissions by 0.25 then dividing by 92.

### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

<sup>43</sup> Emissions factors for VOC NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> were obtained from AP-42 Table 2.5-1.

## Adjustments for Controls

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

Emissions are temporally allocated to months or seasons by the number of permits issued per month per county.

## Emissions Calculation

### *Annual Emissions*

$$E_{OB-LCD-Ann} = \frac{AD_{R-NR-Road} \times LF_{OB-LCD-CO_i} \times EF_{OB_i}}{2000}$$

$E_{OB-LCD-Ann}$  = Annual emissions from open burning of land clearing debris  
 $AD_{R-NR-Road}$  = Acres disturbed from Residential, Non-residential and Roadway construction in the county  
 $LF_{OB-LCD-CO_i}$  = Average Load Factor in County i  
 $FL_{HW-SW-G}$  = Fuel loading factor for hardwoods, softwoods, and grasses  
 $EF_{OB_i}$  = Open burning emission factor for pollutant i in lbs. / ton

### *Ozone Season Daily Emissions*

$$E_{OB-LCD-Day} = \frac{E_{OB-LCD-Ann}}{4 \times 92}$$

$E_{OB-LCD-Day}$  = Ozone Season Daily emissions from open burning  
 $E_{OB-LCD-Ann}$  = Annual emissions from open burning of land clearing debris  
4 = Number of seasons in the year  
92 = Days in the season

#### 4.1.5.4 Open Burning – Residential Municipal Solid Waste

SCC: 26 10 030 000

##### **Description**

Open burning is the unconfined burning of wood, leaves, land clearing debris, household waste, and agricultural crop waste. Household waste often referred to as residential municipal solid waste (MSW), is a term for nonhazardous refuse produced by households (e.g., paper, plastics, metals, wood, glass, rubber, leather, textiles, and food wastes).

Open burning without a permit is prohibited in Maryland where trash and leaf collection is available, COMAR 26.11.07. The basic difference between the regulation as it applies to counties in AQCRs III and IV and the rest of the state is the requirements under which the burn takes place, i.e., minimum setbacks from property lines, etc. In the more rural counties, areas with no available trash collection are more prevalent. MDE adopted a regulation that prohibits open burning during the peak ozone period (June to August). The seasonal prohibition only affects those counties that lie within serious and severe ozone nonattainment areas. Certain exemptions must be in place however so as not to adversely affect agriculture or restrict fire training and recreational activities.

##### **Pollutants**

VOC, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, PM<sub>2.5</sub>, and HAPs

##### **Method and**

##### **Data Sources**

The method used to calculate emissions is presented in a study/survey conducted by the Mid-Atlantic/Northeast Visibility Union (MANE-VU), titled “Open Burning in Residential Areas Emissions Inventory Development Report.”<sup>44</sup>

##### ***Activity***

The purpose of the survey was to obtain data for developing activity estimates and control information (e.g., bans on burning) that would form the basis of an improved open burning emission inventory for Mid-Atlantic/Northeast Visibility Union (MANE-VU) states and tribes for the year 2002. But for 2014, the percentages used to calculate emissions are the same; the emissions increase or decrease due to the estimated number of households that burn and the amount of material burned.

A rule effectiveness (RE) survey was also performed to estimate controlled emissions for areas that prohibit open burning. Household waste burning surveys were completed for 72 respondents or jurisdictions, while yard waste surveys were conducted for 181 respondents. The respondents for this survey were typically local fire wardens or chiefs. Rule effectiveness surveys related to residential MSW rules were conducted for 49

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<sup>44</sup> Open Burning in Residential Areas Emissions Inventory Development Report, Prepared by E.H. Pechan & Associates, Inc. for the Mid-Atlantic/Northeast Visibility Union, dated January 31, 2004.

respondents, while RE surveys for yard waste burning rules were performed for 51 respondents. In obtaining survey responses, Pechan collected activity data and control information for areas classified as urban, suburban, and rural, or a combination of these designations (defined using data from the 2000 U.S. Census). Pechan also developed a control database for each open burning category that describes the recommended control efficiency (CE) and rule penetration (RP) values by state and county, and by sub-county, where applicable.

Open burning activity estimates recorded from the survey were used directly to estimate emissions for the surveyed jurisdictions. For the non-surveyed areas, including tribal lands, the default activity data derived from all survey responses were applied. Households are defined as detached single-family unit dwellings as provided by the 2000 U.S. Census.

### *Emission Factors*

Emission factors in lbs/ton total mass were taken from AP-42 Table 2.5-1. Emission Factors for Open Burning of Municipal Refuse and from a 1997 EPA research paper on open burning<sup>45</sup> are listed below:

SCC	Type of Waste	PM2.5 lb/ton	PM10 lb/ton	VOC lb/ton	NOX lb/ton	SO2 lb/ton	CO lb/ton
2610030000	<b>HH MSW</b>	<b>34.8</b>	<b>38</b>	<b>8.56</b>	<b>6</b>	<b>1</b>	<b>85</b>
2610000100	Leaf Waste	22	22	28	6.2	0.76	112
2610000400	Brush Waste	15.21	19.73	19	5	1.66	140

### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

### **Adjustments for Controls**

If an area has controls or prohibitions on residential burning, controlled emissions were calculated from uncontrolled emissions using the following equation:

$$E_c = E_{uc} * [(1-(CE)(RP)(RE)]$$

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<sup>45</sup> EPA. 1997. Evaluation of Emissions from the Open Burning Of Household Waste in Barrels. EPA-600/R-97-134a. U.S. Environmental Protection Agency, Control Technologies Center. Research Triangle Park, North Carolina.

where:

$E_c$	=	Controlled area source emissions
$E_{uc}$	=	Uncontrolled area source emissions
CE	=	% Control efficiency varied 0 to 100%
RP	=	% Rule penetration varied 0 to 100%
RE	=	% Rule effectiveness was 96.8%

The following sections describe how values for CE, RP and RE were derived from the survey.

### **Rule Effectiveness**

Pechan evaluated differences in RE between rural/suburban and urban areas, as well as differences in RE for MSW and yard waste burning. Although one may expect that RE would be higher for urban than for suburban or rural areas, ANOVA of the survey results from these geographic subdivisions, as well as for the different open burning categories, did not show that RE values were drawn from distinct populations. Therefore, the final selection of RE reflects a value for all areas and all burning categories.

There were a total of 26 RE survey responses that included information on the number of violating households. To calculate RE, Pechan used the number of households violating the rule, and the number of households expected to perform open burning for areas in the region where there is no rule (i.e., # households x fraction of open burning households by region from survey).

The RE values obtained from the survey responses will be used for the specific State or jurisdiction surveyed. Non-surveyed areas could not be assigned a jurisdiction-specific RE, because no survey responses were obtained for those areas. Pechan did not develop state specific RE values since we had no reason to believe that local jurisdictions in individual states implemented their rules differently than local jurisdictions in the rest of the MANE-VU region. To estimate a default RE value for the remaining areas, the survey data were statistically analyzed. After evaluating the data using the Census 2000 data, a mean value of 96.8 percent reflected the best estimator of central tendency. As such, Pechan applied a rule effectiveness of 96.8 percent to all areas and for both MSW and yard waste burning (Pechan, 2002b).

### **Control Efficiency and Rule Penetration**

For those areas identified to have a control, CE is assumed to be 100 percent (since the control is typically a ban on burning activity). For MSW burning, with the exception of Pennsylvania, Pechan assigned 100 percent CE and 100 percent RP to urban and suburban areas in the MANE-VU region (i.e., even if the state did not have a statewide ban on burning). In Pennsylvania, unless a jurisdiction or county (e.g., Allegheny County) was determined via survey to have a ban, it will be assumed that suburban and rural areas allow open burning. For yard waste burning, Pechan assigned 100 percent CE and RP to all urban areas in the MANE-VU region. Yard waste emissions calculated for suburban and urban areas were assumed to be uncontrolled, unless the survey data or other statewide or local control information indicated otherwise. For municipal yard waste burning, areas were assumed to either perform this activity or have associated emissions, or did not conduct burns and therefore were assigned zero emissions.

In determining annual emissions for those areas with a seasonal ban, Pechan adjusted the RP by the length of the seasonal ban relative to the entire year. The RP value also depends on how the time period of the ban overlaps with the activity profile for the specific category of burning. For example, for brush waste burning, the survey data revealed an average activity profile as follows: Winter–20%; Spring–46%; Summer–6%; and Fall–28%. So, for an area that has a brush burning ban in the summer, although some percentage of burning is likely to be prevented during this season, we assume that 2 percent of the summer season brush burning in August is delayed until September when burning is permitted, resulting in an RP of 4 percent to apply to annual brush waste burning emissions. As mentioned in the discussion of temporal allocation profiles, this also has an effect on the monthly activity profile. A summer RP value of 4 percent would result in a revised temporal allocation profile to be: Winter–20%; Spring–46%; Summer– 4%; and Fall–30%.

Control Percentages used for each county:

STATE CO	SCC	RE	RP	CE
24001	2610030000	96.80%	82.61%	82.61%
24003	2610030000	96.80%	93.62%	100%
24005	2610030000	96.80%	94.80%	100%
24009	2610030000	96.80%	60.29%	100%
24011	2610030000	96.80%	28.57%	28.57%
24013	2610030000	96.80%	100%	100%
24015	2610030000	96.80%	62.50%	100%
24017	2610030000	96.80%	68.75%	100%
24019	2610030000	96.80%	33.33%	33.33%
24021	2610030000	96.80%	71.88%	100%
24023	2610030000	96.80%	14.29%	14.29%
24025	2610030000	96.80%	80%	100%
24027	2610030000	96.80%	92.68%	100%
24029	2610030000	96.80%	40%	40%
24031	2610030000	96.80%	98.31%	100%
24033	2610030000	96.80%	100%	100%
24035	2610030000	96.80%	25%	100%
24037	2610030000	96.80%	40%	40%
24039	2610030000	96.80%	50%	50%
24041	2610030000	96.80%	33.33%	33.33%
24043	2610030000	96.80%	0%	0%
24045	2610030000	96.80%	94.12%	94.12%
24047	2610030000	96.80%	75%	75%
24510	2610030000	96.80%	0%	0%

## Spatial and Temporal Allocations

### *Spatial*

Pechan collected activity data and control information for areas classified as urban, suburban, and rural, or a combination of these designations (defined using data from the 2000 U.S. Census).

### *Temporal*

Activity estimates and associated emissions are calculated on an annual basis. Pechan proposes the following temporal allocation profiles to represent monthly, weekly, and daily activity profiles by SCC (see Tables II-2 through II-5). The monthly activity profiles were developed based on data obtained from the survey. The weekly and weekday/weekend profiles were developed based on engineering judgment. These profiles will be applied to annual activity for all areas of MANE-VU (i.e., variations in regional, State, or tribal areas are not accounted for).

#### Temporal Allocation Profile Formats (monthly)

SCC	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2610030000	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083
2610000400	0.067	0.067	0.153	0.153	0.153	0.020	0.020	0.020	0.093	0.093	0.093	0.067
2610040400	0.067	0.067	0.153	0.153	0.153	0.020	0.020	0.020	0.093	0.093	0.093	0.067
2610000100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.333	0.333	0.333	0.000

#### Temporal Allocation Profile Formats (weekly)

SCC	Day of Week						
	Mon	Tue	Wed	Thu	Fri	Sat	Sun
2610030000	0.111	0.111	0.111	0.111	0.111	0.222	0.222
2610000400	0.111	0.111	0.111	0.111	0.111	0.222	0.222
2610040400	0.200	0.200	0.200	0.200	0.200	0.000	0.000
2610000100	0.111	0.111	0.111	0.111	0.111	0.222	0.222

#### Temporal Allocation Profile Formats (daily; weekday)

SCC	Weekday Hour											
	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200
2610030000	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610040400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000100	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071

SCC	Weekday Hour											
	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000
2610030000	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610040400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000100	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0

### Temporal Allocation Profile Formats (daily; weekend day)

SCC	Weekend Day Hour											
	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200
2610030000	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610040400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000100	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071

SCC	Weekend Day Hour											
	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000
2610030000	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610040400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000100	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0

### Emissions Calculation

Emissions were calculated at a census tract level and summed over a county for county level emissions. A county level sample emission calculation will not be presented here, however the equations for a particular census tract are presented below. All of the census tracts in a county would then be summed for county level emission estimates.

The equation for estimating the mass of waste burned is:

$$Wt_{MSW} = HH * Bt * M$$

where:

- $Wt_{MSW}$  = Mass of waste burned per time period
- $HH$  = Number of households that burn (Question 1, Part 2 of survey)
- $Bt$  = Number of burns per time period (Question 3, Part 2)
- $M$  = Mass of waste per burn (Question 5, Part 3)

Uncontrolled emissions were then calculated using the following equation:

$$E_{UNC} = Wt_{MSW} * EF$$

where:

- $E_{UNC}$  = Uncontrolled area source emissions
- $Wt_{MSW}$  = Mass of waste burned per time period
- $EF$  = Emission factor per pollutant

Controlled emissions were then calculated using the following equation:

$$E_C = E_{UNC} * [(1-(CE)(RP)(RE))]$$

where:

- $E_C$  = Controlled area source emissions
- $E_{UNC}$  = Uncontrolled area source emissions



#### 4.1.5.5 Open Burning – Residential Yard Waste

SCC: 26 10 000 100 (Leaf Debris)

SCC: 26 10 000 400 (Brush Debris)

##### **Description**

Open burning is the unconfined burning of wood, leaves, land clearing debris, household waste, and agricultural crop waste. Household waste often referred to as residential municipal solid waste (MSW), is a term for nonhazardous refuse produced by households (e.g., paper, plastics, metals, wood, glass, rubber, leather, textiles, and food wastes).

Open burning without a permit is prohibited in Maryland where trash and leaf collection is available, COMAR 26.11.07. The basic difference between the regulation as it applies to counties in AQCRs III and IV and the rest of the state is the requirements under which the burn takes place, i.e., minimum setbacks from property lines, etc. In the more rural counties, areas with no available trash collection are more prevalent. MDE adopted a regulation that prohibits open burning during the peak ozone period (June to August). The seasonal prohibition only affects those counties that lie within serious and severe ozone nonattainment areas. Certain exemptions must be in place however so as not to adversely affect agriculture or restrict fire training and recreational activities.

##### **Pollutants**

VOC, NO<sub>x</sub>, SO<sub>x</sub>, CO, PM<sub>10</sub>, PM<sub>2.5</sub>, and HAPs

##### **Method and**

##### **Data Sources**

The method used to calculate emissions is presented in a study/survey conducted by the Mid-Atlantic/Northeast Visibility Union (MANE-VU), titled “Open Burning in Residential Areas Emissions Inventory Development Report.”<sup>46</sup>

##### ***Activity***

The purpose of the survey was to obtain data for developing activity estimates and control information (e.g., bans on burning) that would form the basis of an improved open burning emission inventory for Mid-Atlantic/Northeast Visibility Union (MANE-VU) states and tribes for the year 2002. But for 2014, the percentages used to calculate emissions are the same; the emissions increase or decrease due to the estimated number of households that burn and the amount of material burned.

A rule effectiveness (RE) survey was also performed to estimate controlled emissions for areas that prohibit open burning. Household waste burning surveys were completed for 72 respondents or jurisdictions, while yard waste surveys were conducted for 181 respondents. The respondents for this survey were typically local fire wardens or chiefs. Rule effectiveness surveys related to residential MSW rules were conducted for 49

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<sup>46</sup> Open Burning in Residential Areas Emissions Inventory Development Report, Prepared by E.H. Pechan & Associates, Inc. for the Mid-Atlantic/Northeast Visibility Union, dated January 31, 2004.

respondents, while RE surveys for yard waste burning rules were performed for 51 respondents. In obtaining survey responses, Pechan collected activity data and control information for areas classified as urban, suburban, and rural, or a combination of these designations (defined using data from the 2000 U.S. Census). Pechan also developed a control database for each open burning category that describes the recommended control efficiency (CE), rule penetration (RP) values by state per county, and by sub-county, where applicable.

Open burning activity estimates recorded from the survey were used directly to estimate emissions for the surveyed jurisdictions. For the non-surveyed areas, including tribal lands, the default activity data derived from all survey responses were applied. Households are defined as detached single-family unit dwellings as provided by the 2000 U.S. Census.

### ***Emission Factors***

Emission factors in lbs/ton total mass were taken from AP-42 Table 2.5-1, Emission Factors for Open Burning of Municipal Refuse and from a 1997 EPA research paper on open burning<sup>47</sup> are listed below:

<b>SCC</b>	<b>Type of Waste</b>	<b>PM2.5 lb/ton</b>	<b>PM10 lb/ton</b>	<b>VOC lb/ton</b>	<b>NOX lb/ton</b>	<b>SO2 lb/ton</b>	<b>CO lb/ton</b>
<b>2610030000</b>	<b>HH MSW</b>	<b>34.8</b>	<b>38</b>	<b>8.56</b>	<b>6</b>	<b>1</b>	<b>85</b>
<b>2610000100</b>	<b>Leaf Waste</b>	<b>22</b>	<b>22</b>	<b>28</b>	<b>6.2</b>	<b>0.76</b>	<b>112</b>
<b>2610000400</b>	<b>Brush Waste</b>	<b>15.21</b>	<b>19.73</b>	<b>19</b>	<b>5</b>	<b>1.66</b>	<b>140</b>

### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

### **Adjustments for Controls**

If an area has controls or prohibitions on residential burning, controlled emissions were calculated from uncontrolled emissions using the following equation:

$$E_c = E_{uc} * [(1-(CE)(RP)(RE)]$$

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<sup>47</sup> EPA 1997. Evaluation of Emissions from the Open Burning Of Household Waste in Barrels. EPA-600/R-97-134a. U.S. Environmental Protection Agency, Control Technologies Center. Research Triangle Park, North Carolina.

where:

$E_c$	=	Controlled area source emissions
$E_{uc}$	=	Uncontrolled area source emissions
CE	=	% Control efficiency varied 0% to 100%
RP	=	% Rule penetration varied 0% to 100%
RE	=	% Rule effectiveness 96.8%

The following sections describe how values for CE, RP, and RE were derived from the survey.

### **Rule Effectiveness**

Pechan evaluated differences in RE between rural/suburban and urban areas, as well as differences in RE for MSW and yard waste burning. Although one may expect that RE would be higher for urban than for suburban or rural areas, ANOVA of the survey results from these geographic subdivisions, as well as for the different open burning categories, did not show that RE values were drawn from distinct populations. Therefore, the final selection of RE reflects a value for all areas and all burning categories.

There were a total of 26 RE survey responses that included information on the number of violating households. To calculate RE, Pechan used the number of households violating the rule, and the number of households expected to perform open burning for areas in the region where there is no rule (i.e., # households x fraction of open burning households by region from survey).

The RE values obtained from the survey responses will be used for the specific State or jurisdiction surveyed. Non-surveyed areas could not be assigned a jurisdiction-specific RE, because no survey responses were obtained for those areas. Pechan did not develop state specific RE values since we had no reason to believe that local jurisdictions in individual states implemented their rules differently than local jurisdictions in the rest of the MANE-VU region. To estimate a default RE value for the remaining areas, the survey data were statistically analyzed. After evaluating the data using the Census 2000 data, a mean value of 96.8 percent reflected the best estimator of central tendency. As such, Pechan applied a rule effectiveness of 96.8 percent to all areas and for both MSW and yard waste burning (Pechan, 2002b).

### **Control Efficiency and Rule Penetration**

For those areas identified to have a control, CE is assumed to be 100 percent (since the control is typically a ban on burning activity). For MSW burning, with the exception of Pennsylvania, Pechan assigned 100 percent CE and 100 percent RP to urban and suburban areas in the MANE-VU region (i.e., even if the state did not have a statewide ban on burning). In Pennsylvania, unless a jurisdiction or county (e.g., Allegheny County) was determined via survey to have a ban, it will be assumed that suburban and rural areas allow open burning. For yard waste burning, Pechan assigned 100 percent CE and RP to all urban areas in the MANE-VU region. Yard waste emissions calculated for suburban and urban areas were assumed to be uncontrolled, unless the survey data or other statewide or local control information indicated otherwise. For municipal yard waste burning, areas were assumed to either perform this activity or have associated emissions, or did not conduct burns and therefore were assigned zero emissions.

In determining annual emissions for those areas with a seasonal ban, Pechan adjusted the RP by the length of the seasonal ban relative to the entire year. The RP value also depends on how the time period of the ban overlaps with the activity profile for the specific category of burning. For example, for brush waste burning, the survey data revealed an average activity profile as follows: Winter–20%; Spring–46%; Summer–6%; and Fall–28%. So, for an area that has a brush burning ban in the summer, although some percentage of burning is likely to be prevented during this season, we assume that 2 percent of the summer season brush burning in August is delayed until September when burning is permitted, resulting in an RP of 4 percent to apply to annual brush waste burning emissions. As mentioned in the discussion of temporal allocation profiles, this also has an effect on the monthly activity profile. A summer RP value of 4 percent would result in a revised temporal allocation profile to be: Winter–20%; Spring–46%; Summer– 4%; and Fall–30%.

## Spatial and Temporal Allocations

### *Spatial*

Pechan collected activity data and control information for areas classified as urban, suburban, and rural, or a combination of these designations (defined using data from the 2000 U.S. Census).

### *Temporal*

Activity estimates and associated emissions are calculated on an annual basis. Pechan proposes the following temporal allocation profiles to represent monthly, weekly, and daily activity profiles by SCC (see Tables II-2 through II-5). The monthly activity profiles were developed based on data obtained from the survey. The weekly and weekday/weekend profiles were developed based on engineering judgment. These profiles will be applied to annual activity for all areas of MANE-VU (i.e., variations in regional, State, or tribal areas are not accounted for).

Temporal Allocation Profile Formats (monthly)

SCC	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>2610030000</b>	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083
<b>2610000400</b>	0.067	0.067	0.153	0.153	0.153	0.020	0.020	0.020	0.093	0.093	0.093	0.067
<b>2610040400</b>	0.067	0.067	0.153	0.153	0.153	0.020	0.020	0.020	0.093	0.093	0.093	0.067
<b>2610000100</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.333	0.333	0.333	0.000

Temporal Allocation Profile Formats (weekly)

SCC	Day of Week						
	Mon	Tue	Wed	Thu	Fri	Sat	Sun
<b>2610030000</b>	0.111	0.111	0.111	0.111	0.111	0.222	0.222
<b>2610000400</b>	0.111	0.111	0.111	0.111	0.111	0.222	0.222
<b>2610040400</b>	0.200	0.200	0.200	0.200	0.200	0.000	0.000
<b>2610000100</b>	0.111	0.111	0.111	0.111	0.111	0.222	0.222

### Temporal Allocation Profile Formats (daily; weekday)

SCC	Weekday Hour											
	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200
2610030000	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610040400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000100	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071

SCC	Weekday Hour											
	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000
2610030000	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610040400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000100	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0

### Temporal Allocation Profile Formats (daily; weekend day)

SCC	Weekend Day Hour											
	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200
2610030000	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610040400	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071
2610000100	0	0	0	0	0	0	0.071	0.071	0.071	0.071	0.071	0.071

SCC	Weekend Day Hour											
	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000
2610030000	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610040400	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0
2610000100	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0	0	0	0

## Emissions Calculation

Emissions were calculated at a census tract level and summed over a county for county level emissions. A county level sample emission calculation will not be presented here, however the equations for a particular census tract are presented below. All of the census tracts in a county would then be summed for county level emission estimates.

The equation for estimating the mass of waste burned is:

$$Wt_{msw} = HH * Bt * M$$

where:

$Wt_{msw}$	=	Mass of waste burned per time period
HH	=	Number of households that burn (Question 1, Part 2 of survey)
Bt	=	Number of burns per time period (Question 3, Part 2)
M	=	Mass of waste per burn (Question 5, Part 3)

Uncontrolled emissions were then calculated using the following equation:

$$E_{UNC} = Wt_{MSW} * EF$$

where:

$E_{UNC}$  = Uncontrolled area source emissions  
 $Wt_{MSW}$  = Mass of waste burned per time period  
 $EF$  = Emission factor per pollutant

Controlled emissions were then calculated using the following equation:

$$E_C = E_{UNC} * [(1-(CE)(RP)(RE)]$$

where:

$E_C$  = Controlled area source emissions  
 $E_{UNC}$  = Uncontrolled area source emissions  
 $CE$  = % Control efficiency/100  
 $RP$  = % Rule penetration/100  
 $RE$  = % Rule effectiveness/100

#### 4.1.5.6 Cremation – Animal and Human

SCC: 28 10 060 100 (Humans)  
28 10 060 200 (Animals)

##### **Description**

Propane-fired burners (afterburner and ignition) are typically used at cemeteries for human body and animal cremation. Burners are usually rated at 2,115,000 Btu per hour capacity. Newer units installed in the late 1980's are equipped with a modulating ignition burner. When afterburner temperatures reach about 1800 F (980 C), the ignition burner modulates to a low-fire mode that will reduce the Btu per hour usage.

When the crematory reaches an operating temperature of 1,250 F (680 C) the body container is placed on the combustion chamber grate and the ignition burner is fired to attain a target combustion temperature sufficient for the proper reduction of human remains. The chamber preheats by the afterburner reaches 1,250 F (680 C) in about 30 to 45 minutes prior to ash removal. When the body container is introduced into the combustion chamber, and the burner is ignited, cremation begins at about 1600 to 1800 F (870 to 980 C). Flame impingement on the body takes two to three minutes; cremation occurs for about two hours. The remains are then raked towards the ignition burner for about two minutes. Cool-down follows for 45 minutes to 1.5 hours.

##### **Pollutants**

HAPs (Criteria Pollutants were not calculated supplied by sources)

##### **Method and**

##### **Data Sources**

###### *Activity*

In Maryland crematories are regulated under COMAR. COMAR now requires all crematories to obtain a permit to operate and any person who owns or operates an crematory must obtain certification from MDE and renew the certification annually.

MDE/ARA maintains a registry of all crematories within the State. Because of the requirement for a permit to operate, and the operator certification requirements, staff used the sum of the crematories in the registry as representing the total area source emissions from crematories of all types emitting less than 10 tons/VOC, 100 tons/yr CO and 50 tons per year NO<sub>x</sub>.

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### 4.1.5.7 Municipal Solid Waste Landfills

SCC: 26 20 030 000

##### Description

Municipal solid waste landfills receive household and commercial trash. VOC emissions are produced from volatilization, chemical reaction and biological decomposition of waste. Methane and Carbon dioxide are the primary constituents of landfill gas, and are produced during anaerobic decomposition of cellulose and proteins in the landfill waste. 98.7 percent of landfill emissions are methane and carbon dioxide according to the Volatile Organic Compounds Species Data Manual, an EPA publication. In addition to methane and carbon dioxide, non-methane organic carbons (NMOCs) are produced as a small fraction of the landfill gas emissions (less than 1%). NMOCs include hazardous air pollutants and reactive VOCs.

##### Pollutants

VOC

##### Method and Data Sources

The method used to calculate emissions, is presented in AP-42, Chapter 2.4, Municipal Solid Waste Landfills and EIIP<sup>48</sup>, Volume III, Chapter 15, Landfills, dated September 1997.

Emission estimation assumptions were also made using supporting documents Standards of Performance for New Stationary Sources (NARA, 1991a) and Emission Guidelines for Control of Existing Sources (NARA, 1997b).

To estimate emissions for the various compounds present in landfill gas, total landfill gas emissions must first be estimated. Emissions of landfill gas were calculated using a computer program known as the Landfill Gas Emissions Model (LandGEM 3.02). The model equation is as follows:

$$Q_{CH_4} = \sum_{i=1}^n \sum_{j=0.1}^1 k L_o \left( \frac{M_i}{10} \right) e^{-k t_{ij}}$$

Where:

$Q_{CH_4}$  = annual methane generation in the year of the calculation (m<sup>3</sup>/year)

$i$  = 1 year time increment

$n$  = (year of the calculation) - (initial year of waste acceptance)

$j$  = 0.1 year time increment

$k$  = methane generation rate (year<sup>-1</sup>)

$L_o$  = potential methane generation capacity (m<sup>3</sup>/Mg)

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<sup>48</sup> Emission Inventory Improvement Program



$M_i$  = mass of waste accepted in the  $i_{th}$  year (Mg)

$t_{ij}$  = age of the  $j_{th}$  section of waste mass  $M_i$  accepted in the  $i_{th}$  year (decimal years, e.g., 3.2 years)

Site-specific landfill information is generally available for variables  $M_i$ ,  $n$ , and  $t_{ij}$ . A more detailed explanation on how to run the model can be found in the LandGEM 3.02 Users Guide at <http://www.epa.gov/ttn/catc1/dir1/landgem-v302-guide.pdf>.

### Landgem Model Parameters AP-42 Default Values

$L_o$  : 100.00  $m^3$  / Mg

$k$  : 0.0400 1/yr

NMOC : 595.00 ppmv

Methane : 50.00 % volume

Carbon Dioxide : 50.00 % volume

Methane Generation Potential

Decay Rate/Rate of Decomposition

Non-methane Concentration

#### *Activity*

Data was obtained from MDE's Solid Waste Program and from the landfill facilities directly.

#### *Emission Factors*

All factors are incorporated into the LandGEM model.

### Point Source

#### Adjustments

Thirteen municipal solid waste landfills were considered point sources and LandGEM model runs for these landfills were done, but keep out of the Area source emission estimates. Emission reductions were calculated for landfills that used control technology to reduce emissions.

#### Adjustments for Controls

Controlled emissions from landfills were calculated in the following manner:

#### Equation:

$$E_{CON-LF} = \{E_{UNC-LF} \times (1 - C_{EFF})\} + \{E_{UNC-LF} \times C_{EFF} \times [1 - (D_{EFF} \times RE)]\}$$

Where:

$E_{CON-LF}$  = Controlled emissions from landfills

$E_{UNC-LF}$  = Uncontrolled emissions from landfills (generated from the LandGEM model)

$C_{EFF}$  = Landfill collection efficiency (EPA default = 75%)

$D_{EFF}$  = Control device destruction efficiency (98%)

$RE$  = Rule effectiveness (EPA default 80%)

## **Spatial and Temporal Allocations**

### *Spatial*

Data for spatial allocation is not available for this source.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## **4.1.6 SMALL STATIONARY SOURCE FOSSIL FUEL USE**

### **4.1.6.1 Small Electric Utility Boilers**

All small electric utility boilers are inventoried in the point source category. The list of small boilers from Inventory of Power Plants in the United States, DOE/EIA-0095(88) was obtained and indicated that all small electric boilers were included in the point source inventory.

### **4.1.6.2 Other Fuel Consumption**

Coke and process gas emissions will be inventoried as point sources.

#### 4.1.6.3 Fuel Oil Combustion

SCC: 21 04 011 000 (residential kerosene)  
21 03 011 000 (commercial/institutional kerosene)  
21 04 004 000 (residential distillate oil)  
21 03 004 000 (commercial/institutional distillate oil)  
21 03 005 000 (commercial/institutional residual oil)

#### Description

Data collection for fuel oil consumption covers the use of both distillate and residual oil. Distillate oil includes fuel oil grades 1, 2 and 4. Diesel fuel and kerosene also can be considered as distillate oils. Residential and commercial/institutional sources are the largest consumers of distillate oil, nationwide. Residual oil includes fuel oil grades 5 and 6. In most areas residual oil is not used by residential sources, but industrial and commercial/institutional users may consume significant amounts.

#### Pollutants

PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC

#### Method and Data Sources

##### *Activity*

Total sales statistics of kerosene, distillate oil, and residual oil in the State of Maryland were obtained from the Annual Report on Sales of Fuel Oil and Kerosene, 2013, published by Energy Information Administration, U.S. Department of Energy<sup>49</sup>.

##### *Emission Factors*

**Uncontrolled Emission Factors – AP-42 Tables 1.3-1 and 1.3-3 (hand-fed units)**

Pollutant	Residential Distillate lbs/Kgal	Residential Kerosene lbs/Kgal	Commercial Distillate lbs/Kgal	Commercial Kerosene lbs/Kgal	Commercial Residual lbs/Kgal	Commercial Residual 1% S lbs/Kgal
PM10-FIL	1.080	1.080	1.080	1.080	13.494	7.703
PM2.5-FIL	0.830	0.830	0.830	0.830	5.011	2.861
PM-CON	1.300	1.300	1.300	1.300	1.500	1.500
NH3	1.000	1.000	0.800	0.800	0.800	0.800
SO2	43.200	41.657	43.200	41.657	318.000	159.000
NOx	18.000	18.000	20.000	20.000	55.000	55.000
CO	5.000	5.000	5.000	5.000	5.000	5.000
VOC	0.713	0.713	0.340	0.340	1.130	1.130

<sup>49</sup> Total residential distillate oil use in the State of Maryland in 2013 from U.S Department of Energy, Energy Information Administration, Office of Oil and Gas, Petroleum Marketing Monthly, "Annual Report on Sales of Fuel Oil and Kerosene, 2013".

## Point Source Adjustments

No subtraction of emissions from point sources is necessary.

## Adjustments for Controls

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

This information on total sales of kerosene, distillate oil and residual oil was broken down to the county level using a spatial allocation factor documented and recommended by EIIP<sup>50</sup> in an Area Source Method Abstract for Residential and Commercial/Institutional Fuel Oil and Kerosene combustion.

MDE developed an allocation factor from local and state totals of annual heating-degree days and population with fuel oil to spatially allocate fuel oil consumption. The method is

A “heating-degree day” is a unit of measure used to indicate how cold it has been over a 24-hour period. Daily heating-degree days are calculated as the difference between the base value of 65°F and the mean temperature for the day (mean of the high and low temperatures for the day).

Annual heating degree days are the sum of the daily heating degree days. Heating degree data is available from the National Oceanographic and Atmospheric Administration (NOAA).<sup>51</sup>

$$SAF_{InventoryCounty} = \frac{HDD_{InventoryCounty} * POP_{InventoryCounty}}{\sum_{AllCountiesInState} (HDD_{County} * POP_{County})}$$

Where:

SAF <sub>InventoryCounty</sub>	=	Spatial apportioning factor for inventory county
HDD <sub>InventoryCounty</sub>	=	Annual heating degree days for inventory county
POP <sub>InventoryCounty</sub>	=	Population of the inventory county
HDD <sub>County</sub>	=	Annual heating degree days for each county in the state
POP <sub>County</sub>	=	Population for each county in the state

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<sup>50</sup> Emissions Inventory Improvement Program (EIIP) Area Source Method Abstract – Residential and Commercial/Institutional Fuel Oil and Kerosene Combustion, dated April 2011.

<sup>51</sup> <http://www.noaa.gov> (home page) or <http://www.ncdc.noaa.gov/ol/climate/climateproducts.html#PUBS> (for a list of available data)

The spatial apportioning factor is used to allocate the state fuel total to the county level using the following equation:

$$\text{Fuel}_{\text{INVENTORY COUNTY}} = \text{SAF}_{\text{INVENTORY COUNTY}} \times \text{Fuel}_{\text{TOTAL STATE}}$$

Where:

$$\begin{aligned} \text{Fuel}_{\text{INVENTORY COUNTY}} &= \text{Total Fuel consumed annually in the inventory county} \\ \text{Fuel}_{\text{TOTAL STATE}} &= \text{Total Fuel consumed annually in the state} \end{aligned}$$

### ***Temporal***

Kerosene, distillate oil, and residual oil are almost entirely used for space heating. MDE made the assumption that the amount of fuel consumed in a county over the course of a month is proportional to the number of heat degree days in that county for the month.

The total amount of fuel consumed in the county annually is allocated from state totals using the following formula.

$$\text{Fuel}_{\text{InventoryCountyAnnual}} = \text{SAF}_{\text{InventoryCounty}} * \text{Fuel}_{\text{TotalState}}$$

Where:

$$\begin{aligned} \text{Fuel}_{\text{InventoryCountyAnnual}} &= \text{Total Fuel consumed annually in the inventory county} \\ \text{Fuel}_{\text{TotalState}} &= \text{Total Fuel consumed annually in the state} \end{aligned}$$

The amount of fuel consumed in a month per county is proportional to the number heat degree days for the month in the county divided by the total number heat degree days for the year in the county.

$$\text{Fuel}_{\text{InventoryCountyPerMonth}} = \text{Fuel}_{\text{InventoryCountyAnnual}} * \frac{\text{HDD}_{\text{InventoryCounty} - \text{Month}}}{\text{HDD}_{\text{InventoryCounty} - \text{Annual}}}$$

## **Emissions Calculation**

### ***Activity Data Gathered***

- Total amount of fuel (kerosene, distillate oil, and residual oil) consumed in the state.
- Number of heat degree days per county per month for the year of the inventory.

### ***Calculate Spatial Apportioning Factor***

$$\text{SAF}_{\text{InventoryCounty}} = \frac{\text{HDD}_{\text{InventoryCounty}} * \text{POP}_{\text{InventoryCounty}}}{\sum_{\text{AllCountiesInState}} (\text{HDD}_{\text{County}} * \text{POP}_{\text{County}})}$$

***Apportion State Fuel Consumption to the County Level***

$$F_{I-CTY} = SAF_{CTY} \times F_{ST}$$

Where

$F_{I-CTY}$  = Fuel type I consumed in county

$SAF_{CTY}$  = Spatial apportioning factor for inventory county

$F_{ST}$  = Total fuel consumed in the state.

***Calculate Annual Emissions***

Emissions were calculated in tons/year for residential, commercial and industrial categories from each type of fuel combustion using following equations.

$$EM_R = (F_{I-CTY} \times EF_R) / 2000$$

Where

$EM_R$  = Emissions from residential category.

$F_{I-CTY}$  = Total annual residential sales of fuel i in the county.

$EF_R$  = Residential emission factor for fuel i from AP-42

$$EM_C = (F_{I-CTY} \times EF_C) / 2000$$

Where

$EM_C$  = Emissions from commercial/institutional category.

$F_{I-CTY}$  = Total annual commercial/institutional sales of fuel i in the county.

$EF_C$  = Commercial emission factor for fuel i from AP-42.

**Residential Distillate Oil Combustion Sample Calculation (Baltimore County)**

Residential Distillate Oil Consumed State of Maryland = **2,768<sup>52</sup>** kbarrels (Thousand Barrels)

Spatial apportioning factor for Baltimore City:

$$SAF_{\text{Baltimore Co}} = \frac{HDD_{\text{Baltimore Co}} \times POP_{\text{Units Heating Baltimore Co}}^{53}}{\sum \text{ALL COUNTIES IN STATE } (HDD_{\text{COUNTY}} \times POP_{\text{Units Heating State}})}$$

$$SAF_{\text{Baltimore Co}} = \mathbf{0.1257813}$$

To calculate the total annual kilo gallons of distillate oil used in city of Baltimore for residential space heating:

$$Fuel_{\text{Baltimore Co}} = SAF_{\text{Baltimore City}} \times Fuel_{\text{TOTAL STATE}}$$

$$Fuel_{\text{Baltimore Co}} = \mathbf{0.1257813 \times 2,768,000}$$

$$Fuel_{\text{Baltimore Co}} = \mathbf{348.16 \text{ kbarrels}} \quad 42 \text{ gallons per barrel}$$

$$Fuel_{\text{Baltimore Co}} = 348.16 \text{ kbarrels} \times 42 \text{ Kgal per kbarrels}$$

$$Fuel_{\text{Baltimore Co}} = \mathbf{14,622.83 \text{ Kgal}}$$

<sup>52</sup> From EIA: Adjusted Sales for Residential End Use: Distillate Fuel Oil and Kerosene, 2013 (Thousand Barrels)

<sup>53</sup> Population data from the U.S. Bureau of the Census, The Maryland Department of Planning

### Annual Emissions Calculation

$$E_{\text{Baltimore Co-Res-VOC}} = \text{Fuel}_{\text{Baltimore County}} \times EF_{\text{VOC}}$$

$$E_{\text{Baltimore Co-Res-VOC}} = 14,622.83 \text{ Kgal} \times 0.713 \text{ lbs VOC PER Kgal}$$

$$E_{\text{Baltimore Co-Res-VOC}} = 10,426.08 \text{ lbs VOC / year}$$

$$\mathbf{E_{\text{Baltimore Co-Res-VOC}} = 5.21 \text{ tons VOC / year}}$$

### Daily Emissions Calculation

Distillate Oil for Baltimore County was found to have a

SAF = seasonal adjustment factor of 0.002765272

POS = peak ozone period of 1

Days of the Period 31 (average days in summer month)

$$\text{Daily adjusted } E_{\text{Baltimore Co-Res-VOCda}} = (E_{\text{Baltimore Co-Res-VOC}} / 31) \times (\text{SAF} / \text{POS})$$

$$E_{\text{Baltimore Co-Res-VOCda}} = (5.21 / 31) \times (0.002765272 / 1) = \mathbf{4.65E-04 \text{ VOC tons/day}}$$

All pollutants (PM, SO<sub>x</sub>, NO<sub>x</sub>, VOC, and CO) are calculated in a similar manner.

Commercial and industrial emissions from this source category are calculated in a similar manner with the exception that the number of days in an ozone season changes from 214 for residential to 168 for commercial and industrial. Residential ozone season days are based on 7 days per week activity. Commercial and industrial ozone season days are based on 6 days per week activity.

#### 4.1.6.4 Coal Combustion

SCC: 21 04 002 000 (Residential Coal)

SCC: 21 03 002 000 (Commercial/Institutional Coal)

##### **Description Residential Coal**

This source category covers air emissions from coal combustion in the residential sector. Bituminous coal, mined here in Maryland, represents the bulk of the coal used residentially for space heating in the State. Although mined nearby in Pennsylvania, readily available, and cleaner burning, anthracite coal is not used much in Maryland because of its expense.

##### **Pollutants**

PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC

##### **Method and Data Sources**

###### *Activity*

The following assumptions were made in the computation of emissions from coal combustion from the residential sources.

###### (i) Number of Dwelling Units using Coal

The number of dwelling units using coal for space heating for 2014 was obtained from 2013 U. S. Census Profile on economic characteristics and the Maryland Office of Planning. MDE estimated that no new housing units would be equipped to burn coal as a home heating fuel.

###### (ii) Residential Coal Activity Consumption Data

The State Energy Data Report, Consumption Estimates, by the Energy Information Administration, provided information on estimated coal consumption. The report indicates that in Maryland mostly bituminous coal was used in 2013. It was assumed, therefore, that bituminous coal was consumed by most of the hand-fired residential coal sources in the State of Maryland.



### *Emission Factors*

Emission factors were obtained from AP-42, Tables 1.1-3 and 1.1-4 (Residential-hand-fed units) and PM2.5 from ERTAC.

<b>Coal Emission Factors</b>						
	<b>NO<sub>x</sub></b> <b>(lbs./ton)</b>	<b>CO</b> <b>(lbs./ton)</b>	<b>VOC</b> <b>(lbs./ton)</b>	<b>PM10-PRI</b> <b>(lbs./ton)</b>	<b>PM2.5-PRI</b> <b>(lbs./ton)</b>	<b>SO<sub>2</sub></b> <b>(lbs./ton)</b>
Residential	9.1	275	10	6.2	3.84	37.2

Maryland's 2008 average sulfur content in coal = 1.2% Sulfur (DOE/EIA State Electricity Profiles 2008, March 2010 Table 6. page 124 )

AP42 Table 1.1-19 (hand fed units) Emission factor SO<sub>2</sub> = 31S

In formula  $S = 1.2$ , such that  $SO_2 \text{ EF} = 31 * 1.2 = 37.2 \text{ lb/ton}$

#### **Point Source**

##### **Adjustments**

No subtraction of emissions from point sources is necessary.

##### **Adjustments**

##### **for Controls**

No controls are available for this source category.

#### **Spatial and**

#### **Temporal**

#### **Allocations**

##### *Spatial*

MDE developed an allocation factor from local and state totals of annual heating-degree days and housing units heating with coal to spatially allocated coal consumption. The method is documented and recommended by EIIP<sup>54</sup> in an Area Source Method Abstract for natural gas and LPG combustion. Because the emission factor was specifically adjusted to reflect seasonal emissions through heating degree days, no further seasonal adjustment factor is necessary.

A "heating-degree day" is a unit of measure used to indicate how cold it has been over a 24-hour period. Daily heating-degree days are calculated as the difference between the base value of 65°F and the mean temperature for the day (mean of the high and low temperatures for the day).

Annual heating-degree days are the sum of the daily heating-degree days. Heating degree data is available from the National Oceanographic and Atmospheric Administration (NOAA).<sup>55</sup>

$$SAF_{InventoryCounty} = \frac{HDD_{InventoryCounty} * CHU_{InventoryCounty}}{\sum_{AllCountiesInState} (HDD_{County} * CHU_{County})}$$

Where:

SAF <sub>INVENTORY COUNTY</sub>	=	Spatial apportioning factor for inventory county
HDD <sub>INVENTORY COUNTY</sub>	=	Annual heating degree days for inventory county
CHU <sub>INVENTORY COUNTY</sub>	=	Housing units using coal in inventory county
HDD <sub>COUNTY</sub>	=	Annual heating degree days for each county in the state
CHU <sub>COUNTY</sub>	=	Housing units using coal for each county in the state

The spatial apportioning factor is used to allocate the state fuel total to the county level using the following equation:

$$Coal_{INVENTORY COUNTY} = SAF_{INVENTORY COUNTY} \times Coal_{TOTAL STATE}$$

Where:

Coal <sub>INVENTORY COUNTY</sub>	=	Total Coal fuel consumed in the inventory county
Coal <sub>TOTAL STATE</sub>	=	Total Coal fuel consumed in the state.

### ***Temporal***

MDE assumed that all residential coal combustion is used for space heating purposes. The total coal consumed in the county can be allocated by month or period using proportions of annual and monthly (or period) heating-degree days.

$$Residential\ Fuel_{MONTH} = Residential\ Fuel_{ANNUAL} \times \frac{HDD_{MONTH}}{HDD_{ANNUAL}}$$

where:

Residential Fuel <sub>MONTH</sub>	=	Space heating fuel use for inventory month
Residential Fuel <sub>ANNUAL</sub>	=	Space heating fuel use for inventory year
HDD <sub>MONTH</sub>	=	Heating degree days for inventory month
HDD <sub>ANNUAL</sub>	=	Heating degree days for inventory year

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<sup>55</sup> <http://www.noaa.gov> (home page) or <http://www.ncdc.noaa.gov/ol/climate/climateproducts.html#PUBS> (for a list of available data)

## Emissions Calculation

Equation:

$$E_{\text{COALR}} = \frac{(EF_{\text{COAL } i} \times \text{Coal}_{\text{INVENTORY COUNTY}})}{2000}$$

$E_{\text{COALR}}$  = Yearly emissions from residential coal combustion

$EF_{\text{COAL } i}$  = Emission factor for coal combustion for pollutant i

### Annual Emissions Calculation

#### Residential Coal Combustion Sample Calculation (Harford County) (tons / year)

Total Residential Coal Consumption – State of Maryland 2,000 tons (Bituminous Coal)

To calculate spatial apportioning factor for Harford County:

$$\text{SAF}_{\text{HARFORD COUNTY}} = \frac{\text{HDD}_{\text{INVENTORY COUNTY}} \times \text{CHU}_{\text{INVENTORY COUNTY}}}{\sum \text{ALL COUNTIES IN STATE } (\text{HDD}_{\text{COUNTY}} \times \text{CHU}_{\text{COUNTY}})}$$

$$\text{SAF}_{\text{HARFORD COUNTY}} = \mathbf{0.07254565}$$

To calculate tons of coal used in Harford County:

$$\text{Residential Coal}_{\text{HARFORD COUNTY}} = \text{SAF}_{\text{HARFORD COUNTY}} \times \text{Coal}_{\text{TOTAL STATE}}$$

$$\text{Residential Coal}_{\text{HARFORD COUNTY}} = 0.07254565 \times 2,000$$

$$\text{Residential Coal}_{\text{HARFORD COUNTY}} = 145.09 \text{ tons}$$

Equation:

#### Residential Coal SO<sub>2</sub> Emission Calculation for Harford County

$$E_{\text{COALR}} = \frac{(EF_{\text{COAL VOC}} \times \text{Coal}_{\text{HARFORD COUNTY}})}{2000}$$

$$E_{\text{COALR}} = \frac{(10.0 \times 145.09)}{2000}$$

$$\mathbf{E_{\text{COALR}} = 0.73 \text{ tons VOC year}}$$

#### Daily Emissions Calculation

Residential Coal Combustion for Harford County was found to have a

SAF = seasonal adjustment factor of 0.002765272

POS = peak ozone period of 1

Days of the Period 31 (average days in summer month)

Daily adjusted  $E_{COALRda} = (E_{COALR} / 31) * (SAF / POS)$

$$E_{COALRda} = (0.73 / 31) * (0.002765272 / 1) = 6.47E-05 \text{ VOC tons/day}$$

#### Description - Commercial and Institutional Coal

Commercial and Institutional sources of coal combustion above the point source threshold are included in the point source portion of the inventory. The following table lists area source emissions from commercial and institutional sources smaller than the threshold values.

#### Methods and Data Sources

The following assumptions were made in the computation of emissions from coal combustion from the commercial and institutional sources not included in the point source inventory.

##### *Activity*

##### (i) Coal Consumption Data

The State Energy Data Report (SEDR) estimated that approximately 9,000 tons/year of total coal was used commercially by Maryland in 2013.

##### (ii) Number of Dwelling Units using Coal

The number of businesses using coal for space heating for 2014 was obtained from 2013 U. S. Census Profile on economic characteristics. MDE estimated that no businesses would be equipped to burn coal for heating fuel.

COMAR 26.11.09.04 prohibits the use of solid fuel-burning equipment that has a rated heat input of less than 35 million BTU per hour.

##### *Emission Factors*

EMISSION FACTORS WERE OBTAINED FROM AP-42, TABLES 1.1-3 AND VOCS (TNMOC) TABLE 1.1-19 (AVERAGE OF OVERFEED AND UNDERFEED STOKER). PM10 AND PM2.5 EF ON TABLES 1.1-10 AND 1.1-11

Coal Emission Factors						
	NO <sub>x</sub> (lbs./ton)	CO (lbs./ton)	VOC (lbs./ton)	PM10-PRI (lbs./ton)	PM2.5-PRI (lbs./ton)	SO <sub>2</sub> (lbs./ton)
Commercial / Institutional	8.5	8.5	0.675	6.1	3	41.4

## Point Source Adjustments

No subtraction of emissions from point sources is necessary.

## Adjustments for Controls

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

Spatial temporal allocations to this source category were calculated in the same manner as the residential coal combustion category.

### *Temporal*

Spatial and temporal allocations to this source category were calculated in the same manner as the residential coal combustion category.

## Emissions Calculation

Annual Emissions Calculation

Commercial Coal Combustion Sample Calculation (Allegany County) (tons / year)

Total Commercial Coal Consumption – State of Maryland 9,000 tons

To calculate spatial apportioning factor for Allegany County:

$$\text{SAF}_{\text{ALLEGANY COUNTY}} = \frac{\text{HDD}_{\text{INVENTORY COUNTY}} \times \text{CHU}_{\text{INVENTORY COUNTY}}}{\sum \text{ALL COUNTIES IN STATE} (\text{HDD}_{\text{COUNTY}} \times \text{CHU}_{\text{COUNTY}})}$$

$$\text{SAF}_{\text{ALLEGANY COUNTY}} = 0.371317$$

To calculate tons of coal used in Allegany County:

$$\begin{aligned} \text{Commercial Coal}_{\text{ALLEGANY COUNTY}} &= \text{SAF}_{\text{ALLEGANY COUNTY}} \times \text{Coal}_{\text{TOTAL STATE}} \\ \text{Commercial Coal}_{\text{ALLEGANY COUNTY}} &= 0.371317 \times 9,000 \\ \text{Commercial Coal}_{\text{ALLEGANY COUNTY}} &= 3,341.85 \text{ tons} \end{aligned}$$

Equation:

Commercial Coal VOC Emission Calculation for Allegany County

$$E_{\text{COALC}} = \frac{(\text{EF}_{\text{COAL VOC}} \times \text{Coal}_{\text{ALLEGANY COUNTY}})}{2000}$$

$$E_{\text{COALC}} = \frac{(0.675 \times 3,341.85)}{2000}$$

$$E_{\text{COALC}} = \mathbf{1.13 \text{ tons VOC year}}$$

Daily Emissions Calculation

Commercial Coal Combustion for Allegany County was found to have a

SAF = seasonal adjustment factor of 0.002765272

POS = peak ozone period of 1

Days of the Period 31 (average days in summer month)

Daily adjusted  $E_{\text{COALCda}} = (E_{\text{COALC}} / 31) * (\text{SAF} / \text{POS})$

$$E_{\text{COALCda}} = (\mathbf{1.13} / 31) * (0.002765272 / 1) = \mathbf{1.01E-04 \text{ VOC tons/day}}$$

#### 4.1.6.5 Natural Gas Combustion

SCC:21 04 006 000 (Residential Natural Gas)

SCC:21 03 006 000 (Commercial/Institutional Natural Gas)

##### **Description**

This source category covers air emissions from natural gas combustion in the residential and commercial/institutional sectors for space heating, water heating, and cooking. This category includes small boilers, furnaces, heaters and other heating units that are not inventoried as point sources. Residential and commercial sectors comprise housing units; wholesale and retail businesses; health institutions; social and educational institutions; and Federal, state and local government institutions (e.g., military installations, prisons, office buildings). Natural gas is one of the major fuels used throughout the country. It is used mainly for power generation, for industrial process steam and heat production, and for domestic and commercial space heating. It is also used for domestic cooking and hot water heating.

##### **Pollutants**

PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, NH<sub>3</sub>, VOC

##### **Method and Data Sources**

The following assumptions were made in the computation of the emissions from natural gas combustion.

##### ***Activity***

(i) Number of Dwelling Units using Natural Gas

The number of dwelling units using natural gas for space heating for 2014 was obtained from 2013 U. S. Census Profile on economic characteristics and the Maryland Office of Planning.

(ii) Residential and Commercial/Institutional Natural Gas Consumption Data

Total residential and commercial/institutional natural gas consumption data in the State of Maryland for 2014 was obtained from surveying the following companies: Baltimore Gas and Electric (*Constellation Energy Group*), Washington Gas Energy Services (Maryland Division), Chesapeake Utilities Corporation, Columbia Gas of Maryland, Easton Utility Commission, and Elkton Gas Company. The companies provided natural gas sales statistics for the year 2014 in therms or cubic feet for all counties in their service area for the residential, commercial, and industrial categories. These statistics were then converted into million cubic feet using a conversion factor of 1 therm equals 100 cubic feet.

### ***Emission Factors***

#### **(iii)Emission Factors – Natural Gas**

Emission factors for residential natural gas came from 2008 Emission Inventory Data & Documentation (<http://www.epa.gov/ttn/chief/net/2008inventory.html> ) Nonpoint section for Residential Heating: Natural Gas factors for combustion of natural gas in commercial boilers are presented in Table 1.4-1 and 1.4-2 of Section 1.4 of *AP-42*. Commercial factors came from the ICI Workbook on the same website created by EPA and ERTAC committee through a joint study.

<b>Natural Gas Emission Factors</b>							
	<b>NO<sub>x</sub></b> <b>(lbs./10<sup>6</sup> scf)</b>	<b>CO</b> <b>(lbs./10<sup>6</sup> scf)</b>	<b>VOC</b> <b>(lbs./10<sup>6</sup> scf)</b>	<b>PM 10</b> <b>(lbs./10<sup>6</sup> scf)</b>	<b>PM 2.5</b> <b>(lbs./10<sup>6</sup> scf)</b>	<b>NH<sub>3</sub></b> <b>(lbs./10<sup>6</sup> scf)</b>	<b>SO<sub>x</sub></b> <b>(lbs./10<sup>6</sup> scf)</b>
Residential	94	40	5.5	0.2	0.11	20	0.6
Commercial	100	84	5.5	0.2	0.11	0.49	0.6

### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

### **Adjustments for Controls**

No controls are available for this source category.

### **Spatial and Temporal Allocations**

#### ***Spatial***

The natural gas survey of suppliers provided MDE with county totals for natural gas consumption. Therefore MDE did not have to use an allocation factor derived from local and state totals of annual heating degree days and housing units heating with natural gas to spatially allocated natural gas consumption to the county level for most of the counties.

#### ***Temporal***

In addition to space heating, natural gas is often used for cooking and water heating. For ozone and other seasonal inventories, consumption for cooking and water heating may be assumed to be constant through the year, but fuel used for space heating must be apportioned according to heating needs.



To separate residential space heating natural gas usage from cooking and water heating, MDE used data from the State Energy Data Report, Consumption Estimates, Energy Information Administration, Office of Energy Markets and End Use, U.S. Department of Energy. Specifically data was collected from Table 15 – Natural Gas Deliveries to Residential Customers, by State, 1998-2013. The residential deliveries for the month with the lowest deliveries can be assumed to be only for cooking and water heating. The percentage of residential natural gas consumption for cooking and water heating may then be calculated:

$$\begin{aligned}
 \text{Annual Non-Space Heating Percent} &= \frac{12 * \text{Lowest Monthly Fuel Use}}{\text{Annual Fuel Use}} * 100 \\
 \text{Annual Non-Space Heating Percent} &= \frac{12 * 1635}{80,447} * 100 \\
 \text{Annual Non-Space Heating Percent} &= 24.389 \%
 \end{aligned}$$

The annual non-space heating percent can be calculated in a similar manner for commercial/institutional natural gas usage. The percentage of commercial/institutional natural gas consumption for non-space heating may then be calculated:

$$\begin{aligned}
 \text{Annual Non-Space Heating Percent} &= \frac{12 * \text{Lowest Monthly Fuel Use}}{\text{Annual Fuel Use}} * 100 \\
 \text{Annual Non-Space Heating Percent} &= \frac{12 * 2440}{65323} * 100 \\
 \text{Annual Non-Space Heating Percent} &= 44.823 \%
 \end{aligned}$$

This percentage may be applied to the inventory area's total residential and/or commercial/institutional natural gas consumption to calculate the non-space heating portion of usage. This portion can be subtracted from the annual total, and the remaining consumption, which is being used for space heating, can be allocated by month or period using proportions of annual and monthly or period heating degree days.

$$\text{Space Heat Fuel}_{\text{MONTH}} = \text{Space Heat Fuel}_{\text{ANNUAL}} \times \frac{\text{HDD}_{\text{MONTH}}}{\text{HDD}_{\text{ANNUAL}}}$$

Where:

$$\begin{aligned}
 \text{Space Heat Fuel}_{\text{MONTH}} &= \text{Space heating fuel use for inventory month} \\
 \text{Space Heat Fuel}_{\text{ANNUAL}} &= \text{Space heating fuel use for inventory year} \\
 \text{HDD}_{\text{MONTH}} &= \text{Heating degree days for inventory month} \\
 \text{HDD}_{\text{ANNUAL}} &= \text{Heating degree days for inventory year}
 \end{aligned}$$

## Emissions Calculation

### Emission Calculation – Residential Emissions

#### Equation:

$$E_{\text{NatGas}} = \frac{(EF_{\text{NatGas-P}} \times NG_i)}{2000}$$

$E_{\text{NatGas}}$  = Yearly emissions from natural gas combustion

combustion

$EF_{\text{NatGas-P}}$  = Emission factor for natural gas combustion for pollutant i

$NG_i$  = Natural gas consumed for county i

Total Residential Natural Gas Consumption – Baltimore County<sup>56</sup> 14,597.42 M ft<sup>3</sup>

	<b>Total Natural Gas Delivered (M ft<sup>3</sup>)</b>	
	<b>Residential</b>	<b>Commercial</b>
State of Maryland	<b>88,823.81</b>	<b>83,000.00</b>

$$E_{\text{NatGas}} = \frac{(EF_{\text{NatGas-voc}} \times NG_{\text{Bato.County}})}{2000}$$

$$E_{\text{NatGas}} = \frac{(5.5 \times 14,597.42)}{2000}$$

**$E_{\text{NatGas}}$  40.14 tons voc year**

The same equation and methodology can be used to estimate emission of various pollutants.

#### Daily Emissions Calculation

Residential Natural Gas Consumption for Baltimore County was found to have a

SAF = seasonal adjustment factor of 0.06283113

POS = peak ozone period of 1

Days of the Period 31 (average days in summer month)

Daily adjusted  $E_{\text{NatGasda}} = (E_{\text{NatGas}} / 31) * (\text{SAF} / \text{POS})$

$E_{\text{NatGasda}} = (40.14 / 31) * (0.06283113 / 1) = \mathbf{8.14E-02 \text{ VOC tons/day}}$

<sup>56</sup> Natural gas consumption data gathered from MDE survey – Baltimore County data from BGE

#### 4.1.6.6 Liquefied Petroleum Gas Combustion

SCC:21 04 007 000 (Residential LPG)

SCC:21 03 007 000 (Commercial/Institutional LPG)

##### **Description**

This source category covers air emissions from liquefied petroleum gas (LPG) combustion in the residential and commercial sectors for space heating, water heating, or cooking. LPG includes propane, propylene, butane, and butylenes. The product used for domestic heating is composed primarily of propane. This category includes small boilers, furnaces, heaters and other heating units that are not inventoried as point sources. Residential and commercial sectors comprise housing units; wholesale and retail businesses; health institutions; social and educational institutions; and Federal, state and local government institutions (e.g., military installations, prisons, office buildings).

##### **Pollutants**

PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, NH<sub>3</sub>, VOC

##### **Method and Data Sources**

The following assumptions were made in the computation of the emissions from liquefied petroleum gas (LPG) combustion.

##### *Activity*

##### 1. Number of Dwelling Units using LPG

The number of dwelling units using LPG for space heating for 2014 was obtained from 2013 U. S. Census Profile on economic characteristics and the Maryland Office of Planning.

##### 2. Residential and Commercial LPG Activity Consumption Data

Total residential and commercial LPG consumption data for space heating in the State of Maryland (LPG<sub>ST</sub>) for 2013 were obtained from State Energy Data Report, Consumption Estimates, Energy Information Administration, Office of Energy Markets, and End Use, U.S. Department of Energy.

##### *Emission Factors*

Emission factors for LPG came from 2008 Emission Inventory Data & Documentation (<http://www.epa.gov/ttn/chief/net/2008inventory.html>) Nonpoint section for Residential Heating: LPG Combustion Table 1. Commercial factors came from the ICI Workbook on the

same website created by EPA and ERTAC committee through a joint study. Factors have been rounded to one and two decimal places.

<b>LPG Emission Factors</b>							
	<b>NOx</b> (lbs./kbbl)	<b>CO</b> (lbs./kbbl)	<b>VOC</b> (lbs./kbbl)	<b>PM10-FIL</b> (lbs./kbbl)	<b>PM2.5-FIL</b> (lbs./kbbl)	<b>NH3</b> (lbs./kbbl)	<b>SO2</b> (lbs./kbbl)
Residential	562.8	159.6	21.91	0.8	0.44	1.95	2.39
Commercial	597.66	334.74	21.84	0.84	0.42	2.1	2.52

### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

### **Adjustments for Controls**

No controls are available for this source category.

### **Spatial and Temporal Allocations**

#### *Spatial*

MDE developed an allocation factor from local and state totals of annual heating degree days and housing units heating with liquid propane gas to spatially allocated liquid propane gas consumption. The method is documented and recommended by EIIP<sup>57</sup> in an Area Source Method Abstract for natural gas and LPG combustion.

A “heating degree day” is a unit of measure used to indicate how cold it has been over a 24-hour period. Daily heating degree days are calculated as the difference between the base value of 65°F and the mean temperature for the day (mean of the high and low temperatures for the day).

Annual heating degree days are the sum of the daily heating degree days. Heating degree data is available from the National Oceanographic and Atmospheric Administration (NOAA).<sup>58</sup>

$$\text{SAF}_{\text{INVENTORY COUNTY}} = \frac{\text{HDD}_{\text{INVENTORY COUNTY}} \times \text{LP-HU}_{\text{INVENTORY COUNTY}}}{\sum \text{ALL COUNTIES IN STATE} (\text{HDD}_{\text{COUNTY}} \times \text{LP-HU}_{\text{COUNTY}})}$$

<sup>57</sup> Emissions Inventory Improvement Program (EIIP) Area Source Method Abstract – Natural Gas and LPG Combustion, dated 2011

<sup>58</sup> <http://www.noaa.gov> (home page) or <http://www.ncdc.noaa.gov/ol/climate/climateproducts.html#PUBS> (for a list of available data)

Where:

SAF<sub>INVENTORY COUNTY</sub> = Spatial apportioning factor for inventory county  
HDD<sub>INVENTORY COUNTY</sub> = Annual heating degree days for inventory county  
LP-HU<sub>INVENTORY COUNTY</sub> = Housing units using LP gas for inventory county  
HDD<sub>COUNTY</sub> = Annual heating degree days for each county in the state  
LP-HU<sub>COUNTY</sub> = Housing units using LP gas for each county in the state

The spatial apportioning factor is used to allocate the state fuel total to the county level using the following equation:

LPG<sub>INVENTORY COUNTY</sub> = SAF<sub>INVENTORY COUNTY</sub> x LPG<sub>TOTAL STATE</sub>

Where:

LPG<sub>INVENTORY COUNTY</sub> = Total LPG fuel consumed in the inventory county  
LPG<sub>TOTAL STATE</sub> = Total LPG fuel consumed in the inventory county

### *Temporal*

In addition to space heating, liquid propane gas is often used for cooking and water heating. For ozone and other seasonal inventories, consumption for cooking and water heating may be assumed to be constant through the year, but fuel used for space heating must be apportioned according to heating needs.

## **Emissions Calculation**

### Emission Calculation

$$E_{LPGi} = \frac{(EF_{LPGp} \times LPG_{County i})}{2000}$$

$E_{LPGi}$  = Yearly emissions from liquid propane gas combustion in county i  
 $EF_{LPGp}$  = Emission factor for LPG combustion for pollutant p  
 $LPG_{County i}$  = LPG consumed for space heating in county i

### 2014 Residential LPG Combustion Sample Calculation (Baltimore City) (tons/year)

Total Residential LPG Consumption – State of Maryland 1,761 thousand barrels (kbbbl)  
To calculate spatial apportioning factor for Baltimore City:

$$SAF_{BALTIMORE CITY} = \frac{HDD_{INVENTORY COUNTY} \times LP-HU_{INVENTORY COUNTY}}{\sum_{ALL COUNTIES IN STATE} (HDD_{COUNTY} \times LP-HU_{COUNTY})}$$

$$SAF_{BALTIMORE CITY} = \frac{4,419 \times 2,055}{324,050,721}$$

$$SAF_{BALTIMORE CITY} = 0.0280235$$

To calculate thousand barrels of liquefied petroleum gas (LPG) used in Baltimore City:

$$\begin{aligned}\text{Residential LPG}_{\text{BALTIMORE CITY}} &= \text{SAF}_{\text{BALTIMORE CITY}} \times \text{LPG}_{\text{TOTAL STATE}} \\ \text{Residential LPG}_{\text{BALTIMORE CITY}} &= 0.0280235 \times 1,761 \\ \text{Residential LPG}_{\text{BALTIMORE CITY}} &= \mathbf{49.35 \text{ kbbl}}\end{aligned}$$

Equation:

$$E_{\text{LPGi}} = \frac{(\text{EF}_{\text{LPG voc}} \times \text{LPG}_{\text{County i}})}{2000}$$

$$E_{\text{LPGi}} = \frac{(21.91 \times \mathbf{49.35})}{2000}$$

$$\mathbf{E_{LPGi} = 0.54 \text{ tons voc per year}}$$

Daily Emissions Calculation

Residential LPG Consumption for Baltimore City was found to have a

SAF = seasonal adjustment factor of 0.06283113

POS = peak ozone period of 1

Days of the Period 31 (average days in summer month)

Daily adjusted  $E_{\text{LPGida}} = (E_{\text{LPGi}} / 31) \times (\text{SAF} / \text{POS})$

$$\mathbf{E_{LPGida} = (0.54 / 31) \times (0.06283113 / 1) = 1.10\text{E-}03 \text{ VOC tons/day}}$$

#### **4.1.6.7 Wood Combustion**

SCC:21 04 008 000 (Residential Wood Combustion)

##### **Description**

This source category covers air emissions from wood combustion in the residential sectors primarily for space heating and aesthetics. The inventory includes emission estimates for indoor wood-burning equipment (e.g. fireplaces, woodstoves, pellet stoves, furnaces/boilers) and outdoor wood burning equipment (e.g. outdoor fireplaces, fire pits, wood-fired barbecues, chimneys).

##### **Pollutants**

NO<sub>x</sub>, CO, VOC, PM<sub>10</sub>, PM<sub>2.5</sub>, NH<sub>3</sub>, SO<sub>2</sub>, and HAPs

##### **Method and Data Sources**

Maryland's Residential Wood Combustion Emission Inventory was calculated using a new EPA emissions estimation tool called the, RWC TOOL. A detailed explanation of how activity data and emission factors were developed in order to predict emissions for several states can be downloaded along with the RWC TOOL at EPA's FTP site. A collection of surveyed, census, housing tract, equipment use, and wood burned data was used in the tool along with EPA's estimation methodologies and statistics to create an emissions profile for Maryland that can be used repeatedly with a few periodic updates.

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

##### **Adjustments for Controls**

No controls are available for this source category.

##### **Emissions Calculation**

MDE ran EPA's RWC TOOL and accepted the emissions generated by the tool as the best estimates of Maryland's residential wood combustion at the present time.

#### 4.1.6.8 Commercial Cooking

SCC: 2302002100 (Conveyorized Charbroiling)  
2302002200 (Under-fired Charbroiling)  
2302003000 (Deep Fat Frying)  
2302003100 (Flat Griddle Frying)  
2302003200 (Clamshell Griddle Frying)

##### **Description**

This source category covers air emissions from commercial cooking in the Maryland area(s). These emissions (i.e. emissions from commercial cooking of meats) represent the “greatest sources of commercial cooking emissions. In particular, emissions of particulate matter (PM) and volatile organic compounds (VOCs) are the most significant. Of the cooking processes that have been identified, charbroiling is the most important air pollutant emissions contributor”<sup>59</sup>. It follows that this category includes the following meat sources: hamburger, steak, fish, pork, and chicken. And the five equipment types: chain-driven (conveyorized) charbroilers, under-fired charbroilers, deep fat fryers, griddles, and clam shell griddles.

##### **Pollutants**

PM, PM<sub>10</sub>, PM<sub>2.5</sub>, CO, VOC, HAPs

##### **Method and**

##### **Data Sources**

The recommended methods for calculating emissions and emission factors to commercial cooking possessing sources was obtained from Pechan Technical Memorandum (December 2003) and EIIP Web site Volume III, Area Sources document series methods and web link: [http://www.epa.gov/ttnchie1/eiip/techreport/volume03/charbroilingtechmemo\\_122303.pdf](http://www.epa.gov/ttnchie1/eiip/techreport/volume03/charbroilingtechmemo_122303.pdf). <http://www.epa.gov/ttnchie1/conference/ei13/pointarea/roe.pdf>.

##### **Activity**

Total number of restaurants was collected from County Business Patterns 2011 - Maryland, NAICS: 7221, Full-Service Restaurants and 72213, Limited Service Restaurants. Year 2011 restaurants statistics for Maryland's counties were collected from the U.S. Census Bureau Internet Website address (<http://www.census.gov/epcd/cbp/view/cbpview.html>). Table - 4.1.6.8-a shows CBP total number of Maryland County restaurants. MDE staff calculated the percent of county restaurant types (i.e. Ethnic Food, Fast Food, Family Food, and Seafood) reported in the Pechan Technical Memorandum. Table 4.1.6.8-b shows the percent of each restaurant type per county calculated from the Pechan Technical Memorandum. This percentage was applied to the total number of restaurants collected from the County Business Patterns to determine the number of each type of restaurant facility in each county<sup>60</sup>.

<sup>59</sup> Source: Adapted from PECHAN December 2003 Commercial Cooking Processes Technical Memorandum.

<sup>60</sup> Source: Adapted from County Business Patterns (CBP) and U.S. Census Bureau 2013 reports. Total may not be multiplier and divisional because of rounding.



Table 4.1.6.8-c gives average number of equipment pieces by restaurant type. Table 4.1.6.8-d shows average pounds of meat cooked on each type of equipment per week (lbs/week). And Table 4.1.6.8-e gives emission factors (lb/ton meat).

**Table 4.1.6.8-a 2013 CBPs'  
Total Number of County  
Restaurants**

County Name	NAICS Code 7221 & 72213
Allegany	55
Anne Arundel	444
Baltimore County	521
Calvert	56
Caroline	19
Carroll	114
Cecil	65
Charles	85
Dorchester	24
Frederick	173
Garrett	27
Harford	151
Howard	205
Kent	33
Montgomery	762
Prince George's	333
Queen Anne's	38
St Mary's	70
Somerset	11
Talbot	59
Washington	108
Wicomico	80
Worcester	191
Baltimore City	412

**Table 4.1.6.8-b                      Percent of Each County Restaurant Type<sup>3</sup>**

County Name	Ethnic	Fast Food	Family	Seafood	Steak & Barbeque
Allegany	17	27	8	0	5
Anne Arundel	115	202	49	42	14
Baltimore CO	148	240	58	39	14
Calvert	15	27	10	10	3
Caroline	2	9	1	1	13
Carroll	23	69	17	4	3
Cecil	15	34	8	5	3
Charles	25	45	14	9	5
Dorchester	3	13	4	8	1
Frederick	44	79	29	11	3
Garrett	3	16	10	0	1
Harford	35	80	13	15	7
Howard	71	110	16	8	5
Kent	3	14	10	7	0
Montgomery	332	314	50	16	22
Prince George's	97	168	24	20	16
Queen Anne's	3	21	1	17	2
St Mary's	12	28	11	11	7
Somerset	0	6	3	5	0
Talbot	11	27	6	13	2
Washington	27	56	16	10	1
Wicomico	22	34	8	12	3
Worcester	46	80	19	35	9
Baltimore City	109	238	29	32	9

**Table 4.1.6.8-c Percent of Restaurants with each type of cooking equipment<sup>1, 2</sup>**

Restaurant Category	Chain-Driven Charbroilers (ufc) Rest	Underfired Charbroilers (ufc) Rest.	Deep-Fat Fryers (dff) Rest.	Flat Griddles (fg) Rest.	Clamshell Griddles (cg) Rest.
Ethnic	3.5	47.5	81.9	62.7	4
Fast Food	18.6	30.8	96.8	51.9	14.7
Family	10.1	60.9	91.4	82.9	1.4
Seafood	0	52.6	100	36.8	10.5
Steak & Barbeque	6.9	55.2	82.8	89.7	0

Note: Divide decimal numbers in Table 4.1.6.8-b by 100 to change % into fraction values.

**Table 4.1.6.8-d Average Number of Equipment Pieces by Restaurant Type<sup>1, 2</sup>**

Restaurant Category	Chain-Driven Charbroilers (ufc) Rest	Underfired Charbroilers (ufc) Rest.	Deep-Fat Fryers (dff) Rest.	Flat Griddles (fg) Rest.	Clamshell Griddles (cg) Rest.
Ethnic	1.62	1.54	1.63	1.88	1.8
Fast Food	1.07	1.58	3.1	1.43	2.09
Family	1.71	1.29	2.34	2.03	0
Seafood	0	1.1	2.47	1.11	1.5
Steak & Barbecue	0	1.63	2.42	1.35	0

**Table 4.1.6.8-e Average Pounds of Meat Cooked on Each Type of Equipment Per Week<sup>1, 2</sup>**  
(lbs/week)

Type of Meat	Chain-Driven Charbroilers (ufc) Rest	Underfired Charbroilers (ufc) Rest.	Deep-Fat Fryers (dff) Rest.	Flat Griddles (fg) Rest.	Clamshell Griddles (cg) Rest.
Steak	236	180	181	166	94
Hamburger	798	270	274	362	1314
Poultry, with Skin	147	144	365	88	113
Poultry, Skinless	266	179	208	111	108
Pork	57.6	148	58.6	112	118
Seafood	119	143	159	92.1	632
Other	0	41.5	274	57.5	0

## Emission Factors

**Table 4.1.6.8-f Emission Factor (lb/ton meat)<sup>1, 2</sup>**

Equipment Type (fuel)	SCC	Meat/Food	PM	PM10	PM2.5	CO	NOX	VOC
Under fired- charbroiler		Beef	16.2	15	14.2	327	4.8	9.4
(charcoal) (ufc)		Beef (marinated)	19	18.4	17.4	335.2	7.2	11.6
Rest.	2302002200	Chicken (marinated)	19.6	18.8	18.2	315.8	8.4	9
		Hamburger (25%fat)	65.4	65.4	63.8	27.44	0	7.88
Under fired- charbroiler (natural gas) (ufc) Rest.	2302002200	Steak	34.4	34.4	33.6	9.94	0	1.72
		Chicken (whole)	21.0	21.0	19.8	9.68	0	3.64
		Seafood	6.6	6.6	6.4	0	0	0.76
Conveyorized Charbroiler (natural gas) (cdc) Rest.	2302002100	Hamburger (21%fat)	14.8	14.8	14.6	16.58	0	4.54
		Shoestring potatoes	0	0	0	0	0	0.42
Deep fat fryer (natural gas) (dff)		Breaded chicken	0	0	0	0	0	0.24
Rest.	2302003000	Breaded fish	0	0	0	0	0	0.28
		Hamburger (24% fat)	10	10	7.6	0.76	0	0.14
Griddle (electric) (fg)		Chicken (boneless breast)	0	0	0	0.9	0	0.8
Rest.	2302003100	Seafood	0	0	0	0	0	0.22
		Hamburger (24% fat)	1.7	1.7	1.44	0	0	0.02
Double-sided (clamshell) Griddle		Chicken	0	0	0	0	0	0.114285714
(electric) (cg) Rest.	2302003200	Seafood	0	0	0	0	0	0.031428571

### Point Source Adjustments

No point source subtraction of emissions.

### Adjustments for Controls

No adjustments for controls in Maryland for this source.

### Spatial and Temporal Allocations

#### *Spatial*

Data for spatial allocation is the number of restaurant per county from CBPs'.

#### *Temporal*

Emissions were averaged according to period of operation to a daily estimate. See section 2.2.1.

## Emissions Calculation

The following steps were used to calculate commercial cooking emissions for Maryland:

- i. Multiply total restaurants in a county (i.e. from CBPs' data source) by percent (%) type of restaurant (i.e. from Pechan document) Table 4.1.6.8-a, and Table 4.1.6.8-b.
- ii. Multiply county-level facility counts by the fraction (i.e. percent) of restaurants with each type of cooking equipment (Table 4.1.6.8-c).
- iii. Multiply number of restaurants with each type of cooking equipment by number of pieces of equipment (Table 4.1.6.8-d).
- iv. Sum number of pieces of cooking equipment across restaurant types.
- v. Multiply total summed number of pieces of cooking equipment per restaurant types by average pounds of meat cooked on each type of equipment per week (Table 4.1.6.8-e).
- vi. Finally, multiply results from v by emission factor (lb/ton meat) (Table 4.1.6.8-f) and divided emission values by 2000 by 365 for daily lbs/ton unit.

$$B_{poe}$$

$$E_{CC} = (N * (\text{Frac}_n / 100)) * D_{tn} * \text{Sum}_{all} * \text{Meat}_{type} * EF_{\text{meat type}} / 2000$$

Where:

- $E_{CC}$  = Commercial Cooking Emissions in pound (lbs) per tons (i.e. Activity data times  $EF_{\text{meat type}}$ ) for county per restaurant food type and equipment type SCC.
- $N$  = Total number of food restaurants in county
- $\text{Frac}_n$  = Fraction of restaurant type for that type of cooking equipment.
- $B_{poe}$  = Number of food restaurants for SCC with restaurants type of equipment.
- $D_{tn}$  = Total number of restaurants type of equipment at food restaurant.
- $\text{Sum}_{all}$  = Total number of summed of pieces of cooking equipment across restaurant type.
- $\text{Meat}_{type}$  = Total pounds per week of meat type cooked on restaurants equipment in county.
- $EF_{\text{meat type}}$  = Meat type emission factor (lb/ton meat).

Example 2011 Commercial Cooking Emission Calculation for Baltimore County, Fast Food Restaurant Type, SCC 2302002100, Chain-Driven Charbroiler (Conveyorized). **Note:** Emissions are calculated for only a particular county, restaurant, food equipment, and food type. In order to determine emission for a particular county, all emission for meat types must be summed at the equipment level and multiply by the appropriate meat type emission factor.

### Step i.

$$E_{BC,cdc,FFood}^3 = (N * (\text{Frac}_n / 100)) = 521 * (47.98 / 100) = 250.00$$

Total number of businesses in Baltimore County times % of FF restaurant by CBP  
Number of fast food (FF) restaurants in Baltimore County is 250.00

**Step ii.** $E^3_{BC,cdc,}$ 

$$\frac{FFood}{E^3_{BC,cdc,}} = 250.00 \cdot (18.6/100) = 46.5$$

The number of FF restaurants times % of restaurants with cdc equipment

The number of cdc restaurants in Baltimore County is 46.5

**Step iii.** $E^3_{BC,cdc,}$ 

$$\frac{Fast\ food}{E^3_{BC,cdc,}} = 46.5 \cdot 1.07 = 49.76$$

The number of cdc restaurants times average cdc pieces of equipment for that restaurant type

**Step iv.** $Sum_{all,}$ 

$$\frac{E^3_{BC,cdc,}}{Fast\ food} = 49.76$$

Fast food

Total pieces of cdc equipment for fast food restaurants in Baltimore County.

**Step v.**

Do steps 1 thru 4 again for the following restaurants: Ethnic, Family, Seafood, and Steak and Barbecue.

The total pieces of cdc equipment for each restaurant type will be 8.73, 10.54, 0, and 0 respectively. (Plus 49.76 for fast food)

$Sum_{all} = 69.02$  Total number of summed of pieces of cdc equipment across restaurants

Average amount of meats cooked on cdc equipment each week

Steak 236 lbs

Hamburger 798 lbs

Poultry, with skin 147 lbs

Poultry, skinless 266 lbs

Pork 57.6 lbs

Seafood 119 lbs

## Calculating PM10-PRI for Chain-Driven Charbroilers (cdc) restaurant in Baltimore County

### Step vi.

$$\begin{aligned}
 \text{Meat}_{\text{steack}} &= 69.02 \times 236 = 16,288.72 \text{ lbs} \\
 \text{Meat}_{\text{Hamburger}} &= 69.02 \times 798 = 55,077.96 \text{ lbs} \\
 \text{Meat}_{\text{Poultryskin}} &= 69.02 \times 147 = 10,145.94 \text{ lbs} \\
 \text{Meat}_{\text{Poultryskinless}} &= 69.02 \times 266 = 18,359.32 \text{ lbs} \\
 \text{Meat}_{\text{Pork}} &= 69.02 \times 57.6 = 3,975.55 \text{ lbs} \\
 \text{Meat}_{\text{Seafood}} &= 69.02 \times 119 = 8,213.38 \text{ lbs}
 \end{aligned}$$

$$\text{ECC}_{\text{SteackCDC}} = (16,288.72 \times 14.8) / 2000 / 39 = 3.09 \text{ tons PM10-PRI}$$

$$\text{ECC}_{\text{HamburgerCDC}} = (55,077.96 \times 14.8) / 2000 / 39 = 10.45 \text{ tons PM10-PRI}$$

$$\text{ECC}_{\text{Poultryskin}} = (10,145.94 \times 21) / 2000 / 39 = 2.73 \text{ tons PM10-PRI}$$

$$\text{ECC}_{\text{PoultryskinlessCDC}} = (18,359.32 \times 21) / 2000 / 39 = 4.94 \text{ tons PM10-PRI}$$

$$\text{ECC}_{\text{PorkCDC}} = (3,975.5 \times 2) / 2000 / 39 = 1.07 \text{ tons PM10-PRI}$$

$$\text{ECC}_{\text{SeafoodCDC}} = (8,213.38 \times 6.6) / 2000 / 39 = 0.69 \text{ tons PM10-PRI}$$

Total Baltimore County Ecc for CDC Conveyorized (sum all emissions)

$$\text{ECC}_{\text{BaltoCOCDC}} = \mathbf{22.98 \text{ tons PM10-PRI per year}}$$

### Daily Emissions Calculation

Chain-Driven Charbroilers for Baltimore County was found to have a

SAF = seasonal adjustment factor of 0.333333333

POS = peak ozone period of 0.25

Days of the Period 365

$$\text{Daily adjusted } \text{ECC}_{\text{BaltoCOCDCda}} = (\text{ECC}_{\text{BaltoCOCDC}} / 365) * (\text{SAF} / \text{POS})$$

$$\text{ECC}_{\text{BaltoCOCDCda}} = (22.98 / 365) * (0.333333333 / 0.25) = \mathbf{8.40E-02 \text{ PM10-PRI tons/day}}$$

#### 4.1.7 FUGITIVE SOURCES

Other area sources include forest fires, slash and prescribed burning, agricultural burning, structure fires, orchard heaters, leaking underground storage tanks and natural organic sources. Although often intermittent in nature, many of these sources can produce large quantities of air pollutant emissions.

##### 4.1.7.1 Residential Construction Activity

SCC: 23 11 010 000

#### **Description**

This source category covers fugitive dust emissions from residential construction activities.

#### **Pollutants**

PM<sub>10</sub>, PM<sub>2.5</sub>, and HAPs

#### **Method and Data Sources**

##### *Activity*

For residential construction, housing permit data for single-family units, two-family units, and apartments were obtained at the county level from the U.S. Department of Commerce's (DOC) Bureau of the Census.

Estimated the number of buildings in each category, and then estimated the total acres disturbed by construction by applying conversion factors to the housing start data for each category as follows:

- Single-family  $\frac{1}{4}$  acre/building
- Two-family  $\frac{1}{3}$  acre/building
- Apartment  $\frac{1}{2}$  acre/building

Housing construction PM<sub>10</sub> emissions are calculated using an emission factor of 0.032 tons PM<sub>10</sub>/acre/month, the number of housing units created a units-to-acres conversion factor, and the duration of construction activity. The duration of construction activity for houses is assumed to be 6 months.

Apartment construction emissions are calculated separately using an emission factor of 0.11 tons PM<sub>10</sub>/acre/month; with a 12 months period assumed for apartment construction.

For areas in which basements are constructed to estimate the cubic yards of dirt moved per house, an average value of 2000 square feet is assumed for both single family and two-family homes. Multiplying the average total square feet by an average basement depth of 8



feet and adding in 10 percent of the cubic feet calculated for peripheral dirt removed produces an estimate of the cubic yards of earth moved during residential construction. The percentage of one-family houses with basements was obtained from the DOC. The percentage of houses per Census region (Northeast, Midwest, South, and West) that contain full or partial basements is applied to the housing start estimates for each of these respective regions. The best available control measures (BACM) Level 2 equation (emission factor of 0.011 tons PM<sub>10</sub>/acre/month plus 0.059 tons PM<sub>10</sub>/1000 cubic yards of on-site cut/fill) is applied once the number of acres disturbed due to the estimated number of houses built with basements is determined.

**Table 4.1.7.1-a *Emission Factors***

	<b>Single-family Construction</b> ton PM <sub>10</sub> /acre/month	<b>Two-family Construction</b> ton PM <sub>10</sub> /acre/month	<b>Multi-family Construction</b> ton PM <sub>10</sub> /acre/month
PM <sub>10</sub> Emission Factor	0.032	0.032	0.11
Duration of Activity	6 months	6 months	12 months

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustments for Controls**

No controls are available for this source category.

#### **Spatial and Temporal Allocations**

##### *Spatial*

Data for spatial allocation is not available for this source.

##### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

$$E_{RC\ i} = E_{RC-SFH} + E_{RC-2FAM} + E_{RC-MF}$$

Where:

$E_{RC\ i}$  = Emissions of pollutant i in tons per year from residential construction activity

$E_{RC-SFH}$  = Emissions of pollutant i in tons per year from residential single-family home construction activity

$E_{RC-2FAM}$  = Emissions of pollutant i in tons per year from residential two-family home construction activity

$E_{RC-MF}$  = Emissions of pollutant i in tons per year from residential multi-family construction activity

and:

$$E_{RC-SFH} = E_{RC-SFH, w\ BM} + E_{RC-SFH, w/o\ BM}$$

Where:

$E_{RC-SFH, w\ BM}$  = Emissions of pollutant i in tons per year from residential single-family home construction activity of homes with basements

$E_{RC-SFH, w/o\ BM}$  = Emissions of pollutant i in tons per year from residential single-family home construction activity of homes without basements

$$E_{RC-SFH, w/o\ BM} = \frac{HS_{SFH} \times (1 - HS_{SFH, w\ BM}) \times (AD_{RC-SFH}) \times (PD_{RC-SFH}) \times EF_{RC-SFH}}{2000}$$

Where:

$E_{RC-SFH, w/o\ BM}$  = Emissions of pollutant i in tons per year from residential single-family home construction activity

$HS_{SFH}$  = Residential single-family housing starts

$HS_{SFH, w\ BM}$  = Percent of residential single-family housing starts with basements

$AD_{RC-SFH}$  = Acres disturbed per housing type (residential single-family)

$PD_{RC-SFH}$  = Average project duration in months

$EF_{RC-SFH\ i}$  = Emissions factor in tons PM10/acre/month for pollutant i

$E_{RC-SFH, w\ BM}$  = Emissions from residential construction + Emissions from basement excavation

$$E_{RC-SFH, w\ BM} = \frac{[HS_{SFH} \times HS_{SFH, w\ BM} \times (AD_{RC-SFH}) \times (PD_{RC-SFH}) \times EF_{RC-SFH}] + [HS_{SFH} \times HS_{SFH, w\ BM} \times AHS_{RC-SFH} \times ABD_{RC-SFH} \times PDE_{RC-SFH} \times EF_{Acres-Disturb}]}{2000}$$

where:

$E_{RC-SFH, w BM}$  = Emissions of pollutant i in tons per year from residential single-family home construction activity

$HS_{SFH}$  = Residential single-family housing starts

$HS_{SFH, w BM}$  = Percent of residential single-family housing starts with basements

$AD_{RC-SFH}$  = Acres disturbed per housing type (residential single-family)

$PD_{RC-SFH}$  = Average project duration in months

$EF_{RC-SFH i}$  = Emissions factor in tons PM<sub>10</sub>/acre/month for pollutant i

$AHS_{RC-SFH}$  = Average residential single-family house size (national default = 2000 ft<sup>2</sup>)

$ABD_{RC-SFH}$  = Average basement depth for residential single-family homes (national default = 8 ft)

$PDE_{RC-SFH}$  = Peripheral dirt excavated for residential single-family homes (national default = 10 percent)

$EF_{Acres-Disturb}$  = Emissions factor for the acres disturbed during basement excavation activities during residential single-family home construction in tons PM<sub>10</sub>/1000 cubic yards

#### 4.1.7.2 Heavy Construction Activity

SCC: 23 11 020 000

##### **Description**

Emissions produced from the construction of nonresidential buildings are estimated using the value of construction put in place. The national value of construction put in place is obtained from the Bureau of the Census<sup>61</sup>. The national value of construction put in place is allocated to the state level using non-residential building construction employment data within NAIC Code 2362 obtained from 2010 County Business Patterns<sup>62</sup>. The state value of construction put in place is allocated to the county level using non-residential building construction employment data within NAIC Code 2362 obtained from the 2010 County Business Patterns for the State of Maryland.

##### **Pollutants**

PM<sub>10</sub> and PM<sub>2.5</sub>

##### **Method and Data Sources**

###### *Activity*

ARA used data from the U.S. Census Bureau on the national value of construction put in place- Not Seasonally Adjusted. The national value of construction put in place is allocated to the state level and then to the county level using non-residential building construction employment data within NAIC 2362 obtained from 2013 County Business Patterns.

A conversion factor of 2.2902276 acres/10<sup>6</sup> dollars (\$) is applied to the construction valuation data. This conversion factor is developed by adjusting the 1999 value of 2 acres/\$10<sup>6</sup> to 1999 - 2014 constant dollars using The Bureau of Labor Statistics *Producer Price Index*<sup>63</sup> for Construction. The duration of construction activity for nonresidential construction is estimated to be 11 months.

Employee numbers were taken from County Business Patterns 2013 - Maryland, NAIC 2362, Non-residential Building Construction (see Appendices). Some county employment data is represented by a letter code indicating a range for the number of employees for that NAIC. In this case the arithmetic average number of employees per letter code per county was adjusted so that the state total employment in a NAIC matched the sum of the number of employees reported per county.

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<sup>61</sup> Bureau of Census, Annual Value of Construction Put in Place - Not Seasonally Adjusted in the United States: 2013

<sup>62</sup> U.S. Census Bureau, County Business Patterns, NAIC Code 2362, Industry Nonresidential Building Construction 2013

<sup>63</sup> U.S. Census Bureau, County Business Patterns, 2013

**Table 4.1.7.2-a *Emission Factors***

	PM <sub>10</sub> (tons/acre/month)	PM <sub>2.5</sub> (tons/acre/month)
Emissions	0.11	20% of PM <sub>10</sub>
Duration of Project	11 months	

**Point Source  
Adjustments**

No subtraction of emissions from point sources is necessary.

**Adjustments  
for Controls**

No controls are available for this source category.

**Spatial and  
Temporal  
Allocations**

*Spatial*

Data for spatial allocation is not available for this source.

*Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

**Emissions  
Calculation**

Value of Construction Work  
in the U.S. - HC<sub>J</sub>      **\$347,666,000,000**

Number of Employees  
within NAIC 2362 in the      562,270  
U.S. - EMP<sub>US</sub>

Number of Employees  
within NAIC 2362 in      12967  
Maryland

$$E_{HC,i} = HC_j \times (EMP_j / EMP_{US}) \times CF_{HC} \times AEF_{HC,i} \times DC_{HC}$$

where:

$$\begin{aligned} E_{HC,i} &= \text{Emissions of pollutant } i \text{ in tons per year from heavy construction} \\ HC_j &= \text{Value of Heavy construction in US } j \text{ in 2014} \\ EMP_{US} &= \text{Employment NAICS 2362 US in 2013} \\ EMP_j &= \text{Employment NAICS 2362 County } j \text{ in 2013} \\ CF_{HC} &= \text{Conversion factor (acres/million dollars) for heavy construction (2.29)} \\ AEF_{HC,i} &= \text{Adjusted Emissions factor in tons per acre per month for pollutant } i \\ DC_{HC} &= \text{Duration of construction activity (11 months)} \end{aligned}$$

### 2014 Sample Calculation Heavy Construction (Baltimore City)

Number of Employees within NAIC 2362 in Baltimore City 470

PE = precipitation-evaporation value for each State,  
S = % dry silt content in soil for area being inventoried

$$AEF_{HC,PM_{10}} = \text{Initial } EF_{HC,i} \times (24/PE) \times (S/9\%)$$

$$AEF_{HC,PM_{10}} = 0.19(PM_{10}) \times (24/114.1) \times (52/9\%)$$

$$AEF_{HC,PM_{10}} = 0.2309$$

$$E_{HC,PM_{10}} = HC_j \times (EMP_j / EMP_{US}) \times CF_{HC} \times EF_{HC,i} \times DC_{HC}$$

$$E_{HC,PM_{10}} = 347,666 \times (470 / 562,270) \times 2.2902276 \times 0.2309 \times 11$$

$$E_{HC,PM_{10}} = 1690.54 \text{ tons/year } PM_{10}$$

Daily Emissions Calculation

Heavy Construction for Baltimore City was found to have a

SAF = seasonal adjustment factor of 0.260459225

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted  $E_{HC,PM_{10}da} = (E_{HC,PM_{10}} / 365) \times (SAF / POS)$

$$E_{HC,PM_{10}da} = (1690.54 / 365) \times (0.260459225 / 0.25) = 4.83E+00 \text{ } PM_{10} \text{ tons/day}$$

#### 4.1.7.3 Road Construction Activity

SCC: 23 11 030 000

##### **Description**

This source category covers fugitive dust emissions from road construction activity. PM<sub>10</sub> emissions produced by road construction are estimated using an emission factor for heavy construction and the State capital outlay for new road construction.

##### **Pollutants**

PM<sub>10</sub> and PM<sub>25</sub>

##### **Method and Data Sources**

###### *Activity*

To estimate the acres disturbed by road construction, the Federal Highway Administration (FHWA) has *Highway Statistics, Section IV - Highway Finance, Table SF-12A, State Highway Agency Capital Outlay*<sup>1</sup> for 2013 which outlines spending by state in several different categories. For this SCC, the following columns are used: New Construction, Relocation, Added Capacity, Major Widening, and Minor Widening. These columns are also differentiated according to the following six classifications:

- Interstate, urban
- Interstate, rural
- Other arterial, urban
- Other arterial, rural
- Collectors, urban
- Collectors, rural

Dollar expenditures are converted to miles constructed using data obtained from the North Carolina Department of Transportation (NCDOT) in 2000. A conversion of \$4 million/mile is applied to the interstate expenditures. For expenditures on other arterial and collectors, a conversion factor of \$1.9 million/mile is applied, which corresponds to all other projects.

Miles are converted to acres for each of the 6 road type areas using the following estimate of acres disturbed per mile:

- Interstates: Urban, Rural, and Urban Other Arterial - 15.2 Acres Disturbed/mile
- Rural, Other Arterials - 12.7 Acres Disturbed/mile
- Urban, Collectors - 9.8 Acres Disturbed/mile
- Rural, Collectors - 7.9 Acres Disturbed/mile

### ***Emission Factors***

A PM<sub>10</sub> emission factor of 0.42 tons/acre/month is used to account for the large amount of dirt moved during the construction of roadways. The duration of construction activity for road construction is estimated to be 12 months.

PM<sub>25</sub> emissions are estimated by applying a particle size multiplier of 0.10 to PM<sub>10</sub> emissions.

### ***Soil Moisture Level***

To account for the soil moisture level, base emissions were multiplied by 24 divided by the precipitation-evaporation (PE) value. Precipitation-Evaporation (PE) values were obtained from Thornthwaite's PE Index. Average PE values for each State were estimated based on PE values for specific climatic divisions within a State.

### ***Silt Content***

To account for the silt content, base emissions were multiplied by percent dry silt content in soil divided by 9 percent. A data base containing county-level dry silt values were applied to PM<sub>10</sub> emissions for each county. These values were derived by applying a correction factor developed by the California Air Resources Board to convert wet silt values to dry silt values.

## **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

## **Adjustments for Controls**

For construction emissions, a control efficiency of 50 percent is used for both PM<sub>10</sub> and PM<sub>2.5</sub> for PM nonattainment areas. It is assumed that water techniques used statewide, reduce emissions by 50%.

## **Spatial and Temporal Allocations**

### ***Spatial***

State-level estimates of acres disturbed are distributed to counties according to the housing starts per county, estimated for the residential construction category.

### ***Temporal***

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1



## Emissions Calculation

$$E_{RC,i} = \frac{Exp \times MC_i \times AD_i \times EF_{RC,i} \times DUR}{2000}$$

where:

- $E_{RC,i}$  = Emissions of pollutant i in tons per year from road construction
- $Exp_{RC,i}$  = Expenditures per road type i
- $MC_{RC,i}$  = Miles constructed per road type i
- $AD_i$  = Acres disturbed per road type i
- $EF_{RC,i}$  = Emissions factor (tons per acre per month for pollutant i)
- $DUR$  = Duration of project (months)

This calculation would have to be made for each road classification in a county and then summed to get total for that pollutant for that county.

#### 4.1.7.4 Agricultural Land Preparation

SCC: 28 01 000 003

##### **Description**

The land preparation source category includes estimates of the airborne soil particulate emissions produced during the preparation of agricultural lands for planting and after harvest activities. Operations included in this methodology are dicing, tilling, leveling, chiseling, plowing, and other mechanical operations used to prepare the soil. Dust emissions are produced by the mechanical disturbance of the soil by the implement used and the tractor pulling it. Soil preparation activities tend to be performed in the early spring and fall months.

Particulate emissions from land preparation operations are computed by multiplying an emission factor (EF) by an activity factor. The agricultural tilling emission factor provided in the 4th edition of U.S. EPA's AP-42 document is used to estimate soil preparation emissions. The activity factor is based on the number of acres of each crop in production for each county in the State. Because different crops need different operations to prepare the soil, each crop also has its own acre-pass value. Acre-passes are the number of passes, per acre, that are typically needed to prepare a field for planting a particular crop. By combining the crop acreage, crop specific acre-pass data, and the agricultural tilling emission factor, we estimate the particulate matter produced by agricultural land preparation operations.

Agricultural soil preparation particulate dust emissions are estimated *for each crop* in each county in Maryland using the following equation:

$$\text{Emissions}_{\text{CROP}} = \text{Emission Factor} \times \text{Acres}_{\text{CROP}} \times \text{Acre-passes/acre}_{\text{CROP}}$$

The crop emissions for each county are summed to produce the county and statewide particulate matter (PM) and PM emission estimates.

##### **Pollutants**

PM<sub>10</sub> and PM<sub>2.5</sub>

##### **Method and Data Sources**

###### *Activity*

The acreages used for estimating soil preparation emissions were collected from the United States Department of Agriculture and the National Agricultural Statistics Service. A summary of crop acreage harvested in 2014 from individual county agricultural commissioner reports was used to calculate emissions. In computing land preparation PM

emissions, acre-passes are the number of passes typically performed to prepare a crop for planting. These operations may occur following harvesting or closer to planting, and can include dicing, tilling, land leveling, and other operations. Each crop is different in the type of soil operations performed and when they occur. MDE used acre-pass estimates compiled by the California Air Resources Board (CARB). For the crops that were not explicitly updated, we either applied an updated crop profile from a similar crop, or used one of the existing CARB profiles.

### *Emission Factors*

The emission factor used to estimate the dust emissions from agricultural land preparations is from U.S. EPA's AP-42<sup>64</sup>. This emission factor was developed in 1981 based on test data measured in California and Kansas by Midwest Research Institute. Because of a lack of more detailed estimates, this single emission factor is used for all land preparation operations, all locations, and all seasons. The form of the emission factor is:

$$\text{Emission Factor (lbs PM/acre-pass)} = k (4.8) (s)^{0.6}$$

Where:

- k = particle size fraction of interest (EPA default = 0.042 for PM<sub>2.5</sub> or 0.21 for PM<sub>10</sub>)
- s = average percent soil silt content (EPA default = 18%)

For PM the value of 'k' used in California is 0.148. This is based on the EPA estimate that 33% of the total particulate entrained to the air during agricultural operations is 30 microns or less. Of this, analysis of California soil samples indicates that about 45% of the 30 micron or less sized particles are 10 microns or less in aerodynamic size (i.e., PM<sub>10</sub>). So, the California PM particle size multiplier is 0.148 (i.e., 0.33 x 0.45 = 0.148). Maryland decided to use the EPA default values listed above for the particle size fraction. For the percent soil silt value, the EPA default value of 18% soil silt is used for most counties.

Emission Factor	PM <sub>2.5</sub>	PM <sub>10</sub>
	(Lbs. PM <sub>2.5</sub> /acre-pass)	(Lbs. PM <sub>10</sub> /acre-pass)
	1.141968254	5.709841268

The EPA emission factor does not include an association between soil moisture and emissions. Because it is known that dust emissions are reduced when soil moisture is higher, California ARB staff has incorporated an emission correction during the wettest months of the year. The correction was based on some limited agricultural dust source test data, as well as the control factor used for watering at construction sites and their best judgment. During December and March, California ARB reduced the emission factor by

<sup>64</sup> U.S. Environmental Protection Agency. Compilation of Air Pollutant Emission Factors, AP-42, Section 11.2.2, Fourth Edition September 1985.

25% from the standard uncorrected value. In January and February, often the wettest months, the emission factor is reduced by 50%. This produces a seasonal emissions profile that is more consistent with California's actual ambient air dust levels, and also better reflects that soil preparation operations typically do not occur while the soil is excessively wet or muddy.

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustments for Controls**

No controls are available for this source category.

#### **Spatial and Temporal Allocations**

##### *Spatial*

Crop acreages are collected on a county basis.

##### *Temporal*

Data for temporal allocation is not available for this source in Maryland.

In collecting updated acre-pass data, California also collected detailed information on when agricultural operations occur. Using these data, it was possible to create detailed temporal profiles that help to indicate when PM emissions from land preparations may be highest. The more detailed background document includes detailed crop calendars for each crop with updated information. For all of the acre-pass and crop calendar information, the farmers and other agricultural experts of the San Joaquin Valley were instrumental in helping us to update our crop information.

#### **Emissions Calculation**

$$E_{ALP\ i} = \frac{EF_{ALP\ i} \times A_i \times AP_i}{2000}$$

where:

- $E_{ALP}$  = Annual PM emissions of pollutant i in tons per day from agricultural land preparations.
- $EF_{ALP\ i}$  = Emissions factor in pounds per acre-pass for pollutant i
- $A_i$  = Acres of crop I harvested in county j in 2014

AP<sub>i</sub> = Acre-passes per acres for crop i

#### 2014 Sample Calculation Agricultural Land Preparation (Baltimore County)

$$E_{ALP\ PM2.5} = \frac{EF_{ALP\ PM2.5} \times [(A_{wheat} \times AP_{wheat}) + (A_{corn-gr} \times AP_{corn-gr}) + (A_{hay} \times AP_{hay}) + (A_{soy} \times AP_{soy}) + (A_{barley} \times AP_{barley})]}{2000}$$

$$E_{ALP\ PM2.5} = (1.141968254 \times [(0 \times 1) + (17,700 \times 4) + (0 \times 1) + (14,400 \times 6) + (0 \times 1)]) / 2000$$

$$E_{ALP\ PM2.5} = (1.141968254 \times 157,200) / 2000$$

$$E_{ALP\ PM2.5} = \mathbf{89.76 \text{ tons per year of PM}_{2.5}}$$

#### Daily Emissions Calculation

Agricultural Land Preparation for Baltimore County was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 365

$$\text{Daily adjusted } E_{ALP\ PM2.5\ da} = (E_{ALP\ PM2.5} / 365) \times (SAF / POS)$$

$$E_{ALP\ PM2.5\ da} = (89.76 / 365) \times (0.25 / 0.25) = \mathbf{2.46E-01 \text{ PM}_{2.5} \text{ tons/day}}$$

#### 4.1.7.5 Paved Roads

SCC: 22 94 000 000

##### Description

This source category covers fugitive dust emissions from activity on paved roads. ONLY A GENERAL OUTLINE OF HOW THIS SOURCE WAS CALCULATED WILL BE GIVEN DUE TO THE LARGE NUMBER OF CALCULATIONS NEEDED TO SHOW A SAMPLE CALCULATION FOR ANY ONE COUNTY.

##### Pollutants

PM<sub>10</sub> and PM<sub>2.5</sub>

##### Method and Data Sources

###### *Activity*

The basis for the activity data for fugitive dust emissions from paved roads is the state-level vehicle miles traveled per paved road type and the state-level vehicle miles traveled per unpaved road per road type.

###### *Emission Factors*

To calculate emissions for Paved Roads we used The Predictive Emission Factor Equation 13.2.1.3 from AP-42, Fifth Edition Vol. I Chapter 13: Miscellaneous Sources and the particle size multipliers, k from Table 13.2.1-1. Several factors used for Paved Road emissions calculations came from 2008 Emission Inventory Data & Documentation (<http://www.epa.gov/ttn/chief/net/2008inventory.html>) Nonpoint section for Paved Roads. Such as, Silt Loading factors for Maryland from Table 2, factors below:

Roadway Class	$sL$ (g/m <sup>2</sup> )
Rural Interstate	0.015
Rural Other Principal Arterial	0.03
Rural Minor Arterial	0.06
Rural Major Collector	0.2
Rural Minor Collector	0.2
Rural Local	0.6
Urban Interstate	0.015
Urban Other Freeways and Expressways	0.015
Urban Other Principal Arterial	0.03
Urban Minor Arterial	0.03
Urban Collector	0.06
Urban Local	0.2

$$EF_N = [(k) \times (sL)^{0.91} \times (W)^{1.02}] \times (1-P/4N)$$

$EF_N$  = A calculated emission factor for a given road type in a month having  $N$  days

$k$  = particle size multiplier; particle size range and units used were 0.015 (lb/VMT) for PM10, and 0.0037 (lb/VMT) for PM2.5 from EPA AP-42 Table 13.2.1-1. PARTICLE SIZE MULTIPLIERS FOR PAVED ROAD EQUATION

$sL$  = road surface silt loading (grams per square meter) ( $g/m^2$ ),

$W$  = average weight (tons) of the vehicles traveling the road (Maryland estimates the average wt. to be 6,360 pounds or 3.18 tons)

$P$  = Number of days in a month with greater than or equal to 0.1 inch of precipitation, BUT > 0.01 inches

$N$  = number of days in the averaging period (e.g., 365 for annual, 91 for seasonal, 30 for monthly).

A temporal VMT fraction factor was supplied by which was used to breakdown yearly VMT into seasonal and then monthly VMT (millions of miles by road type).

**Table 4.1.7.5-a**

Look-Up	RUR_URB	SEASON	VMTRAC
RURALWINTER	RURAL	WINTER	0.2199
RURALSPRING	RURAL	SPRING	0.2403
RURALSUMMER	RURAL	SUMMER	0.2845
RURALLFALL	RURAL	FALL	0.2553
URBANWINTER	URBAN	WINTER	0.236
URBANSRING	URBAN	SPRING	0.2547
URBANSUMMER	URBAN	SUMMER	0.264
URBANFALL	URBAN	FALL	0.2453

A Transport factor ( $TF$ ) also of 1, was used in estimation.

Allegany County Rural Interstate emissions example calculation:

$$EF_N = [(k) \times (sL)^{0.91} \times (W)^{1.02}] \times (1-P/4N)$$

$$EF_N = [(0.0022) \times (0.015)^{0.91} \times (6360/2000)^{1.02}] \times (1-5/4(31))$$

$$EF_N = 0.000150407 \text{ lb/mile}$$

**Table 4.1.7.5-b 2014 Annual Rural Traffic VMT (millions of miles)**

<b>FUNCTIONAL CLASS</b>	<b>Inter-State</b>	<b>Other Principal Arterial</b>	<b>Minor Arterial</b>	<b>Major Collector</b>	<b>Minor Collector</b>	<b>Local</b>	<b>TOTAL RURAL</b>
<b>ALLEGANY</b>	167	18	25	17	15	49	<b>291</b>
<b>ANNE ARUNDEL</b>	104	27	145	36	26	67	<b>405</b>
<b>BALTIMORE</b>	288	29	76	178	35	123	<b>729</b>
<b>CALVERT</b>	0	23	0	24	26	10	<b>83</b>
<b>CAROLINE</b>	0	117	110	72	38	64	<b>401</b>
<b>CARROLL</b>	0	41	188	91	58	69	<b>447</b>
<b>CECIL</b>	218	34	109	38	40	86	<b>525</b>
<b>CHARLES</b>	0	114	70	72	55	55	<b>366</b>
<b>DORCHESTER</b>	0	92	77	31	29	43	<b>272</b>
<b>FREDERICK</b>	248	206	90	162	84	152	<b>942</b>
<b>GARRETT</b>	175	68	65	71	45	81	<b>505</b>
<b>HARFORD</b>	67	71	133	89	54	77	<b>491</b>
<b>HOWARD</b>	275	67	74	69	31	104	<b>620</b>
<b>KENT</b>	0	32	45	51	26	28	<b>182</b>
<b>MONTGOMERY</b>	74	0	72	80	30	48	<b>304</b>
<b>PRINCE GEORGE'S</b>	0	32	27	63	35	26	<b>183</b>
<b>QUEEN ANNE'S</b>	0	309	75	76	46	99	<b>605</b>
<b>ST. MARY'S</b>	0	174	167	86	68	92	<b>587</b>
<b>SOMERSET</b>	0	88	35	25	23	32	<b>203</b>
<b>TALBOT</b>	0	206	95	33	26	72	<b>432</b>
<b>WASHINGTON</b>	505	23	91	82	51	151	<b>903</b>
<b>WICOMICO</b>	0	146	11	47	39	44	<b>287</b>
<b>WORCESTER</b>	0	220	31	59	26	67	<b>403</b>
<b>BALTIMORE CITY</b>	0	0	0	0	0	0	<b>0</b>
<b>GRAND TOTALS</b>	<b>2121</b>	<b>2137</b>	<b>1811</b>	<b>1552</b>	<b>906</b>	<b>1639</b>	<b>10166</b>



**Table 4.1.7.5-c 2014 Annual Urban Traffic VMT (millions of miles)**

FUNCTIONAL CLASS	Inter-state	Freeways & Express-ways	Other Principal Arterial	Minor Arterial	Collector	Local	TOTAL URBAN
ALLEGANY	158	0	176	92	37	33	496
ANNE ARUNDEL	1186	1618	969	792	483	358	5406
BALTIMORE	3612	465	1148	1260	582	502	7569
CALVERT	0	32	440	52	94	44	662
CAROLINE	0	0	0	0	0	0	0
CARROLL	37	0	467	136	126	54	820
CECIL	329	13	184	143	62	52	783
CHARLES	0	0	534	176	118	59	887
DORCHESTER	0	0	62	11	12	6	91
FREDERICK	802	319	301	211	288	136	2057
GARRETT	0	0	1	0	0	0	1
HARFORD	704	136	441	310	222	129	1942
HOWARD	1074	1065	247	448	316	224	3374
KENT	0	0	12	10	5	2	29
MONTGOMERY	2475	434	2085	1057	561	469	7081
PRINCE GEORGE'S	2994	1534	1826	996	713	572	8635
QUEEN ANNE'S	0	47	240	3	22	22	334
ST. MARY'S	0	9	180	52	45	20	306
SOMERSET	0	45	10	7	5	5	72
TALBOT	0	0	150	11	15	12	188
WASHINGTON	504	0	200	204	109	72	1089
WICOMICO	0	188	215	127	106	45	681
WORCESTER	0	26	209	42	38	22	337
BALTIMORE CITY	1061	136	1128	629	215	225	3394
<b>GRAND TOTALS</b>	<b>14936</b>	<b>6067</b>	<b>11225</b>	<b>6769</b>	<b>4174</b>	<b>3063</b>	<b>46234</b>

VMT should be converted into monthly totals by county by road type using seasonal fraction factors.

$$E_{rt} = EF_N \times VMT \times TF$$

Where:

$E_{rt}$  = is the emissions for a particular road type

$VMT$  = the vehicle miles traveled in millions of miles on a particular road type

$$TF=1$$

$$E_{PM10Allegany} = EF_N \times (VMT \times VMTFRAC_{winter}) \times TF$$

$$E_{PM10Allegany} = 0.000150407 \times (167 \times 0.2199) \times 1$$

$$E_{PM10Allegany} = 0.9408 \text{ tons per winter of PM}_{10} \text{ Inter-State Rural traffic emissions}$$

The previous calculations must now be repeated for each of 12 months using seasonal  $VMTFRAC$  for 13 different road types in Allegany and then summed to obtain the total emission for the county. The same process must be repeated for all counties to get a state total.

Daily Emissions Calculation

Paved Road for each Maryland County was found to have a

SAF = seasonal adjustment factor of 0.28

POS = peak ozone period of 0.25  
Days of the Period 365

Daily adjusted  $E_{PM10-PRIannual\ ad} = (E_{PM10-PRIannual} / 365) * (SAF / POS)$

You can total emissions for a given county and apply the daily parameters in the adjusted emissions equation above to obtain its daily emissions. The same method is used to calculate PM<sub>2.5</sub>.

#### 4.1.7.6 Unpaved Roads

SCC: 22 96 000 000

### Description

This source category covers fugitive dust emissions from activity on unpaved roads.

### Pollutants

PM<sub>10</sub>-PRI, PM<sub>10</sub>-FIL, PM<sub>25</sub>-PRI, PM<sub>25</sub>-FIL

### Method and Data Sources

#### *Activity*

Same method used in 2011 was used in 2014 to calculate unpaved road emissions. The following examples were used in 2011. The basis for the activity data for fugitive dust emissions from unpaved roads is the county-level miles of unpaved roads. The unpaved road mileage is converted to county-level vehicle miles traveled per unpaved road type by the following equation:

$$VMT_{UNPAVED(x, i)} = \frac{ADTV_{(i)} * MILES_{UNPAVED(x, i)} * DAYS_{YR}}{1,000,000}$$

Where:

$VMT_{UNPAVED(x, i)}$ :	Annual vehicle miles traveled for county x and road type i (in millions)
$ADTV_{(i)}$ :	Average Daily Traffic Volume for road type i
$MILES_{UNPAVED(x, i)}$ :	Miles of unpaved roads in county x and road type i
$DAYS_{YR}$ :	Days per year (365) conversion of daily traffic to annual traffic

Maryland received unpaved road mileage by county from the Maryland State Highway Administration. The unpaved road mileage data was divided into two functional classes, (Rural Local and Urban Local). The Rural Local and Urban Local roads were further divided into Rural Unpaved and Urban Unpaved roads. The VMT for Unpaved and Unimproved urban and local roads was calculated and then summed by county.

Mileage on urban and rural local roads was broken down into two groups of average daily travel volume (ADTV) in the 1996 Highway Statistics publication (the last year that data was published). These groups are shown in Table 4.1.7.6-a. Maryland used a reasonable assumption that no more than 50 vehicles travel its urban and rural local unpaved roads daily. The assumed ADTV is 5 for both urban and rural groups (<50 Rural Local volume group).

**Table 4.1.7.6-a Assumed Values for Average Daily Traffic Volume by Volume Group**

<b>Rural Roads</b>				
Volume Category (vehicles per day per mile)	< 50	50-199	200-499	> 500
Assumed ADTV	5*	125**	350**	550***
<b>Urban Roads</b>				
Volume Category (vehicles per day per mile)	< 200	200-499	500-1999	> 2000
Assumed ADTV	20*	350**	1250**	2200***

Notes: \*10% or volume group's maximum range endpoint, \*\* Average of volume group's range endpoints,  
 \*\*\* 110% or volume group's minimum

**Table 4.1.7.6-b Daily VMT by County and Road Class**

<b>County Name</b>	<b>2011 Daily VMT Rural rt210</b>	<b>2011 Daily VMT Urban rt330</b>
ALLEGANY	0.2076	0.5947
ANNE ARUNDEL	0.0032	0.0529
BALTIMORE	0.0024	0.0368
CALVERT	0.1063	0.1260
CAROLINE	0.4473	0.0000
CARROLL	0.1949	0.2587
CECIL	0.0467	0.0424
CHARLES	0.0215	0.0422
DORCHESTER	0.1420	0.0983
FREDERICK	0.1695	0.4235
GARRETT	0.1852	0.0000
HARFORD	0.0896	0.3122
HOWARD	0.0023	0.0162
KENT	0.0031	0.0011
MONTGOMERY	0.0076	0.2619
PRINCE GEORGE'S	0.0041	0.1557
QUEEN ANNE'S	0.0553	0.0365
ST. MARY'S	0.0246	0.0150
SOMERSET	0.0456	0.0427
TALBOT	0.0086	0.0051
WASHINGTON	0.0544	0.1170
WICOMICO	0.0762	0.1659
WORCESTER	0.0437	0.0759
BALTIMORE CITY	0.0000	0.0542

Unpaved road VMT was calculated first by State and roadway class using temporally allocated NAPAP Inventory factors (seasonal temporal allocations factors or VMT fractions – VMTFRAC values). These factors are provided in the EPA publication, “Paved and Unpaved Road VMT temp factors.xls”. The seasonal VMT fractions were then multiplied by the ratio of the number of days in a month to the number of days in a season to adjust to monthly VMTFRAC. The emission factors were then applied to estimate emissions by month.

Below is Table 4.1.7.6-c and d

**Seasonal VMT Fractional Values by Road Class**

Rural rt210 EPA		Urban rt330 EPA	
SEASON	VMTFRAC	SEASON	VMTFRAC
WINTER	0.2199	WINTER	0.2360
SPRING	0.2403	SPRING	0.2547
SUMMER	0.2845	SUMMER	0.2640
FALL	0.2553	FALL	0.2453

**Emission Factors:**

Re-entrained road dust emissions for unpaved roads were estimated using unpaved road VMT and the emission factor equation from AP-42<sup>1</sup>:

$$EF = \frac{\left[ k * \left( \frac{s}{12} \right)^a * \left( \frac{SPD}{30} \right)^b \right]}{\left( \frac{M}{0.5} \right)^c} - C$$

where k, a, b, and c are empirical constants given in Table 1 and

EF = size specific emission factor (lb/VMT)

s = surface material silt content (%)

SPD = mean vehicle speed (mph)

M = surface material moisture content (%)

C = emission factor for 1980's vehicle fleet exhaust, brake wear, and tire wear (lb/VMT)

**Table 4.1.7.6-e Constants for Unpaved Roads Re-entrained Dust Emission Factor Equation**

Constant	PM <sub>25</sub>	PM <sub>10</sub>
K (lb/VMT)	0.18	1.8
a	1	1
b	0.5	0.5
c	0.2	0.2
C	0.00036	0.00047

Source: AP-42

Average State-level unpaved silt content values, developed as part of the 1985 National Acid Precipitation Assessment Program (NAPAP) Inventory, were obtained from the Illinois State Water Survey<sup>2</sup>. Silt contents of over 200 unpaved roads from over 30 States were obtained. Average silt contents of unpaved roads were calculated for each State that had three or more samples for that State. For States that did not have three or more samples, the average for all samples from all States was used. Samples and default values

<sup>1</sup> United States Environmental Protection Agency, Office of Air Quality Planning and Standards. "Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources, Section 13.2.2 Unpaved Roads." Research Triangle Park, NC. 2003.

<sup>2</sup> G. Stensland, Illinois State Water Survey, personal communication with W. Barnard of E.H. PECHAN & Associates, Inc., Durham, NC. 1989.

were provided by state. Silt content (%) from (AP-42 Table 13.2.2-1) of **3.9** was used for the Unpaved/Unimproved roads.

**Table 4.1.7.6-f** State-Level Unpaved Road Surface Material Silt Content Values used in MANE-VU Fugitive Dust Calculations

State	Unpaved Road Surface Material Silt Content (%)	Data Source
Connecticut	3.9	DEFAULT
Delaware	0	No Unpaved Roads
DC	0	No Unpaved Roads
Maine	3.9	DEFAULT
Maryland	3.9	DEFAULT
Massachusetts	3.9	DEFAULT
New Hampshire	3.9	DEFAULT
New Jersey	3.9	DEFAULT
New York	4.7	SAMPLES
Pennsylvania	3.3	SAMPLES
Rhode Island	3.9	DEFAULT
Vermont	3.9	DEFAULT

Table 4.1.7.6-g lists the speeds modeled on the unpaved roads by roadway type. These speeds were determined based on national average speeds modeled for onroad emission calculations and weighted to determine a single average speed for each of the roadway types. The value of 0.5 percent for M was chosen as the national default as sufficient resources were not available to determine more locally-specific values for this variable.

**Table 4.1.7.6-g** Speeds Modeled by Roadway Type on Unpaved Roads

Unpaved Roadway Type	Speed (mph)
Rural Minor Arterial	39
Rural Major Collector	34
Rural Minor Collector	30
Rural Local	30
Urban Other Principal Arterial	20
Urban Minor Arterial	20
Urban Collector	20
Urban Local	20

The emission factor for paved roads is calculated from the empirical AP-42 formula and then is adjusted for precipitation. Correction factors were applied to the emission factors to account for the number of days with a sufficient amount of precipitation to prevent road dust resuspension. Monthly-corrected emission factors by State and roadway classification were calculated using the following equation:

$$EF_{CORR} = EF * \left[ \frac{(D - p)}{D} \right]$$

Where:

$EF_{CORR}$  = unpaved road dust emission factor corrected for precipitation effects

EF = uncorrected emission factor

D = number of days in the month

p = number of days in the month with at least 0.01 inches of precipitation

The number of days in each county with at least 0.01 inches of precipitation in each month was obtained from the National Climatic Data Center<sup>3</sup>. For counties with more than one precipitation collection station with valid data from the NCDC data set, an average number of precipitation days were calculated for each month from all valid stations in the county. Counties with no precipitation collection station or no valid data were assigned the data from an adjacent county. The 2011 monthly precipitation data for MANE-VU counties were updated and are shown in Table 4.1.7.6-h. This method of assigning monthly precipitation days by county improves on the NEI approach of assigning monthly precipitation data by State. These are the same precipitation data used to calculate paved road emissions for the MANE-VU States.

**Table 4.1.7.6-h** 2011 Number of Days with at Least 0.01 Inches of Precipitation

State	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MD	ALLEGANY	7	9	12	20	14	12	9	15	15	14	10	9
MD	ANNE ARUNDEL	9	9	12	14	12	10	8	16	16	11	9	7
MD	BALTIMORE	4	5	7	8	8	3	3	2	13	10	8	6
MD	CALVERT	9	4	14	12	11	12	9	10	12	9	11	9
MD	CAROLINE	11	10	11	12	11	11	8	14	12	15	11	6
MD	CARROLL	12	9	11	16	15	10	7	17	22	14	8	11
MD	CECIL	8	12	11	15	10	9	9	14	19	14	10	5
MD	CHARLES	9	4	14	12	11	12	9	10	12	9	11	9
MD	DORCHESTER	9	4	14	12	11	12	9	10	12	9	11	9
MD	FREDERICK	10	9	12	16	16	10	6	14	22	11	9	7
MD	GARRETT	20	16	18	20	17	12	11	13	14	18	11	15
MD	HARFORD	8	12	11	15	10	9	9	14	19	14	10	5
MD	HOWARD	7	6	14	14	10	2	7	8	10	11	8	8
MD	KENT	11	8	9	15	8	8	7	16	13	11	7	6
MD	MONTGOMERY	10	9	12	17	12	7	7	13	18	12	8	11
MD	PRINCE GEORGE'S	9	10	12	15	13	8	6	11	14	16	9	9
MD	QUEEN ANNE'S	11	10	11	12	11	11	8	14	12	15	11	6
MD	ST. MARY'S	8	6	12	10	11	7	9	11	13	10	9	6
MD	SOMERSET	10	7	12	10	7	8	9	12	12	9	12	9
MD	TALBOT	9	7	11	12	11	11	9	14	12	13	9	10

<sup>3</sup> U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Summary of the Day Element TD-3200, 2002 data provided on CD. National Climatic Data Center 2003

State	County	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MD	WASHINGTON	11	10	14	15	16	5	10	16	16	12	8	7
MD	WICOMICO	12	9	12	9	9	14	9	13	13	11	10	8
MD	WORCESTER	10	7	12	10	7	8	9	12	12	9	12	9
MD	BALTIMORE CITY	9	10	10	13	11	8	7	16	13	11	7	6

## Point Source Adjustments

No subtraction of emissions from point sources is necessary.

## Adjustment for Controls

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

BMC provided miles of unpaved roads at the county-level to spatially allocate emission estimates.

### *Temporal*

The unpaved road VMT data were temporally allocated by month using the NAPAP<sup>4</sup> temporal allocation factors. SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

### *AP-42 Unpaved Roads Emission Factor Formula*

$$EF = \frac{\left[ k * \left( \frac{s}{12} \right)^a * \left( \frac{SPD}{30} \right)^b \right]}{\left( \frac{M}{0.5} \right)^c} - C$$

Where k, a, b, and c are empirical constants given in Table 1 and

EF = size specific emission factor (lb/VMT)

s = surface material silt content (%)

SPD = mean vehicle speed (mph)

M = surface material moisture content (%)

C = emission factor for 1980's vehicle fleet exhaust, brake wear, and tire wear (lb/VMT)

<sup>4</sup> U.S. Environmental Protection Agency, "The 1985 NAPAP Emissions Inventory: Development of Temporal Allocation Factors," EPA-600/7-89-010d, Air & Energy Engineering Research Laboratory. Research Triangle Park, NC. April 1990.



### Calculate Local Unpaved Roads Emission Factors

Example: Anne Arundel County - Local Rural Unpaved Roads – PM<sub>25</sub>

$$EF_{PM25} = \frac{\left[ k * \left( \frac{s}{12} \right)^a * \left( \frac{SPD}{30} \right)^b \right]}{\left( \frac{M}{0.5} \right)^c} - C$$

$$EF_{PM25} = \frac{\left[ 0.27 * \left( \frac{3.9}{12} \right)^1 * \left( \frac{30}{30} \right)^{0.5} \right]}{\left( \frac{0.5}{0.5} \right)^{0.2}} - 0.00036$$

$$EF_{PM25} = 0.08739$$

### ***Adjust Emission Factor Formula for Precipitation***

$$EF_{CORR} = EF * \left[ \frac{(D - p)}{D} \right]$$

Where:

EF<sub>CORR</sub> = unpaved road dust emission factor corrected for precipitation effects

EF = uncorrected emission factor

D = number of days in the month

p = number of days in the month with at least 0.01 inches of precipitation

### **Calculate Unpaved Roads Emission Factors Adjusted for Precipitation**

(Example Calculation: Anne Arundel County – July – PM<sub>25</sub>)

$$EF_{PM25-CORR} = EF_{PM25} * \left[ \frac{(D - p)}{D} \right]$$

$$EF_{PM25-CORR} = 0.08739 * \left[ \frac{(31 - 8)}{31} \right]$$

$$EF_{PM25-CORR} = 0.064838$$

### Emission Equation:

$$EM_{PM25} = \frac{EF_{PM25-CORR} * VMT * VMTFRAC}{2000} * [1 - (CE * RE * RP)]$$

Where:

EM<sub>PM25</sub> = PM<sub>25</sub> emissions in tons per year for unpaved roads in county i

VMT<sub>i</sub> = Annual VMT (million miles of Vehicle Miles Traveled for county i)

VMTFRAC = Temporal Allocation Factor

EF<sub>PM25-CORR i</sub> = Unpaved road emission factor adjusted for precipitation in county i

CE = Control efficiency of 0% applied to Urban and Rural roads

RE = Rule effectiveness of 100% applied to Urban and Rural roads

RP = Rule penetration of 100% applied to Urban and Rural roads

Sample Calculation Unpaved Roads (Anne Arundel County - July)

$$EM_{PM25} = \frac{EF_{PM25-CORR} * VMT * VMTFRAC}{2000} * [1 - (CE * RE * RP)]$$

$$EM_{PM25} = \frac{0.0648377 * 0.0001533 * 0.09586}{2000} * [1 - (0 * 100 * 100)]$$

**$EM_{PM25} = 4.764E-10$  tons  $PM_{25}$  for July in Ann Arundel County Rural traffic emissions**

Daily Emissions Calculation

Paved Road for each Maryland County was found to have a

SAF = seasonal adjustment factor of 0.28

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted  $E_{PM25annual ad} = (E_{PM25annual} / 365) * (SAF / POS)$

You can total emissions for a given county and apply the daily parameters in the adjusted emissions equation above to obtain its daily emissions.

#### 4.1.8 FIRE SOURCES

Some fires are produced from sources such as forest fires, slash and prescribed burning, agricultural burning, structure fires, and vehicle fires.

EPA has developed new tools by which they use to estimate fire emissions for each state from a variety of sources. Using data collected from national fire database and activity on fire incidents and events around the country; with climate data and grid mapping EPA has estimated emissions for counties in each state. The emissions data are posted as csv files for every state on their FTP site. The methods used by EPA reflect use of the SMARTFIRE2 (SF2) framework. For the 2014 PEI MDE reviewed the data and estimations by EPA and decided to accept and use EPA's emissions:

Wild Fires / Forest Fires -- SCC: 2810001000

Prescribed Burns -- SCC: 2810015000

Slash Burns -- SCC: 2810005000

#### 4.1.8.1 Vehicle Fires

SCC: 28 10 050 000

##### **Description**

This emission guidance report covers air emissions from accidental vehicle fires. Vehicles included are any commercial or private mode of transportation that is authorized for use on public roads.

##### **Pollutants**

PM<sub>10</sub>, NO<sub>x</sub>, CO, VOC

##### **Method and Data Sources**

###### *Activity*

Local data was collected from state or local fire marshals and public safety departments. See the spatial apportioning section for available information sources.

###### *Emission Factors*

Emission factors are available for open burning of automobile components including upholstery, belts, hoses, and tires (AP-42, Section 2.5 Open Burning) (EPA, 1996)<sup>5</sup>. The amount of vehicle material burned (the fuel loading) in a vehicle fire must be estimated to use these factors. A conservative assumption is that an average vehicle has 500 pounds of components that can burn in a fire, based on a 3,700 pound average vehicle weight (CARB, 1995)<sup>6</sup>. Maryland used a more conservative assumption based on a 2,000 pound average vehicle weight. EPA and ERTAC committee through a joint study estimated PM<sub>2.5</sub>-PRI to be 100 lbs per ton of material burned in fire. Also, we used EIIP Vehicle Fires – January 1999 and 2000 guidance.

<b>Pollutant</b>	<b>Lbs/ton burned</b>
VOC	32
NO <sub>x</sub>	4
CO	125
PM <sub>10</sub> -PRI	100
PM <sub>2.5</sub> -PRI	100

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

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<sup>5</sup> EPA 1996 *Compilation of Air Pollutant Emission Factors--Volume I: Stationary Point and Area Sources. Fifth Edition AP-42*. U. S. Environmental Protection Agency, Office of Air Quality Planning and Standards. (GPO 055-000-00251-7) Research Triangle Park, North Carolina

<sup>6</sup> CARB 1995. *Emission Inventory Procedural Manual, Vol. III: Methods for Assessing Area Source Emissions*. California Environmental Protection Agency: Air Resources Board.

## Adjustment for Controls

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

The activity data for vehicle fires was collected at a county-level. No other method to spatially profile the vehicle fire source category was used.

### *Temporal*

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

$$E_{VF,i} = \frac{VB_j \times FLF_{VF} \times EF_{VF,i}}{2000}$$

where:

$E_{VF,i}$  = Emissions of pollutant i in tons per year from vehicle fires

$VB_j$  = Vehicles burned in county j in 2014

$FLF_{VF}$  = Fuel loading factor 0.25 tons/vehicle burned

$EF_{VF,i}$  = Emissions factor in pounds per ton burned for pollutant i

### 2014 Example Calculation Vehicle Fires (Anne Arundel County)

$$E_{VF,Ann} = \frac{VB_j \times FLF_{VF} \times EF_{VOC}}{2000}$$

$$E_{VF,Ann} = \frac{(227 \times (0.25) \times 32)}{2000}$$

**$E_{VF,Ann}$  0.91 tons VOC per year emitted from vehicle fires in Anne Arundel County in 2014**

### Daily Emissions Calculation

Vehicle Fires for Anne Arundel County was found to have a

SAF = seasonal adjustment factor of 0.25

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted  $E_{VF,AnnDA} = (E_{VF,Ann} / 365) \times (SAF / POS)$

**$E_{VF,AnnDA} = (0.91 / 365) \times (0.25 / 0.25) = 2.49E-03$  VOC tons/day**

#### 4.1.8.2 Agricultural Burning

SCC: 21 01 500 000

##### Description

This source category covers agricultural burning practices used to clear and/or prepare land for planting. Operations included under this category are stubble burning, burning of agricultural crop residues, and burning of standing field crops as part of harvesting (e.g., sugar cane).

##### Pollutants

PM<sub>10</sub> and PM<sub>2.5</sub>

##### Method and Data Sources

Emissions from this source were assigned to the open burning category because the county permits issued in 2014 did not require information distinguishing the amount of agricultural waste to be burned versus other materials.

#### 4.1.8.3 Structure Fires

SCC: 28 10 030 000

##### Description

Building fires produce short-term emissions of organic compounds.

##### Pollutants

PM<sub>10</sub> and PM<sub>2.5</sub>

##### Method and Data Sources

MDE staff used emission factors, fuel loading factors and methodology documented in EIIP<sup>7</sup>, Structure Fires, dated July 1999.

##### *Activity*

The Maryland State Fire Marshal's office provided the number of structure fires by county.

##### *4.1.8.3-a Emission Factors*

	VOC	NO <sub>x</sub>	CO	PM10-PRI
	(lbs./ton)	(lbs./ton)	(lbs./ton)	(lbs./ton)
Emissions	11.0	1.4	60.0	10.8
Fuel loading factor:	1.15	Tons/fire		

##### Point Source Adjustments

No subtraction of emissions from point sources is necessary.

---

<sup>7</sup> Emission Inventory Improvement Program

## Adjustments for Controls

No controls are available for this source category.

## Spatial and Temporal Allocations

### *Spatial*

The activity data for structure fires was collected at a county-level. No other method to spatially profile the prescribed burning source category was used.

### *Temporal*

Because structure fires occur at different times of the year, ARA used no seasonal adjustment factor. The activity level is seven days per week.

## Emissions Calculation

$$E_{SF,i} = \frac{SF_k \times EF_{SF,i} \times FLF_{SF}}{2000}$$

where:

$E_{SF,i}$  = Emissions of pollutant i in tons per year from structure fires

$FLF_{SF}$  = Fuel loading factor (tons/acre burned) for structure fires

$SF_k$  = Structure fires in county k in 2014

$EF_{SF,i}$  = Emission factor for pollutant i in pounds per ton

ARA used an activity level of 7 days a week with no seasonal variation as given in Table 5.8-1 in the EIIP document.

### 2014 Example Calculation Structure Fires (Baltimore County)

Equation:

$$E_{SF\ BC_o} = \frac{SF_k \times EF_{SF,i} \times FLF_{SF}}{2000}$$

$$E_{SF\ BC_o} = \frac{286 \times 11 \times 1.15}{2000}$$

$$E_{SF\ BC_o} = \mathbf{1.81\ tons\ voc / year}$$

### Daily Emissions Calculation

Structure Fires for Baltimore County was found to have a

SAF = seasonal adjustment factor of 0.2

POS = peak ozone period of 0.25

Days of the Period 365

Daily adjusted  $E_{SF\ BC_{oda}} = (E_{SF\ BC_o} / 365) \times (SAF / POS)$

$$E_{SF\ BC_{oda}} = (1.81 / 365) \times (0.2 / 0.25) = \mathbf{3.96E-03\ VOC\ tons/day}$$

#### 4.1.8.4 Orchard Heaters

SCC: 28 01 520 000

##### **Description**

In areas of the country where frost threatens orchards, heaters may be used in cold portions of the growing season.

##### **Pollutants**

PM<sub>10</sub> and PM<sub>2.5</sub>

##### **Method and Data Sources**

Calls to several orchards in Washington and Frederick Counties (where most of the orchards in Maryland are located), revealed that no heaters were used. One orchard used fans to move air on still nights when there would be danger of frost to fruit tree blossoms. Therefore, orchard heaters are not included in Maryland's baseline inventory.



#### 4.1.9 AMMONIA SOURCES

##### 4.1.9.1 INTRODUCTION

Currently, there is a significant amount of uncertainty concerning the contribution of soil to ammonia emission levels. High quality emission factors for this category do not exist, and even the physics of ammonia-surface exchange is not well understood. Soils emit and uptake ammonia so it is difficult to evaluate the net contribution, emissions may be potentially significant in some regions if the uptake is not substantial. Indeed, the literature shows that a soil-plant canopy system can be a source of ammonia emissions under certain conditions and a sink under other conditions. Because of this uncertainty, the State of Maryland has decided not to include emissions from soils. MDE inventoried the following sources for ammonia emissions.

- Agricultural Livestock Production Operations
- Agricultural Fertilizer Application
- Mobile Sources
- Publicly Owned Treatment Works (POTWs)
- Human activity

##### 4.1.9.2 Emission Calculations Methodology

Normally, the Department uses the Carnegie Mellon University Ammonia Model (CMU-Ammonia Model version 3.6) <sup>8</sup> computer program to develop an ammonia emissions inventory. However, for the 2014 NEI emissions inventory cycle, MDE has accepted EPA's 2014 emissions inventory data.

The CMU-Ammonia Model program is an approved methodology by EPA for developing ammonia source categories emissions inventory. Basically, the CMU-Ammonia Model program multiplies emission factors per source category by its particular activity data

##### 4.1.9.3 Ammonia SOURCE EMISSION CATEGORIES

###### 4.1.9.4 Agricultural Livestock Production Operations

Livestock waste is one of the most important sources of ammonia when considering the sheer magnitude of the emissions. Existing ammonia inventories indicate that livestock wastes are responsible for 50-70% of national ammonia emissions. The United States Department of Agriculture publishes the Census of Agriculture (USDA, 2012), conducted every five years, which includes accurate inventories for livestock; however, the categories of animals reported at the county level differ from the categories of animals for which current emission factors exist. 2014 activity data were used from the USDA Census of Agriculture data to develop the 2014 ammonia emission inventory.

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<sup>8</sup> Copyright 2004 CMU- NH3 Ammonia Model Inventory Version 3.6 computer program, Departments of Civil and Environmental Engineering and Engineering and Public Policy Porter Hall Room 119, Carnegie Mellon University, 5000 Forbes Ave, Pittsburgh, PA 15213

#### 4.1.9.5 Beef and Dairy cattle (cows)

SCC: 2805002000 (Beef Cattle)  
2805018000 (Dairy Cows)

##### **Description**

These animals and livestock are sources of ammonia emissions that are due to the biological decomposition of their waste products.

##### **Pollutants**

NH<sub>3</sub>

##### **Method and Data Sources**

Conceptually, the method for estimating emissions from cattle is to count the number of animals, then multiply this by the average emissions per animal, and the resulting value provides the emissions. The CMU Ammonia Model v.3.6 program utilizes this approach, a methodology approved by EPA for developing the emissions inventory for other categories.

##### *Activity*

The U.S. Census Bureau, 2014 was used to obtain activity level data for this category.

##### *Emission Factors*

Emission factors are the defaulted values in the CMU ammonia model (version 3.6).

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

##### **Adjustment for Controls**

The CMU ammonia model automatically applies controls, when applicable for a given year.

##### **Spatial and Temporal Allocations**

##### *Spatial*

The CMU ammonia model spatially allocates activity data emissions. Input files specify the state or county then set up county-level allocations factor files for the chosen state.

##### *Temporal*

The CMU-NH<sub>3</sub> ammonia model temporally allocates activity data to the different months of the year or annually (yearly). Emissions were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## **Emissions Calculation**

### Equation:

#### 2014 TPY ammonia emissions for cows in an individual county

$$EM_{\text{COWS-2014 Total}} = 2014EM_{\text{BC}} + 2014 EM_{\text{MC}} + 2014 EM_{\text{HF}} + 2014 EM_{\text{ST}}$$

Where:

$EM_{\text{COWS-2014 Total}}$  = Total NH<sub>3</sub> emissions from cows, all categories

$EM_{\text{BC}}$  = 2014 Uncontrolled emissions from beef cows

$EM_{\text{DC}}$  = 2014 Uncontrolled emissions from dairy cows

Where:

$$EM_{\text{BC}} = AC_{\text{BC}} * EF_{\text{BC}}$$

$$EM_{\text{DC}} = AC_{\text{DC}} * EF_{\text{DC}}$$

Where:

$AC_{\text{BC}}$  = Activity level (number) of beef cows

$AC_{\text{DC}}$  = Activity level (number) of dairy cows

$EF_{\text{BC}}$  = Emission factor for beef cows

$EF_{\text{DC}}$  = Emission factor for dairy cows

#### 4.1.9.6 Hogs and Pigs

SCC: 28 05 025 000 (Swine Composite)

##### **Description**

These animals and livestock are sources of ammonia emissions that are due to the biological decomposition of their waste products.

##### **Pollutants**

NH<sub>3</sub>

##### **Method and Data Sources**

Conceptually, the method for estimating emissions from hogs and pigs are to count the number of animals, then multiply this by the average emissions per animal, and the resulting value provides the emissions. The CMU Ammonia Model v.3.6 program utilizes this approach, a methodology approved by EPA for developing the emissions inventory for other categories.

##### *Activity*

The U.S. Census Bureau, 2014 was used to obtain activity level data for this category.

##### *Emission Factors*

Emission factors are the defaulted values in the CMU ammonia model (version 3.6).

##### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

##### **Adjustment for Controls**

The CMU ammonia model automatically applies controls, when applicable for a given year.

##### **Spatial and Temporal Allocations**

##### *Spatial*

The CMU ammonia model spatially allocates activity data emissions. Input files specify the state or county then set up county-level allocations factor files for the chosen state.

##### *Temporal*

The CMU-NH<sub>3</sub> ammonia model temporally allocates activity data to the different months of the year or annually (yearly). Emissions were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## **Emissions Calculation**

Equation:

2014 TPY ammonia emissions for swine in an individual county

$$EM_{\text{SWINE-2014 Total}} = 2014 EM_{\text{HOGS}} + 2014 EM_{\text{PIGS}}$$

Where:

$EM_{\text{SWINE-2014 Total}}$  = Total NH<sub>3</sub> emissions from swine, all categories

$EM_{\text{HOGS}}$  = 2014 Uncontrolled emissions from hogs

$EM_{\text{PIGS}}$  = 2014 Uncontrolled emissions from pigs

Where:

$$EM_{\text{HOGS}} = (AC_{\text{HOGS}} * EF_{\text{HOGS}})$$

$$EM_{\text{PIGS}} = (AC_{\text{PIGS}} * EF_{\text{PIGS}})$$

Where:

$AC_{\text{HOGS}}$  = Activity level (number) of hogs

$AC_{\text{PIGS}}$  = Activity level (number) of pigs

$EF_{\text{HOGS}}$  = Emission factor for hogs

$EF_{\text{PIGS}}$  = Emission factor for pigs

#### 4.1.9.7 Chickens (Layers and Broilers)

SCC: 28 05 007 100 (Chickens Layers)  
28 05 030 004 (Broilers, Poultry)

#### **Description**

These animals and livestock are sources of ammonia emissions that are due to the biological decomposition of their waste products.

#### **Pollutants**

NH<sub>3</sub>

#### **Method and Data Sources**

Conceptually, the method for estimating emissions from chickens composite is to count the number of animals, then multiply this by the average emissions per animal, and the resulting value provides the emissions. The CMU Ammonia Model v.3.6 program utilizes this approach, a methodology approved by EPA for developing the emissions inventory for other categories.

#### *Activity*

The U.S. Census Bureau, 2014 was used to obtain activity level data for this category.

#### *Emission Factors*

Emission factors are the defaulted values in the CMU ammonia model (version 3.6).

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustment for Controls**

The CMU ammonia model automatically applies controls, when applicable for a given year.

#### **Spatial and Temporal Allocations**

#### *Spatial*

The CMU ammonia model spatially allocates activity data emissions. Input files specify the state or county then set up county-level allocations factor files for the chosen state.

### *Temporal*

The CMU-NH3 ammonia model temporally allocates activity data to the different months of the year or annually (yearly). Emissions were averaged according to period of operation to a daily estimate. See section 2.2.1.1

### **Emissions Calculation**

Equation:

#### 2014 TPY ammonia emissions for chickens in an individual county

$$EM_{\text{CHICKENS-2014 Total}} = 2014 EM_{\text{LAYER}} + 2014 EM_{\text{BROILER}}$$

Where:

$$EM_{\text{CHICKENS-2014 Total}} = \text{Total NH}_3 \text{ emissions from chickens, all categories}$$

$$EM_{\text{LAYER}} = 2014 \text{ Uncontrolled emissions from layers}$$

$$EM_{\text{BROILER}} = 2014 \text{ Uncontrolled emissions from broilers}$$

Where:

$$EM_{\text{LAYER}} = AC_{\text{LAYER}} * EF_{\text{LAYER}}$$

$$EM_{\text{BROILER}} = AC_{\text{BROILER}} * EF_{\text{BROILER}}$$

Where:

$AC_{\text{LAYER}}$  = Activity level (number) of layer chickens

$AC_{\text{BROILER}}$  = Activity level (number) of broiler chickens

$EF_{\text{LAYER}}$  = Emission factor for layer chickens

$EF_{\text{BROILER}}$  = Emission factor for broiler chickens

#### 4.1.9.8 Agricultural Fertilizer Application

SCC: 28 01 700 099 (Miscellaneous Fertilizers)

##### **Description:**

The following description comes directly from the EPA's agricultural fertilizer application documentation.

"Fertilizer in this category refers to any nitrogen-based compound, or mixture containing such a compound, that is applied to land to improve plant fitness.

The approach to estimate 2014 fertilizer emissions consists of these general steps:

- Run the Fertilizer Emissions Scenario Tool for CMAQ (FEST-C<sup>1</sup>) and CMAQ<sup>2</sup> model with bidirectional ("bidi") NH<sub>3</sub> exchange to produce year 2011 nitrate (NO<sub>3</sub>) Ammonium (NH<sub>4</sub>, including Urea), and organic (manure) nitrogen fertilizer estimates and gaseous ammonia NH<sub>3</sub> emission estimates respectively.
- Run the Environmental Policy Integrated Climate (EPIC<sup>3</sup>) modeling system to produce year 2014 NO<sub>3</sub>, Ammonium (including Urea), and organic (manure) nitrogen fertilizer estimates.
- Compute year 2011 emission factors from the FEST-C outputs to use in estimating year 2014 NH<sub>3</sub> emissions.
- All emissions are assigned to one SCC: "...Miscellaneous Fertilizers" (2801700099).

FEST-C reads land use data from the Biogenic Emissions Landuse Dataset (BELD) version 4, meteorological variables from the Weather Research and Forecasting (WRF<sup>4</sup>) model, and nitrogen deposition data from a previous or historical average CMAQ simulation. FEST-C model outputs are discussed in greater detail in the "NH<sub>3</sub>\_Fert\_Fact\_Sheet\_v2.docx" included in the zip file "2014\_Fertilizer\_Application\_v1.0\_22apr2016.zip" available at:

<ftp://ftp.epa.gov/EmisInventory/2014/doc/nonpoint/> <sup>9</sup>

##### **Pollutants**

NH<sub>3</sub>

##### **Emission Factors**

The emission factors were derived from the 2011 FEST-C outputs. Total fertilizer emission factors for each month and county were computed by taking the ratio of total fertilizer NH<sub>3</sub> emissions (short tons) to total nitrogen fertilizer application (short tons).

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<sup>9</sup>EPA's Agricultural Fertilizer Application Documentation located at <ftp://ftp.epa.gov/EmisInventory/2014/doc/nonpoint/>



### ***Sample Calculations***

EPA's modeling system is too large and many spreadsheets would be needed to show chemical make and transport modeling, making it very difficult to show a sample calculation.

## 5.0 NONROAD SOURCES

### 5.1 INTRODUCTION NONROAD VEHICLES/ENGINES

This section contains the nonroad source emission inventory for volatile organic compounds (VOCs), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), sulfur oxides (SO<sub>x</sub>), particulate matter (PM<sub>2.5</sub> and PM<sub>10</sub>), ammonia (NH<sub>3</sub>), and toxic air pollutants. Nonroad mobile sources include motorized vehicles and equipment that are normally not operated on public roadways to provide transportation. Nonroad mobile sources are broken up into the following categories:

- Lawn and garden equipment
- Airport service equipment
- Logging equipment
- Recreational marine equipment
- Light commercial equipment
- Industrial equipment
- Construction and Mining equipment
- Agricultural or farm equipment
- Recreational land vehicles or equipment
- Railroads
- Commercial aviation
- Air taxis
- General aviation
- Military aviation
- Commercial marine vessels

The Department used the most current version of EPA's NONROAD2008a model, which is incorporated into MOVES2014a Model to develop the inventory for nonroad mobile sources. The NONROAD2008a model includes more than 80 basic and 260 specific types of nonroad equipment and further stratifies equipment types by horsepower rating. Fuel types include gasoline, diesel, compressed natural gas (CNG), and liquefied petroleum gas (LPG).

EPA allowed the use of the NONROAD Model and associated default inputs in the development of inventories supporting State Implementation Plans (SIPs).

## 5.2 NONROAD MODEL

NONROAD2008a supersedes all previous versions of NONROAD models. It calculates past, present, and future emission inventories in tons of pollutant for all nonroad equipment categories. It does not calculate commercial marine, aircraft, or rail locomotive emissions. The model estimates exhaust and evaporative hydrocarbons (HC), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), particulate matter (PM), sulfur dioxide (SO<sub>2</sub>), and carbon dioxide (CO<sub>2</sub>). The user may select a specific geographic area like the nation, a state, or county and time period like annual, monthly, seasonal, or daily for which to generate emissions.

The model estimates emissions for each specific type of nonroad equipment by multiplying the following input data estimates:

- Equipment population for base year (or base year population grown to a future year), distributed by age, power, fuel type, and application;
- Average load factor expressed as average fraction of available power;
- Available power in horsepower;
- Activity in hours of use per year; and
- Emission factor with deterioration and/or new standards.

The emissions are then temporally and geographically allocated using appropriate allocation factors. There are several input files that provide necessary information to calculate and allocate emissions estimates. These input files correspond to the basic data needed to provide the calculations: emission factors, base year equipment population, activity, load factor, average lifetime growth estimates, and geographic and temporal allocation. Default values are provided for all input files. The user can replace the default data files when better information becomes available, either from EPA for national defaults or from local sources for locality-specific data. The input files are also modifiable to test control strategies.

The NONROAD model consists of three separate components: a graphical user interface written in Visual Basic, the core model written in FORTRAN, and a reporting utility written in Microsoft ACCESS. The install utility supplied with the model easily installs all three components of the model onto a personal computer.

The primary purpose of the user interface is to provide the user with an easy method to specify the options for a model run. With simple Windows-type screens and pull-down menus, the user can quickly set up, execute, and view a modeling scenario. Once the model options are specified, the user can then run the FORTRAN core model from within the interface, and then can move directly to the reporting utility to view and summarize the modeling results.

The core model of NONROAD, written in FORTRAN, contains all of the algorithms used by the model for calculating emissions estimates. The core model can be operated as a stand-alone application; however, as a stand-alone application it requires some basic knowledge of the DOS operating system. Also, note that while the user interface runs the core model for one specified set of conditions, it cannot run multiple runs in batch mode. Multiple runs can be performed by creating and running a batch file in DOS or in a DOS window environment.

The reporting utility, written using Microsoft's ACCESS database software, is used to create standardized reports using output data generated in the core model. Like the graphical user interface, the reporting utility is a fully operational Windows program, with pull-down menus, designed as a separate module in order to take advantage of the many reporting and formatting options available when using a database application. Although the reporting utility is written in ACCESS, it is a stand-alone application, and you do not need to know how to use ACCESS to generate reports.

The NONROAD model estimates emissions for six exhaust pollutants: hydrocarbons (HC), NO<sub>x</sub>, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), sulfur oxides (SO<sub>x</sub>), and PM. The user selects among five different types for reporting HC — as total hydrocarbons (THC), total organic gases (TOG), non-methane organic gases (NMOG), non-methane hydrocarbons (NMHC), or volatile organic compounds (VOC). Particulate matter can be reported as PM of 10 microns or less (PM<sub>10</sub>) or PM of 2.5 microns or less (PM<sub>2.5</sub>). The model also estimates emissions of non-exhaust HC for four modes — diurnal, refueling spillage, vapor displacement, and crankcase emissions. All emissions are reported as short tons (i.e., 2000 lbs).

#### 5.2.1 Emission Calculation Methodologies

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Emission factors activity data are stored in the model defaulted National County Data (NCD) county database input files. Adjustments are defaulted automatically made within the model based on the age of equipment and controls applied for given time frames and inventory year. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

NONROAD2008a model estimates the 2014 annual and average ozone season day emissions for VOC, NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>2.5</sub>-PRI, and NH<sub>3</sub> for the purposes of creating the base year 2014 emissions inventory. The NONROAD2008a model estimates emissions for each specific type of nonroad equipment by multiplying the following input data estimates:

- Equipment population for the base year, distributed by age, power, fuel type, and application;
- Average load factor expressed as average fraction of available power;
- Available power in horsepower;
- Activity in hours of use per year; and
- Emission factors reflecting deterioration and/or new standards.

The emissions are then temporally and geographically allocated using appropriate allocation factors.

The MOVES2014a Model incorporates the latest version of the NONROAD2008 model to calculate nonroad emissions. The model produces county-level mobile source emissions inventories from a National County Database (NCD), which includes onroad and nonroad data for each state. The NCD uses these nonroad inputs in the model to estimate and process county-level outputs on an annual,

monthly, or daily basis in a single model run. The MOVES2014a model automatically applies controls, when applicable, for a given year.

Several input files provide necessary information to the model. These input files include information such as: emission factors, base year equipment population, activity, load factors, average lifetime, scrappage function, growth estimates, and geographic and temporal allocations. Default values are provided for all input files. The user may replace the default data files when better information becomes available, either from EPA for national defaults or from local sources for locality-specific data.

The NONROAD2008 model software was ran for all twelve months in 2014 to develop average ozone season day and annual emissions for the Cecil County MD area. All emissions sources in the software were included in the run. Average ozone season day emissions were estimated by dividing total emissions in July by the total number of days (31) in July. Emissions for all twelve months in 2014 were added together to develop annual emissions. Model inputs (temperature, fuel, and other parameters) used in this analysis were included in the NCD county database. The NONROAD2008 model is intended for Windows 98 and later. Its primary use is for estimation of air pollution inventories by professional mobile source modelers, such as state air quality officials and consultants. NONROAD2008 updates NONROAD2005 to include new nonroad emission standards promulgated in 2008 related to small gasoline engines and pleasure craft.

### 5.3 NONROAD CATEGORIES

The following is a list of each nonroad category with its description, data sources, methods used, a sample calculation, and a table with results for each county.

#### 5.3.1 Lawn and Garden Equipment

SCC:

<b>(2-Stroke) 2260004***</b>	<b>(4-Stroke) 2265004***</b>		<b>(LPG) 2267004***</b>	<b>(Diesel) 2270004***</b>
2260004015	2265004010	2265004041	2267004066	2270 004000
2260004016	2265004011	2265004046		
2260004020	2265004015	2265004051		
2260004021	2265004016	2265004055		
2260004025	2265004025	2265004056		
2260004026	2265004026	2265004066		
2260004030	2265004030	2265004071		
2260004031	2265004031	2265004075		
2260004035	2265004035	2265004076		
2260004036	2265004036			
2260004071	2265004040			

## **Description**

Lawn and garden equipment includes a variety of types of machinery used in the maintenance of lawns and gardens. Examples of the types of equipment included in this category are trimmers/edgers/brush cutters, lawn mowers, leaf blowers, rear engine riding mowers, front mowers, chainsaws (<4HP), shredders (<5HP), tillers (<5HP), lawn and garden tractors, wood splitters, snow blowers, chippers/stump grinders, commercial turf equipment, and other lawn and garden equipment. Emissions result from operation of the internal combustion engines that power the equipment.

## **Pollutants**

PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

## **Method and**

### **Data Sources**

#### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

#### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran the NONROAD2008a model to determine the emission estimate for 2014. MDE-ARA opted to choose monthly seasonal (Annual and Summer) period totals as the output files from the model.

## **Point Source**

### **Adjustments**

No subtraction of emissions from point sources is necessary.

## **Adjustments**

### **for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

### **Spatial and Temporal Allocations**

#### *Spatial*

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

#### *Temporal*

The NONROAD2008a model allocates activity and emissions monthly. The month of July was chosen and emissions were divided by 31 to give average daily emissions.

### **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

### 5.3.2 Airport Service Equipment

SCC: 22 60 008 000 (2-Stroke)  
22 65 008 000 (4-Stroke)  
22 65 008 005 (4-Stroke)  
22 67 008 005 (LPG)  
22 70 008 000 (Diesel)  
22 70 008 005 (Diesel)

#### Description

Airport service equipment includes a variety of types and sizes of machinery used to tow airplanes or for transferring luggage between a terminal and an airplane. Examples of the types of equipment included in this category are aircraft support equipment and terminal tractors. Emissions result from operation of the internal combustion engines that power the equipment.

#### Pollutants

PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC

#### Method and

#### Data Sources

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

##### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

Ground Support Equipment (GSE) emissions were estimated using NONROAD2008a nonroad modeling for all airports except for very large and military airports that were calculated using the EPA EDMS.<sup>1</sup>

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<sup>1</sup> Emissions & Dispersion Modeling System (EDMS) Version 4.12 for Windows from CSSI, Inc



## **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

## **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year. The latest version of the EDMS model was used.

## **Spatial and Temporal Allocations**

### *Spatial*

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

### *Temporal*

The NONROAD2008a model allocates activity and emissions monthly. The month of July was chosen and emissions were divided by 31 to give average daily emissions.

## **Emissions Calculation**

The MOVES2014a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Emission factors activity data are stored in MOVES2014a's data input files. Adjustments are made within the model based on the age of equipment and controls applied for given time frames. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

<sup>86</sup> Emissions & Dispersion Modeling System (EDMS) Version 5.1 for Windows from CSSI, Inc

### 5.3.3 Recreational Land Vehicles

SCC:

2260001010	2-Stroke	motorcycles
2260001020	2-Stroke	snowblowers
2260001030	2-Stroke	ATVs
2260001060	2-Stroke	Specialty vehicles - carts
2265001010	4-Stroke	motorcycles
2265001030	4-Stroke	ATVs
2265001050	4-Stroke	golf carts
2265001060	4-Stroke	Specialty vehicles - carts
2267001060	LPG	Specialty vehicles - carts

#### Description

Recreational vehicles include a variety of types of vehicles used off normal roads for pleasure use. Examples of the types of vehicles included in this category are motorcycles, minibikes, and golf carts. Emissions result from operation of the internal combustion engines that power these vehicles.

#### Pollutants

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

#### Method and

#### Data Sources

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

##### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

#### Point Source

#### Adjustments

No subtraction of emissions from point sources is necessary.

## **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

## **Spatial and Temporal Allocations**

### *Spatial*

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

### *Temporal*

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

## **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

#### 5.3.4 Recreational Marine Equipment

##### SCC:

2282005010	2-Stroke	Outboard
2282005015	2-Stroke	Personal Water Craft
2282010005	4-Stroke	Inboard/Stern drive

##### Description

Recreational marine equipment includes engines used to power recreational motor boats and sailboat auxiliary engines. Emissions result from operation of these engines.

##### Pollutants

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

##### Method and

##### Data Sources

###### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

###### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

##### Point Source

##### Adjustments

No subtraction of emissions from point sources is necessary.

##### Adjustments

##### for Controls

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

## **Spatial and Temporal Allocations**

### ***Spatial***

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

### ***Temporal***

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

## **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

### 5.3.5 Light Commercial Equipment

SCC:

2260006005	2-Stroke	generator set
2260006010	2-Stroke	pump
2260006015	2-Stroke	air compressors
2260006035	2-Stroke	hydro-power units
2265006005	4-Stroke	generator set
2265006010	4-Stroke	pump
2265006015	4-Stroke	air compressors
2265006025	4-Stroke	welders
2265006030	4-Stroke	pressure washers
2265006035	4-Stroke	hydro-power units
2267006005	LPG	generator set
2267006010	LPG	pump
2267006015	LPG	air compressors
2267006025	LPG	welders
2267006030	LPG	pressure washers
2267006035	LPG	hydro-power units
2268006005	CNG	generator set
2268006010	CNG	pump
2268006015	CNG	air compressors
2268006020	CNG	gas compressors

#### Description

Light commercial equipment includes a variety of types and sizes of machinery used in small commercial applications. Examples of the types of equipment included in this category are pumps, generators, compressors, and welders. Emissions result from operation of the internal combustion engines that power the equipment.

#### Pollutants

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

#### Method and Data Sources

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-

R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.

- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

### ***Methods sources***

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

### **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

### **Spatial and Temporal Allocations**

#### ***Spatial***

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

#### ***Temporal***

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

### **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

### 5.3.6 Industrial Equipment

SCC:

2260003030	2-Stroke	sweepers/scrubbers
2260003040	2-Stroke	other general industrial equipment
2265003010	4-Stroke	aerial Lifts
2265003020	4-Stroke	forklifts
2265003030	4-Stroke	sweepers/scrubbers
2265003040	4-Stroke	other general industrial equipment
2265003050	4-Stroke	other material handling equipment
2265003060	4-Stroke	ac\refrigeration
2265003070	4-Stroke	terminal tractors
2265010010	4-Stroke	other oil field equipment
2267003010	LPG	aerial Lifts
2267003020	LPG	forklifts
2267003030	LPG	sweepers/scrubbers
2267003040	LPG	other general industrial equipment
2267003050	LPG	other material handling equipment
2267003070	LPG	terminal tractors

#### Description

Industrial equipment includes a variety of types and sizes of machinery. Examples of the types of equipment included in this category are forklifts, mobile refrigeration units, auxiliary engines for hydraulic pump service on garbage trucks and other large vehicles, generator and pump service for utilities, airports, and state maintenance organizations, logging, mining, quarrying, oil field operations, and portable well drilling equipment. Emissions result from the operation of the internal combustion engines that power the machines.

#### Pollutants

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

#### Method and

#### Data Sources

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB,



EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.

- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

#### ***Methods sources***

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

#### **Spatial and Temporal Allocations**

##### ***Spatial***

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

##### ***Temporal***

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

#### **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

### 5.3.7 Construction and mining Equipment

SCC:

2260002006	2265002021	2265002060	2267002033
2260002009	2265002024	2265002066	2267002039
2260002021	2265002027	2265002072	2267002045
2260002027	2265002030	2265002078	2267002054
2260002039	2265002033	2265002081	2267002057
2260002054	2265002039	2267002003	2267002060
2265002003	2265002042	2267002015	2267002066
2265002006	2265002045	2267002021	2267002072
2265002009	2265002054	2267002024	2267002081
2265002015	2265002057	2267002030	2268002081

2-Stroke, 4-Stroke, CNG, and LPG equipment

#### Description

Construction and mining equipment includes a variety of types and sizes of machinery used in the construction of roadways, buildings, digging, and tunneling. Examples of the types of equipment included in this category are bulldozers, power shovels, scrapers, haulers, and motor graders. Emissions result from the internal combustion engines used to power this equipment.

#### Pollutants

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

#### Method and

#### Data Sources

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

##### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

## **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

## **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

### **Spatial and Temporal Allocations**

#### *Spatial*

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

#### *Temporal*

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

## **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

### 5.3.8 Agricultural Equipment

SCC: 22 60 005 000 (2-Stroke)  
22 65 005 000 (4-Stroke)  
22 67 005 000 (LPG)  
22 68 005 000 (CNG)  
22 70 005 000 (Diesel)

#### **Description**

The two types of sources within the agricultural equipment category are tractors and all other motorized equipment. Tractors account for most of the emissions produced from agricultural equipment. The primary types of equipment, other than tractors, are combines, balers, harvesters, and general-purpose machines. Emissions result from operation of the internal combustion engines that power the equipment.

#### **Pollutants**

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

#### **Method and Data Sources**

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

##### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

## **Spatial and Temporal Allocations**

### ***Spatial***

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

### ***Temporal***

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

## **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

### 5.3.9 Logging Equipment

SCC: 22 60 004 000 (2-Stroke)  
22 65 004 000 (4-Stroke)  
22 70 004 000 (Diesel)

#### **Description**

Logging equipment includes chainsaws, shredders, and skidders. Emissions result from operation of the internal combustion engines that power the equipment.

#### **Pollutants**

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

#### **Method and Data Sources**

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

##### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

#### **Spatial and Temporal Allocations**

### *Spatial*

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

### *Temporal*

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

## **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

### 5.3.10 Railway Maintenance

SCC: 22 85 002 015 (4-Stroke) Gasoline  
22 85 004 015 (Diesel)  
22 85 006 015 (LPG)

#### **Description**

Railway maintenance equipment is equipment specifically used for repair, maintenance, and construction of rail lines. Examples of some rail equipment are ballast handlers, rail and tie handlers, and rail straightening equipment.

#### **Pollutants**

PM<sub>2.5</sub> -PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, NH<sub>3</sub>, and HAPs

#### **Method and Data Sources**

##### *Data sources*

- EPA NONROAD2008a Emissions Model contains an overview of the model, equipment types, pollutants reported, geographic and temporal coverage, the model components, model inputs, and output options. The EPA's NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide documents how to install and run the model and the associated reporting utilities. Websites: [NONROAD2005 User's Guide \(PDF\)](#) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.
- MOVES2014a Website: <https://www.epa.gov/moves/moves2014a-latest-version-motor-vehicle-emission-simulator-moves>.

##### *Methods sources*

Based upon EPA's requirements for determining nonroad emissions, the Department ran NONROAD2008a model to determine the emission estimates for 2014. MDE-ARA opted to choose monthly seasonal (annual and summer) period totals as the output files from the model.

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustments for Controls**

The NONROAD2008a model automatically applies controls, when applicable, for a given year.

#### **Spatial and Temporal Allocations**



### *Spatial*

The NONROAD2008a model spatially allocates equipment populations and emissions. Input files specify the state or county then sets up the population and allocation factor data files for the chosen state.

### *Temporal*

The NONROAD2008a model allocates activity and emissions. The emissions for the month of July was chosen and then divided by 31 (days) to get an average day for that month.

## **Emissions Calculation**

The NONROAD2008a model estimates the amount of pollution emitted by a particular type of equipment during a unit of use. Typically, emission factors for nonroad sources are reported in grams per horsepower-hour (g/hp-hr), but they also may be reported in grams per mile, grams per hour, and grams per gallon. These emission factors are stored in NONROAD2008a's data input files. NONROAD2008a adjusts these emission factors as necessary to account for the effects of fuel sulfur. Emission changes with the age of the engine, often called 'deterioration', are also applied by the model.

## 5.4 RAILROADS

SCC: 22 85 002 006 (Class I - Line Haul)

SCC: 22 85 002 007 (Class II and III)

SCC: 22 85 002 008 (Passenger)

SCC: 22 85 002 009 (Commuter)

SCC: 22 85 002 010 (Yard Engines)

### Description

Railroad locomotives used in the United States are primarily of two types: electric and diesel-electric. Electric locomotives are powered by electricity generated at stationary power plants. Emissions are produced only at the electrical generation plant, which is considered a point source and therefore not included here. Diesel-electric locomotives, on the other hand, use a diesel engine and an alternator or generator to produce the electricity required to power its traction motors. Emissions produced by these diesel engines are of interest in emission inventory development. Other sources of emissions from railroad operations include the small gasoline and diesel engines used on refrigerated and heated rail cars. These engines are thermostatically controlled, working independently of train motive power, and fall in the category of nonroad equipment, addressed elsewhere in this document.

Locomotives can perform two different types of operations: Line Haul and Yard. Line haul locomotives, which perform the line haul operations, generally travel between distant locations, such as from one city to another. Yard locomotives, which perform yard operations, are primarily responsible for moving railcars within a particular railway yard. The use of these engines can be further divided into subcategories such as, Class 1, Class 2, Class3, Passenger, and Commuter.

### Rail Classification –

**1. Class I railroad:** is a large freight railroad company, with annual operating revenue in excess of \$250 million dollars as defined by the Surface Transportation Board (STB) and Bureau of Labor Statistics (BLS)

**2. Class II railroad:** mid-sized freight-hauling railroads with revenues greater than \$20.5 million, but less than \$250 million for at least three consecutive years. Switching and terminal railroads are excluded from Class II status

**3. Class III railroad:** annual operating revenue is less than \$20 million. Class III railroads are typically local short line railroads, serving a few towns or industries; many Class III railroads were once part of larger railroads

**Class II and Class III are also defined by different labor regulations creating the two classes.**

**4. Passenger Railroad:** passenger trains or passenger-carrying vehicles. It may be a self powered railcars, or else a combination of one or more engines and one or more unpowered trailers. These trains travel station to station or to a depot where passengers board and get off, usually operate on a fixed schedule

**5. Commuter rail:** called **suburban rail**, transport passengers, but only between a city and outer suburbs or nearby towns where people need to travel to on a daily basis, for reasons like working. Commuter trains also operate by schedules

### **Pollutants**

PM2.5-PRI, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC and HAPs

### **Method and**

#### **Data Sources:**

The following eleven railroad companies operated in Maryland and were asked to provide the amount of fuel used in 2014, and the distribution of the company's track mileage by Maryland County:

<b>Railroad Company</b>	<b>Railroad Classification</b>
1. AMTRAK	Passenger Railroad
2. Canton Railroad Company	Class III - <b>Only Yard Railroad</b>
3. CSX Transportation, Incorporated	Class I – Plus Yard Railroad
4. Bay Coast Railroad	Class II Railroad
5. Maryland & Delaware Railroad Company	Yard Railroad in MD
6. Maryland Midland Railway, Incorporated	Class II
7. Norfolk and Southern Railway Company	Class I – Plus Yard Railroad
8. Western Maryland Scenic Railroad	Passenger Railroad
9. Winchester and Western Railroad Company	Class III Railroad
10. MARC	Commuter Railroad
11. Walkersville Southern Railroad	Passenger Railroad

Class 1 railroads CSX and Norfolk operating statistics contained in R-1 reports were obtained from the Surface Transportation Board under the Office of Economics, Environmental Analysis and Administration were used to add in estimating the amount of fuel used within the state.

MDE received fuel usage and track mileage data from all the railroads. Fuel usage was proportioned to each county by the amount of track miles each company utilized in a county.

### ***Activity***

A survey of railroad petroleum consumption and track mileage was conducted.

### ***Emission Factor***

Emission factors were obtained from the US EPA's and OTAC's Emissions Factors for Locomotives, Technical Highlights document, EPA-420-F-09-025 April 2009. The factors were in grams per gallon, but were converted to pounds per gallon for easier conversion of pollutant totals to tons later.

Emission Factor for Locomotives			
	<u>Line Haul</u>		<u>Yard</u>
<b>VOC</b>	0.0179 lbs/gal	<b>VOC</b>	0.0325lbs/gal
<b>NOx</b>	0.3285 lbs/gal	<b>NOx</b>	0.5181 lbs/gal
<b>CO</b>	0.0587 lbs/gal	<b>CO</b>	0.0587 lbs/gal
<b>SO2</b>	0.0001 lbs/gal	<b>SO2</b>	0.0001 lbs/gal
<b>PM10</b>	0.0097 lbs/gal	<b>PM10</b>	0.0117 lbs/gal
<b>PM25</b>	0.0094 lbs/gal	<b>PM25</b>	0.0113 lbs/gal

SO<sub>2</sub> emissions were calculated based on a sulfur content percent weight.

EPA estimates that yard locomotives operate 365 days per year (assuming that when a yard engine is taken in for repairs it is replaced during this period) and consumes an average of 228 gallons per day.

### **Point Source**

#### **Adjustments**

No subtraction of emissions from point sources is necessary.

### **Adjustments**

#### **for Controls**

Controls through Tier regulations were included in the EPA estimated emission factors.

### **Spatial and**

#### **Temporal**

#### **Allocations**

##### ***Spatial***

Emission estimates are based on fuel consumption. Company supplied state total fuel usage was allocated to the county level by the proportion of track miles used in a particular county.

##### ***Temporal***

SAF was applied to emissions and were averaged according to period of operation to a daily estimate. See section 2.2.1.1

## Emissions Calculation

When specific county information was not provided, the following equations were used to compute the amount of fuel consumed by each railroad in each Maryland County.

$$G_{CTY} = \frac{M_{CTY}}{M_{ST}} * G_{ST}$$

Where:

$M_{CTY}$  = mileage of company tracks in the county

$M_{ST}$  = mileage of company tracks in the state

$G_{ST}$  = amount of total fuel used in gallons by the company in the state

$G_{CTY}$  = amount of total fuel used in gallons by the company in the county

The following equation was used to calculate the emissions for line haul locomotives from each railroad company operating in a county.

$$E_{LH-i-CTYj} = \frac{Fuel_{CTY} \times EF_{LH}}{2000}$$

Where:

$E_{LH-i-CTYj}$  = Emissions from line haul railroad locomotives for pollutant i in County j

$Fuel_{CTYj}$  = Total amount of fuel consumed by every railroad operating in the calculated county

$Fuel_{CTYj}$  = ( $G_{cty1} + G_{cty2} + \dots + G_{cty12}$ )

$EF_{LH}$  = line haul locomotive emission factor for a given pollutant

The following equation was used to calculate the yearly emissions for yard locomotives from each railroad company operating in a county.

$$E_{YL-i-CTYj} = \frac{N_{YL-i-CTYj} \times 228 \times EF_{YL} \times 365}{2000}$$

Where:

$E_{YL-i-CTYj}$  = Emissions from yard locomotives for pollutant i in County j

$N_{YL-i-CTYj}$  = number of yard locomotives operated by each railroad company in county j

$N_{YL-i-CTYj}$  = ( $N_{cty1} + N_{cty2} + \dots + N_{cty12}$ )

$EF_{YL}$  = Yard locomotive emission factor for a given pollutant

### Example Calculations:

Allegany County Passenger Rail Emissions (only part of emissions table)

#### ***Line Haul Emission Estimate***

AMTRAK and Western Maryland Scenic Railroad operated line haul locomotives in the county.

Amount of fuel used in gallons provided by railroads:

$G_{\text{ctyAMTRAK}} = 20,075$  gallons used in Allegany Co. per year by AMTRAK

$G_{\text{ctyWMDSENIC}} = 10,555$  gallons used in Allegany Co. per year by Western Maryland Scenic

EPA Tier controlled VOC emission factor for 2014 is 0.0142 lbs. voc /gal

VOC Emissions from line haul locomotives in Allegany County:

$$EM_{\text{AlleganyPassVOC}} = \frac{(20,075 \text{ gal / yr} + 10,555 \text{ gal / yr}) * 0.0142 \text{ lbs. voc /gal}}{(2000 \text{ lbs. per ton})}$$

$$EM_{\text{AlleganyPassVOC}} = \mathbf{0.22 \text{ tons voc / year}}$$

EPA Tier controlled NOX emission factor for 2014 is 0.2976 lbs. NOX /gal

NOx Emissions from line haul locomotives in Allegany County:

$$EM_{\text{AlleganyPassNOX}} = \frac{(20,075 \text{ gal / yr} + 10,555 \text{ gal / yr}) * 0.2976 \text{ lbs. NOX /gal}}{(2000 \text{ lbs. per ton})}$$

$$EM_{\text{AlleganyPassNOX}} = \mathbf{4.56 \text{ tons NOX / year}}$$

EPA Tier controlled CO emission factor for 2014 is 0.0587 lbs. co /gal

CO Emissions from line haul locomotives in Allegany County:

$$EM_{\text{AlleganyPassCO}} = \frac{(20,075 \text{ gal / yr} + 10,555 \text{ gal / yr}) * 0.0587 \text{ lbs. co /gal}}{(2000 \text{ lbs. per ton})}$$

$$EM_{\text{AlleganyPassCO}} = \mathbf{0.90 \text{ tons co / year}}$$

#### ***Yard Locomotives Emission Estimate***

CSX reportedly operated 4 yard locomotives in Anne Arundel County at 304 cumulative duty hours for the year at a rate of 247.18 gallons of fuel per hour.

$$CSX_{\text{FUEL}} = (304 \times 247.18) = 75,143 \text{ gallons}$$

VOC Emissions from yard locomotives in Anne Arundel County:

EPA Tier controlled VOC emission factor for 2014 is 0.0295 lbs. voc /gal

$$EM_{\text{CSXVOC}} = \frac{(75,143 \text{ gal / yr}) \times (0.0295 \text{ lbs. voc /gal})}{(2000 \text{ lbs. per ton})}$$

$$EM_{CSXVOC} = 1.11 \text{ tons VOC / year}$$

NO<sub>x</sub> Emissions from *yard* locomotives in Anne Arundel County:  
 EPA Tier controlled NO<sub>x</sub> emission factor for 2014 is 0.4784 lbs. NO<sub>x</sub>/gal

$$EM_{CSXNOX} = \frac{(75,143 \text{ gal / yr}) \times (0.4784 \text{ lbs. NO}_x/\text{gal})}{(2000 \text{ lbs. per ton})}$$

$$EM_{CSXNOX} = 17.97 \text{ tons VOC / year}$$

CO Emissions from *yard* locomotives in Anne Arundel County:  
 EPA Tier controlled CO emission factor for 2014 is 0.0587 lbs. CO/gal

$$EM_{CSXCO} = \frac{(75,143 \text{ gal / yr}) \times (0.0587 \text{ lbs. CO/gal})}{(2000 \text{ lbs. per ton})}$$

$$EM_{CSXCO} = 2.21 \text{ tons CO / year}$$

Daily emissions for rail were calculated by taking the annual emissions and dividing them by 365 (days).

$$EM_{CSXCO} = 6.05E-03 \text{ tons CO / day}$$

## 5.5 AIRCRAFT

SCC: 22 75 020 000 (Commercial Aircraft)

SCC: 22 75 050 000 (General Aviation)

SCC: 22 75 060 000 (Air Taxi)

SCC: 22 75 001 000 (Military Aviation)

### **Description:**

This category includes three sub-categories identified as: commercial aircraft, general aviation, and military aircraft. Commercial aircraft are used in regularly scheduled flights transporting passengers, freight, or both. General aviation, which includes air taxis and commuter aviation, is used for recreational flying, business travel, personal transportation, and various other activities. Military aviation is the operation and activities of military aircraft at airports in Maryland. Air Taxi operation can be separated into its own subcategory.

### **Pollutants**

PRI-PM<sub>10</sub>, PRI-PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x</sub>, CO, VOC

### **Method and**

### **Data Sources**

ARA used a variety of sources for data and emission calculation methods as follows:

#### ***Data sources***

- 1) Federal Aviation Administration (FAA) website contains airport activity statistics for some Maryland airports and air fields by subcategory description, plane, and engine types.
- 2) Landing and takeoff cycle information was obtained from the Maryland Aviation Administration for BWI, Martin State, Military Bases, several large, and several small airport and air fields.
- 3) The MDE's Emission Inventory section also performed a statewide survey to obtain LTO, engine type, location, and usage data from over 200 individual airports and air fields.

#### ***Methods sources***

- 1) For general aviation ARA used emission factors supplied in Procedures for Emission Inventory Preparation, Volume IV: Mobile Sources, EPA's Office of Mobile Sources, 1992. This source provided emission factors for specific commercial engine types, and alternative fleet average factors for general aviation, air taxis, and commuter aircraft.
- 2) For military aircraft ARA used a composite factor from section 5.2.5, Table 5-7 of Procedures for Emission Inventory Preparation, Volume IV: Mobile Sources, 1988. This method required ARA to collect LTO data rather than specific aircraft data. For the 2014 inventory ARA requested operation data for military aircraft from Maryland Army, Navy, and Air Force base environmental support offices.



- 3) For commercial aviation ARA used FAA's EDMS<sup>1</sup> emissions model and databases. EDMS is designed to assess the air quality impacts of airport emission sources, particularly aviation sources, which consist of aircraft, auxiliary power units, and ground support equipment. EDMS features the latest aircraft engine emission factors from the International Civil Aviation Organization (ICAO) Engine Exhaust Emissions Data Bank, vehicle emission factors from EPA MOBILE 6.2, and EPA-validated dispersion algorithms. Aircraft activity includes landside and airside operations. EDMS defines four distinct modes of aircraft operation based upon EPA and FAA guidance: approach, taxi/idle, takeoff, and climb out. Together, these four modes constitute one Landing and Takeoff (LTO) cycle. EDMS calculates aircraft emissions based on these four modes.
- 4) For all aircraft types, ARA used a default mixing height value of 3,000 feet above ground level. The mixing height is the layer of air where airplane emissions affect ground level emission concentrations. Above the mixing level, pollutants are transported away according to sections 5.2.2 of the 1992 Procedures. Because of the mixing height, ARA assigned all aircraft emissions from a particular airport to the county where that airport was located. We assumed no seasonal variation and a seven day per week activity level.

#### **Point Source Adjustments**

No subtraction of emissions from point sources is necessary.

#### **Adjustment for Controls**

No controls are available for this source category.

#### **Spatial and Temporal Allocations**

##### *Spatial*

Data for spatial allocation is not available for this source.

##### *Temporal*

In EDMS actual weather (annual average values or hourly values) are in used for both modeling. **Daily emissions for rail were calculated by taking the annual emissions and dividing them by 365 (days).**

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<sup>1</sup> Emissions & Dispersion Modeling System (EDMS) Version 5.1 for Windows from CSSI, Inc

### 5.5.1 Commercial Aircraft

SCC: 22 75 020 000

#### Steps in Creating and Airport Emission Inventory in EDMS:

- 1) Open the EDMS model and create a new study for the airport in question. Choose the airport identification code. Enter the parameters (name, measuring and reporting units, and analysis year you want modeled).
- 2) Provide EDMS with information to compute the emissions inventory. Begin by matching engines with aircraft and assigning them to the study. Select the aircraft to be used in the study (data that is collected from the airport) by picking the aircraft name from the menus. EDMS automatically associates specific aircraft with certain engine types (Choose from list).
- 3) For each aircraft fill in the yearly LTO cycles provided by surveying the airport.
- 4) Each time you fill in LTOs the model will automatically default the taxi time and queue time specific to the specified airport or use the EDMS provide default values.
- 5) Continue to add each aircraft/engine type, LTO cycle until all are LTOs are entered for that study.
- 6) EDMS has tables built into the model that associate aircraft type with the number of engines, auxiliary power units and ground support equipment. The model also assigns default values for Takeoff Time (typically 0.3 minutes), Climbout Time (typically 5 minutes), and Approach Time (typically 6 minutes).
- 7) If emissions from parking lots, roadways, stationary sources, and training fires are also required, complete the dialog boxes associated with each of these subcategories.
- 8) Run the EDMS emission inventory program and view the results.

#### **Emissions Calculation**

The data for aircraft engines listed below in Table 5.5.1-a are defaults used to calculate emissions within the EDMS Model. Each mode of operation, such as, annual LTO operations, average taxi time, approach, climb-out, takeoff, and annual queue times are used in the estimation of emissions, but LTO operations was taken from FAA and airport records.

**TABLE 5.5.1-a EDMS Aircraft & Engine Estimated Averages and Defaults Data**

<b>Aircraft Name</b>	<b>Aircraft Type</b>	<b>Engine Assigned</b>	<b>Approach Time (min)</b>	<b>Climbout Time (min)</b>	<b>Takeoff Time (min)</b>	<b>Annual LTO</b>	<b>Taxi Time (min)</b>	<b>Queue Time (min)</b>
Falcon 100	GA	TFE731-3	1.60	0.50	0.40	1825	10.50	3.00
P-337P Skymaster	GA	TSIO-360C	4.50	2.50	0.50	9490	10.50	3.00
550 Citation	GA	JT15D-4 (B,C,D)	1.60	0.50	0.40	2190	10.50	3.00
A320	Comm	CFM56-5B4	4.00	2.20	0.70	2555	10.50	3.00
AH-1	Military	T53-L-11D	6.80	6.80	0.00	1825	10.50	3.00
ATR42	Comm	PW120	4.50	2.50	0.50	2190	10.50	3.00
B727-100	Comm	JT8D-7A	4.00	2.20	0.70	8030	10.50	3.00

<b>Aircraft Name</b>	<b>Aircraft Type</b>	<b>Engine Assigned</b>	<b>Approach Time (min)</b>	<b>Climbout Time (min)</b>	<b>Takeoff Time (min)</b>	<b>Annual LTO</b>	<b>Taxi Time (min)</b>	<b>Queue Time (min)</b>
B737-200	Comm	JT8D-15A	4.00	2.20	0.70	21900	10.50	3.00
B737-300	Comm	CFM56-3B	4.00	2.20	0.70	13140	10.50	3.00
B737-400	Comm	CFM56-3B	4.00	2.20	0.70	3650	10.50	3.00
B737-500	Comm	CFM56-3B	4.00	2.20	0.70	8030	10.50	3.00
B737-700	Comm	CFM56-3C-1	4.00	2.20	0.70	730	10.50	3.00
B747-100	Comm	JT9D-7A	4.00	2.20	0.70	183	10.50	3.00
B757-200	Comm	PW2037	4.00	2.20	0.70	7665	10.50	3.00
B767-200	Comm	CF6-80A (A1)	4.00	2.20	0.70	1095	10.50	3.00
BAE ATP	Comm	PT6A-45	4.00	2.20	0.70	2555	10.50	3.00
BH-1900	Comm	PT6A-65B	1.60	0.50	0.40	3285	10.50	3.00
C-12A/B/C	Military	PT6A-41	3.50	0.80	0.40	730	10.50	3.00
C-130 Hercules	Military	T56-A-16	5.10	1.20	0.40	365	10.50	3.00
C-9A	Military	JT8D-9	5.10	1.20	0.40	365	10.50	3.00
Canadair Reg-100	Comm	CF34-3A1	4.00	2.20	0.70	730	10.50	3.00
Cessna 150	GA	O-200	6.00	5.00	0.30	5110	10.50	3.00
Convair liner	Comm	RDA10	4.50	2.50	0.50	365	10.50	3.00
DC10-10	Comm	CF6-50C	4.00	2.20	0.70	730	10.50	3.00
DC9-10	Comm	JT8D-7A	4.00	2.20	0.70	4380	10.50	3.00
DHC-8	Comm	PW120	4.50	2.50	0.50	3650	10.50	3.00
DHC-8-400	Comm	PW123	4.50	2.50	0.50	18250	10.50	3.00
F-16	Military	F100-PW-100	3.50	0.80	0.40	183	10.50	3.00
F-27 Series	Military	RDa7	4.50	2.50	0.50	365	10.50	3.00
Fokker 100	GA	TAY650	4.00	2.20	0.70	365	10.50	3.00
H-46 Sea Knight	Military	T58-GE-8F	6.80	6.80	0.00	183	10.50	3.00
Kingair B200	GA	PT6A-41	1.60	0.50	0.40	5840	10.50	3.00
Learjet 25B	GA	CJ610-6	1.60	0.50	0.40	1460	10.50	3.00
MD-11	Comm	CF6-80C2D1F	4.00	2.20	0.70	730	10.50	3.00
MD-80	Comm	JT8D-209	4.00	2.20	0.70	4563	10.50	3.00
MD-80-88	Comm	JT8D-217	4.00	2.20	0.70	1825	10.50	3.00
MD-90-10	Comm	V2525-D5	4.00	2.20	0.70	365	10.50	3.00

<b>Aircraft Name</b>	<b>Aircraft Type</b>	<b>Engine Assigned</b>	<b>Approach Time (min)</b>	<b>Climbout Time (min)</b>	<b>Takeoff Time (min)</b>	<b>Annual LTO</b>	<b>Taxi Time (min)</b>	<b>Queue Time (min)</b>
Porter PC6/B2	Military	PT6A-27	4.50	2.50	0.50	730	10.50	3.00
SF-340-A	Comm	CT7-5	4.50	2.50	0.50	730	10.50	3.00
Swearingen Merlin	Comm	TPE331-3	4.50	2.50	0.50	2920	10.50	3.00
Swearingen Merlin	Comm	TPE331-3	4.50	2.50	0.50	365	10.50	3.00

Once all of the data is entered into the model, the model produces an emission inventory. **Defaults data is updated as new revisions of the model are posted.** For the latest Annual emission totals inventory are listed in the table below:

The model will also produce an inventory specific to each aircraft type, which allows the data to be separated into types (commercial, general aviation, and military) of operation. For BWI the separation results in the following:

**TABLE 5.5.1-b BWI Category Emissions Summary Using EDMS**

<b>NAME</b>	<b>CO Tons/year</b>	<b>VOC Tons/year</b>	<b>NOX Tons/year</b>	<b>SOX Tons/year</b>	<b>PM10 Tons/year</b>	<b>PM2.5 Tons/year</b>
Commercial Aircraft	924.84	184.05	831.54	94.25	23.40	23.40
General Aviation	71.47	14.22	64.26	7.28	1.81	1.81
Air Taxi	112.10	22.31	100.79	11.42	2.84	2.84
Military Aviation	19.66	3.91	17.68	2.00	0.50	0.50
<b>Total</b>	<b>1,128.07</b>	<b>224.50</b>	<b>1,014.27</b>	<b>114.96</b>	<b>28.54</b>	<b>28.54</b>

The model was run for all aircraft at BWI, Martin State, Hagerstown Regional, Ocean City Municipal, Frederick County, Phillips Air Field, Weide Army Air Field and Andrews Air Force

## 5.5.2 General Aviation

SCC: 22 75 050 000

### Emission Calculation

An estimate of emissions was calculated after information on the LTO operations of aircraft operation type was obtained from Maryland's airports. This method used the alternative fleet-average procedure of Section 5.2.4.2 of Procedures, 1992. The composite emission factors used are listed in the table below.

**TABLE 5.5.2-a EPA Emission Factors for Aircraft**

Aviation Category	CO (lbs./LTO)	VOC (lbs./LTO)	NOx (lbs./LTO)	SO2 (lbs./LTO)	PM10-PRI (lbs./LTO)	PM2.5-PRI (lbs./LTO)
General Aviation	12.014	0.382	0.065	0.100	0.020	0.020
Air Taxis	28.130	1.223	0.158	0.015	0.020	0.020
Military	48.800	27.10	9.160	1.430	15.23	15.23

\* Requires Hydrocarbon to VOC conversion factor of 0.9708 for General Aviation and 0.9914 for Air Taxis.

$$1) \text{Emiss}_{\text{VOC}} = \text{LTO (GA)} * \text{EF (GA)}_{\text{VOC}}$$

Where:

LTO (GA) = LTOs for General Aviation

EF (GA)<sub>xx</sub> = Emission Factors for General Aviation

$$2) \text{Emiss}_{\text{VOC}} = \text{LTO (AT)} * \text{EF (AT)}_{\text{VOC}}$$

Where:

LTO (AT) = LTOs for Air Taxis

EF (AT)<sub>xx</sub> = Emission factors for Air Taxis

### *Sample Calculation – General Aviation:*

This calculation is for Calvert County. The combined airports had 1,400 General Aviation LTOs over a twelve month period.

$$\text{Emiss}_{\text{VOC}} = [\text{LTO (GA)} * \text{EF (GA)}_{\text{HC}}] * \text{CF (VOC/HC)}$$

$$\text{Emiss}_{\text{VOC}} = [(1,400 \text{ LTOs / Year} * 0.394 \text{ (lbs. HC / LTO)}) * 0.9708 \text{ (lbs. VOC / lbs. HC)}]$$

$$\text{Emiss}_{\text{VOC}} = 535.49 \text{ lbs. VOC / Year}$$

$$\text{Emiss}_{\text{VOC}} = \mathbf{0.27 \text{ Tons VOC / Year}}$$

$E_{\text{missCO}} = [1,400 \text{ LTOs / Year} * 12.014 \text{ (lbs. CO / LTO)}]$   
 $E_{\text{missCO}} = 16,819.60 \text{ lbs. of CO / Year}$   
 **$E_{\text{missCO}} = 8.41 \text{ Tons CO / Year}$**

$E_{\text{missNO}_x} = [1,400 \text{ LTOs / Year} * 0.065 \text{ (lbs. NO}_x \text{ / LTO)}]$   
 $E_{\text{missNO}_x} = 91.00 \text{ lbs. of NO}_x \text{ / Year}$   
 **$E_{\text{missNO}_x} = 0.05 \text{ Tons NO}_x \text{ / Year}$**

$E_{\text{missSO}_2} = [1,400 \text{ LTOs / Year} * 0.100 \text{ (lbs. SO}_2 \text{ / LTO)}]$   
 $E_{\text{missSO}_2} = 140 \text{ lbs. of SO}_2 \text{ / Year}$   
 **$E_{\text{missSO}_2} = 0.07 \text{ Tons SO}_2 \text{ / Year}$**

$E_{\text{missPM}_{2.5\text{-PRI}}} = [1,400 \text{ LTOs / Year} * 0.020 \text{ (lbs. PM}_{2.5\text{-PRI}} \text{ / LTO)}]$   
 $E_{\text{missPM}_{2.5\text{-PRI}}} = 28.00 \text{ lbs. of PM}_{\text{PM}_{2.5\text{-PRI}}} \text{ / Year}$   
 **$E_{\text{missPM}_{2.5\text{-PRI}}} = 0.01 \text{ Tons PM}_{\text{PM}_{2.5\text{-PRI}}} \text{ / Year}$**

**Daily calculation can be made for each county (see example below)**

Calvert County General Aviation CO total was:

**$E_{\text{missCO}} = 8.41 \text{ Tons CO / Year}$**

$E_{\text{missCO}} = 8.41/365 \text{ Tons CO / Day}$

**$E_{\text{missCO}} = 2.30\text{E-}02 \text{ Tons CO / Day}$**

### 5.5.3 Military Aircraft

SCC: 22 75 001 000

There are five military airports in Maryland. They are Andrews Air Force Base, Fort Meade/Tipton, Aberdeen, Patuxent River Naval Air Station, and Martin State Airport. ARA received LTO and onsite emission information from some military airports and emission totals from others due to national security concerns. Most of the county airports also receive a small number of military operations.

#### Method and Data Sources

Since ARA asked for and received LTO information by aircraft operation type, ARA used composite emission factors from Procedures for Emission Inventory Preparation, Volume IV: Mobile Sources, 1988 and the EDMS model (version 5.1).

**TABLE 5.5.3-a EPA Emission Factors for Military Aircraft**

	CO (lbs./LTO)	VOC (lbs./LTO)	NOx (lbs./LTO)	SO2 (lbs./LTO)	PM (lbs./LTO)
Military Aircraft	48.80	27.10	9.160	1.43	15.230

$$1) \text{Emiss}_{\text{VOC}} = L(\text{MA}) * \text{EF}(\text{MA})_{\text{VOC}}$$

Where:

$L(\text{MA})$  = LTOs for Military Aircraft

$\text{EF}(\text{MA})_{\text{xx}}$  = Emission factors for Military Aircraft

#### Emissions Calculation

Sometime military bases use commercial or other local fields. It was reported the military made 45 LTOs at Carroll County Regional Airport and 100 at Reservoir Airport in Carroll County. Total 145 Military LTOs in Carroll County.

$$\text{Emiss}_{\text{VOC}} = [L(\text{AT}) * \text{EF}(\text{MA})_{\text{HC}}]$$

$$\text{Emiss}_{\text{VOC}} = [(145 \text{ LTOs} / \text{Year} * 27.10 \text{ (lbs. VOC / LTO)})]$$

$$\text{Emiss}_{\text{VOC}} = 3,929.5 \text{ lbs. VOC / Year}$$

$$\text{Emiss}_{\text{VOC}} = \mathbf{1.96 \text{ Tons VOC / Year}}$$

$$\text{Emiss}_{\text{CO}} = [145 \text{ LTOs} / \text{Year} * 48.80 \text{ (lbs. CO / LTO)}]$$

$$\text{Emiss}_{\text{CO}} = 7,076 \text{ lbs. of CO / Year}$$

$$\text{Emiss}_{\text{CO}} = \mathbf{3.54 \text{ Tons CO / Year}}$$

$$\text{Emiss}_{\text{NOx}} = [145 \text{ LTOs} / \text{Year} * 9.160 \text{ (lbs. NOx / LTO)}]$$

$$\text{Emiss}_{\text{NOx}} = 1,328.20 \text{ lbs. of NOx / Year}$$

$$\text{Emiss}_{\text{NOx}} = \mathbf{0.66 \text{ Tons NOx / Year}}$$

$$\text{Emiss}_{\text{SO}_2} = [145 \text{ LTOs / Year} * 1.43 \text{ (lbs. SO}_2 \text{ / LTO)}]$$

$$\text{Emiss}_{\text{SO}_2} = 207.35 \text{ lbs. of SO}_2 \text{ / Year}$$

$$\text{Emiss}_{\text{SO}_2} = \mathbf{0.10 \text{ Tons SO}_2 \text{ / Year}}$$

$$\text{Emiss}_{\text{PM}_{2.5-\text{PRI}}} = [145 \text{ LTOs / Year} * 15.23 \text{ (lbs. PM / LTO)}]$$

$$\text{Emiss}_{\text{PM}_{2.5-\text{PRI}}} = 2,208.35 \text{ lbs. of PM}_{\text{PM}_{2.5-\text{PRI}}} \text{ / Year}$$

$$\text{Emiss}_{\text{PM}_{2.5-\text{PRI}}} = \mathbf{1.10 \text{ Tons PM}_{\text{PM}_{2.5-\text{PRI}}} \text{ / Year}}$$

**Daily calculation can be made for each county (see example below)**

Military emissions in Carroll County CO total were:

$$\text{Emiss}_{\text{CO}} = \mathbf{3.54 \text{ Tons CO / Year}}$$

$$\text{Emiss}_{\text{CO}} = 3.54/365 \text{ Tons CO / Day}$$

$$\text{Emiss}_{\text{CO}} = \mathbf{9.70\text{E-}03 \text{ Tons CO / Day}}$$



## 5.6 MARINE VESSELS

SCC: 2280002100 (Diesel Oil – Port)  
2280002200 (Diesel Oil – Underway)  
2280003100 (Residual Oil – Port)  
2280003200 (Residual Oil – Underway)

### Description

Commercial Marine Vessels (CMV) includes all boats and ships used either directly or indirectly for commerce or military activity. These include vessels ranging in size from 20-foot charter boats to the largest tankers and military vessels, which can exceed 1,000 feet in length. “The CMV source category does not include recreational marine vessels, which are generally less than 100 feet in length, most being less than 30 feet, and powered by either inboard or outboard. These emissions are included in those calculated by the NONROAD model.”

### Pollutants

PM2.5-PRI, PM10-PRI, SO<sub>2</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, VOC, NH<sub>3</sub>, and 22 HAPS

### Method and Data Sources

Historically, MDE used marine vessels data prepared by the Baltimore Maritime Exchange (BME) to develop and calculated commercial marine vessels emissions inventory and referred to the marine emission inventory guidance method outlined in Analysis of Commercial Marine Vessels Emissions and Fuel Consumption Data (EPA-450-R-00-002), February 2000. However, EPA offers the most recent descriptions and current methodologies used for the calculations for CMV inventory. MDE performed analysis comparison between MDE and EPA’s 2014 CMV emissions estimates. After these analysis comparisons, MDE decided to adopt EPA’s emissions estimates and methodology for Maryland’s 2014 CMV inventory cycle.

To calculate the 2014 CMV emission inventory estimates, the EPA used a bottom up methodology approach. The EPA’s bottom up methodology approach was base on EPA collecting 1) national activity data (kilowatt hours or kW) of CMV, 2) engine operating load factors, and 3) emission factors and HAPs speciation profiles.

EPA then incorporated informational data sets on vessels movement/waterway-route segments and speeds were used to estimate emissions by ship types for a given port.

The data sets on vessels movement/waterway-route segments and speeds by ship types then were intersected with EPA’s NEI shapefiles of ports and shipping lanes. Shipping lanes associated with RSZs were coded to allow for adjustment in vessel speed, time spent transiting the RSZ, and engine operating load.

EPA also used Emissions Modeling Platform Criteria pollutant estimates to allocated and determine shapeID files ratio for underway and port county combinations. In cases where model files had emissions in counties with shape IDs, emissions were allocated to shapes in those counties proportionately to shape area. However, in

cases where model files had emissions in counties for which EPA had no shapeIDs, the model file emissions were dropped. In all these cases, emissions were very small and considered to be negligible.

To derived HAP estimates, the EPA applied toxic fractions to VOC or PM estimates. HAP speciation fractions based on VOC and PM were employed to calculate HAPs.

For each of the commercial marine vessels SCCs, an appropriate emissions type (M=maneuvering, H=hotelling, C=cruise, Z=reduced speed zone) was applied because emission factors vary by emission type. Each SCC and emissions type combination was allocated to a shape file identifier in the nonpoint inventory. The allowed combinations are shown in Table 4.6.1. The default values are those assumed when the actual emission type may be unknown; for example, emissions that occur in shipping lanes are assumed to be ‘cruising’ and cannot be ‘hotelling’, which only occurs at ports. See Table 4.6.1. Also see Table 4.6.2 for CMV Vessel Types, Table 4.6.3 for Vessel Speed Data, and Table 4.6.4 for Vessel Power Attributes by Vessel Type.

**TABLE 5.6.1-a** Commercial Marine Vessel SCCs and emission types

SCC	SCC Description	Allowed	Default
2280002100	Marine Vessels, Commercial Diesel Port	M	M
2280002200	Marine Vessels, Commercial Diesel Underway	C	C
2280003100	Marine Vessels, Commercial Residual Port	H	H
2280003100	Marine Vessels, Commercial Residual Port	M	H
2280003200	Marine Vessels, Commercial Residual Underway	C	C
2280003200	Marine Vessels, Commercial Residual Underway	Z	C

**TABLE 5.6.1-b** Marine Vessel Ship Types

Ship Types	
Bulk Carrier (Laker)	Bouy Tender
Barge	Ferries
Coast Guard	Fishing
Container	FPSO
Dredger	Passenger
Drilling	Pipelaying
General Cargo	Refrigerated Cargo (Reefer)
Icebreaker	Research
Roll On-Roll Off (RORO)	Tug
Tanker (Oil/LNG/LPG)	Vehicle Carrier
Miscellaneous	Supply
Well Stimulation	Support

**TABLE 5.6.1-c Vessel Speed Data**

Ship Type	Size Category	Size Units	Ratio of average at-sea speed to design speed	Percent of total population	Weight amount	Weighted Cruising Speed Factor
Bulk Carrier	0-9999	dwt	0.84	0.9%	0.007403	0.822751023
	10000-34999		0.82	25.1%	0.20571	
	35000-59999		0.82	36.0%	0.295272	
	60000-99999		0.83	31.7%	0.26308	
	100000-199999		0.81	6.2%	0.050227	
	200000+		0.84	0.1%	0.001058	
Container	0-999	TEU	0.77	4.9%	0.038087	0.681508656
	1000-1999		0.73	11.8%	0.086059	
	2000-2999		0.7	12.5%	0.087716	
	3000-4999		0.68	32.8%	0.223116	
	5000-7999		0.65	28.6%	0.185944	
	8000-11999		0.65	9.0%	0.058409	
	12000-14500		0.66	0.3%	0.002176	
	14500+		0.6	0.0%	0	
Oil Tanker	0-4999	dwt	0.8	0.1%	0.001094	0.782982216
	5000-9999		0.75	0.3%	0.002052	
	10000-19999		0.76	0.0%	0.0	
	20000-59999		0.8	3.6%	0.028454	
	60000-79999		0.81	15.6%	0.12632	
	80000-11999		0.78	43.4%	0.338249	
	120000-199999		0.77	32.6%	0.250698	
	200000+		0.8	4.5%	0.036115	

dwt = dead weight tonnage; TEU = twenty foot equivalent units

Note: For RSZs, a vessel's speed was assumed to be the zone's speed unless the vessel's cruising speed was lower. For example, a vessel with a cruising speed of 12 knots traveling through a waterway segment with a reduced speed of 14 knots was assumed to be operating at 12 knots.

The hours of operation were applied to the vessel's power, which was adjusted for typical engine operating loads to get kilowatt hours. In turn, the kilowatt hours were applied to the appropriate EPA emission factor based on the vessel engine's category to estimate criteria pollutant emissions.

**TABLE 5.6.1-d Vessel Power Attributes by Vessel Type**

Standard Type	Count	Avg Main hrs	Avg Aux kW	Avg Max Speed	Default Vessel Category
Bulk Carrier	3,177	8,990	1,935	14.3	3
Bulk Carrier, Laker	80	7,069	2,216	13.7	3
Buoy Tender	4	4,266		12.6	2
Container	1,218	39,284	7,851	23.2	3
Crude Oil Tanker	731	15,070	2,888	15.1	3
Drilling	7	15,806	12,840	11.7	2
Fishing	123	1,262	272	2.3	1
FPSO	2	18,123		11.5	3
General Cargo	1,020	6,130	1,619	14.6	3
Icebreaker	2	21,844		12.0	2
Jackup	4	1,643	270	3.5	1
LNG Tanker	44	29,607	8,129	19.2	3
LPG Tanker	151	8,557	3,021	15.8	3
Misc.	35	2,805	631	10.0	1
Passenger	168	45,760	4,477	20.4	3
Pipelaying	14	11,355	5,037	12.6	2
Reefer	182	8,930	3,328	18.9	3
Research	55	5,395	1,905	11.2	2
RORO	72	9,479	4,006	16.7	3
Supply	255	3,201	662	10.1	1
Support	73	6,590	2,305	9.7	2
Tanker	1,423	8,474	2,730	14.5	3
Tug	396	3,440	348	7.7	2
Vehicle Carrier	441	13,829	3,729	19.8	3
Well Stimulation	3	7,697	340	8.2	3

### *Activity*

- National activity data (kilowatt hours or kW) of CMV.
- Vessel characteristics data.
- The time spent, by ship type, in each of four operating modes defines as: normal cruise, slow cruise, maneuvering, and hostelling.
- The engine operating load factors.
- The engine power of each vessel types.

Note all activity data were adjusted for typical engine loads for the modes of operation (i.e., cruising, reduced speed zone (RSZ), maneuvering, and hoteling).

Vessel characteristics data were compiled and linked to the vessel types. The vessel characteristics included the following data:

- Vessel identification codes
- Vessel name
- Country of registry
- Call sign
- Vessel type
- Gross/net tonnage
- Vessel power
- Auxiliary engine power
- Piston stroke length/cylinder diameter (to calculate vessel category)
- Maximum vessel speed.

#### ***EPA's Emission Factors:***

Note: The hours of operation were applied to the vessel's power, which was adjusted for typical engine operating loads to get kilowatt hours. In turn, the kilowatt hours were applied to the appropriate EPA emission factor based on the vessel engine's category to estimate criteria pollutant emissions.

Below are defaulted emission rates per pollutant per engine per fuel per vessel type per mode of operation.

#### **Vessels equipped with Category 3 propulsion engines:**

As the dominant propulsion engine configuration for large Category 3 vessels is the slow speed diesel (SSD) engine, the following SSD emission factors were used for Category 3 propulsion engines. Medium speed diesel (MSD) emission factors were used for auxiliary engines associated with these larger vessels. For the 2014 inventory, it was assumed that Emission Control Area (ECA) compliant fuels were used while transiting U.S. waters. Emission factors for vessels equipped with Category 3 propulsion engines are presented in Table 4.6.5.

**TABLE 5.6.1-e Category 3 Emission Factors (g/kW-hrs)**

Type	Engine	Fuel	NOX	VOC	HC	CO	SO 2	CO 2	PM10	PM25
SSD	Main	1% Sulfur	14.7	0.6318	0.6	1.4	3.62	588.86	0.45	0.42
MSD	Aux	1% Sulfur	12.1	0.4212	0.4	1.1	3.91	636.6	0.47	0.43

From: U.S. EPA/OTAQ, Regulatory Impact Analysis: Control of Emissions of Air Pollution from Locomotive Engines and Marine Compression Ignition Engines Less than 30 Liters Per Cylinder, March 2008.

<sup>a</sup> Hydrocarbon (HC) was converted to VOC using a conversion factor of 1.053 as provided in the above reference

<sup>b</sup> PM<sub>2.5</sub> was assumed to be 97 percent of PM<sub>10</sub> using the above reference

#### **Vessels equipped with Category 1 or 2 propulsion engines and Tier types:**

**TABLE 5.6.1-f Tier Emission Factors for Vessels Equipped With Category 1 / Category 2 Propulsion Engines (g/kW-hrs)**

Tier	PM10	NO <sub>x</sub>	HC	CO	VOC	PM2.5 <sup>b</sup>	SO <sub>2</sub>	CO <sub>2</sub>
0	0.32	13.36	0.134	2.48	0.141102	0.3104	0.006	648.16
1	0.32	10.55	0.134	2.48	0.141102	0.3104	0.006	648.16
2	0.32	8.33	0.134	2.00	0.141102	0.3104	0.006	648.16
3	0.11	5.97	0.07	2.00	0.073710	0.1067	0.006	648.16

Engines and Marine Compression Ignition Engines Less than 30 Liters per Cylinder, March 2008.

<sup>a</sup> HC was converted to VOC using a conversion factor of 1.053 as provided in the above reference.

<sup>b</sup> PM<sub>2.5</sub> was assumed to be 97 percent of PM<sub>10</sub> using the above reference.

### Emissions Calculation

The general equation for estimating CMV emissions is:

$$\text{Emissions} = V_{pi} \text{ (kW)} \times LF \times \frac{D \text{ (NM)}}{V_s \text{ (NM/hr)}} \times \frac{EF \text{ (g)}}{\text{(kWh)}}$$

Where:

- $D_i$  = Distance along Segment, NM / C or RSZ Knots by vessel (i) and engine type (h)
- $V_{pi}$  = rated power of propulsion engine by vessel (i) and engine type (h)
- $LF_{ig}$  = Load factor (fraction less than 1) in mode g (cruise, slow cruise or maneuvering)
- $V_{sig}$  = 0.94 x maximum vessel speed = cruising speed or RSZ speed (i) and mode (g) (hours)
- $EF_{ih}$  = Emission factor in mode (i) and by engine type (h)

Note:  $D/V_s$  are used to estimate operating hours and 0.94 is Cruising Speed (knots), 94% of the max rated speed. Also, if vessel speed is unknown, typical speed by vessel type was used (nautical miles/hr or knots).

### Mode Equations Calculation:

#### RSZ Mode:

RSZ Criteria

- E&C RSZName <> "Cruising"
- EF Mode = "Cruising"
- EF Engine Type = "Main"
- IF (CruiseSpeed(94%Max)Revised < RSZ\_Speed\_kn, o then CruiseSpeed(94%Max)Revised otherwise RSZ\_Speed\_kn

RSZ Linkage

- ShipType
- CatLookup
- RSZ

RSZ Emission Equation

EM = SumofLength\_nm / IF(CruiseSpeed(94%Max)Revised < RSZ\_Speed\_kn, then CruiseSpeed(94%Max)Revised, otherwise RSZ\_Speed\_kn)\* MainkW \* EF-g/kW hr

#### **Maneuvering Mode:**

Maneuvering Criteria

- EF Mode = “Man”
- EF Engine Type = IF(Engine Type = “Main” ○ Then, kW-hrs = MainkW\* Maneuvering Time, Otherwise, kW-hrs = AuxkW\*Maneuvering Time (where Engine Type = “Aux”)

Maneuvering Linkage

- ShipType
- CatLookup
- Engine Type

Maneuvering Emission Equation

EM = If Engine Type = “Main”

- Then, MainkW-hrs\* EF-g/kW hr,
- Otherwise AuxkW-hrs \* EF-g/kW hr (where Engine Tytpe = “Aux”)

#### **Hoteling Mode:**

Hoteling Emission Equation

EM = AuxkW-hrs \* EF-g/kWw hr

#### **Crusing Mode:**

Cruising Emission Equation

EM = TRIP\_MILES/ Speed(knots)\* SUMorTRIPS\* Percent\* HORSEPOWER\* HP to kW conversion factor \* EF-g/kW hr.

#### **Adjustment for Controls**

Controls were applied when applicable to a particular source category.

#### **Spatial and Temporal Allocations**

##### *Spatial*

National level CMV information was broken down to shapeID# using spatial allocation documented and assigned by EPA.

##### *Temporal*

Data for temporal allocation was base on EPA’s annual emissions and were divided by 312 to estimate daily emissions.

## 6.0 ONROAD MOBILE SOURCES

### 6.0 INTRODUCTION

This document detailed the methodology, assumptions and results of work performed by MSCP, ARA of MDE to generate the 2014 ozone and the greenhouse gases (GHG) precursor emissions inventories for highway vehicles using the MOVES2014 modeling tools. As detailed in the following sections, the 2014 inventories of highway vehicles had been developed based on daily and annual Highway Performance Monitoring System (HPMS) inventories.

The official 2014 ozone and GHG precursor inventory of highway vehicles for the Baltimore Ozone Nonattainment Area, which comprises Baltimore City, and the counties of Anne Arundel, Baltimore, Carroll, Harford and Howard were the daily and annual HPMS-based inventories. The official 2014 ozone and GHG precursor inventory of highway vehicles for the Maryland portion of the Metropolitan Washington Council of Governments (MWCOC) Nonattainment Area, which comprises the counties of Calvert, Charles, Frederick, Montgomery and Prince George's, were also the daily and annual HPMS-based inventories.

The official 2014 ozone and GHG precursor inventories of highway vehicles for the Maryland portion of the Philadelphia, Pennsylvania Ozone Nonattainment Area, which comprises Cecil County, and the counties of Kent and Queen Anne's Nonattainment Area were also the daily and annual HPMS-based inventories.

The official 2014 ozone and GHG precursor inventory for the remaining portion of the State, which comprises the counties of Allegany, Caroline, Dorchester, Garrett, Saint Mary's, Somerset, Talbot, Washington, Wicomico and Worcester, were also the daily and annual HPMS-based inventories.

#### 6.0.1 Highway Vehicle Emissions Inventory

This inventory documented herein described specifically how United States Environmental Protection Agency's (USEPA's) MOVES2014 (MOVES) was used to estimate the 2014 annual criteria pollutants' and GHG's emissions as well as 2014 daily criteria pollutants from on-road vehicles and total energy consumption in the State. MOVES is the best tool used in developing these criteria pollutants and GHG emission estimates. Moreover, MOVES was used at the County scale to estimate the emissions of carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>) as these pollutants basically make up the GHG pollutants.

Emissions were estimated based on emission factors and vehicle activity. Consequently, emission factors for vehicles were based on vehicle type such as passenger cars, passenger trucks, vehicle age and the vehicle's operating modes. Operating modes for running, start, and idle emissions are included in MOVES. It should be noted that operating modes for running emissions were based on vehicle speed as well as whether the vehicle was accelerating, decelerating or cruising. In addition, the emission factors from all vehicles varied over the entire range of conditions these vehicles operate such as the ambient air temperature, speed, traffic conditions, road types, road topography, etc.



Furthermore, these generated emission factors were then multiplied by the appropriate VMT to estimate the criteria pollutants' and GHG's emissions and energy consumption. Moreover, the inventory must also account for non-exhaust or evaporative emissions. It is also important to look at the fleet, which is composed of several generations, types of vehicles and their emission control technologies, each of which performs differently.

In order to estimate both the rate at which emissions are being generated and to calculate VMT, MDE examined its road network and fleet to estimate vehicle activity. For the annual inventories, this was done for each of the twelve months in 2014 and aggregated for the entire year. The entire process was extremely complex and involved large amounts of various data sets.

Computer models were developed to perform these calculations by simulating the travel of vehicles on the State's roadway system.

These models then generated emission factors for different vehicle types for area-specific conditions and then combined them in summary form. The "area-specific conditions" included fleet characteristics such as vehicle population and vehicle age distribution, roadway and travel characteristics, meteorology, control programs in place, mandated fuel requirements, etc.

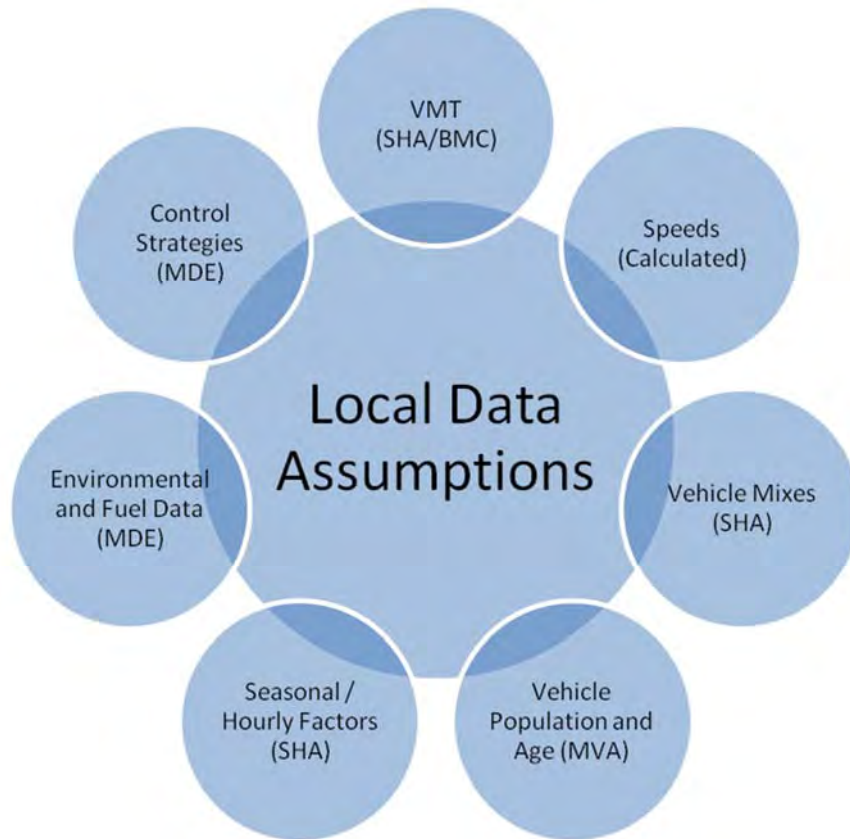
### **6.1.1 Periodic Inventory Methodology**

MSCP used USEPA's Guidance documents to develop the 2014 highway emissions inventory. These documents include inter-alia the following:

*Using MOVES for Estimating State and Local Inventories of On-Road Greenhouse Gas Emissions and Energy Consumption*, EPA-420-B-12-068, November 2012. *Motor Vehicle Emission Simulator, User Guide for MOVES2014*, EPA-420-B-14-055, July 2014

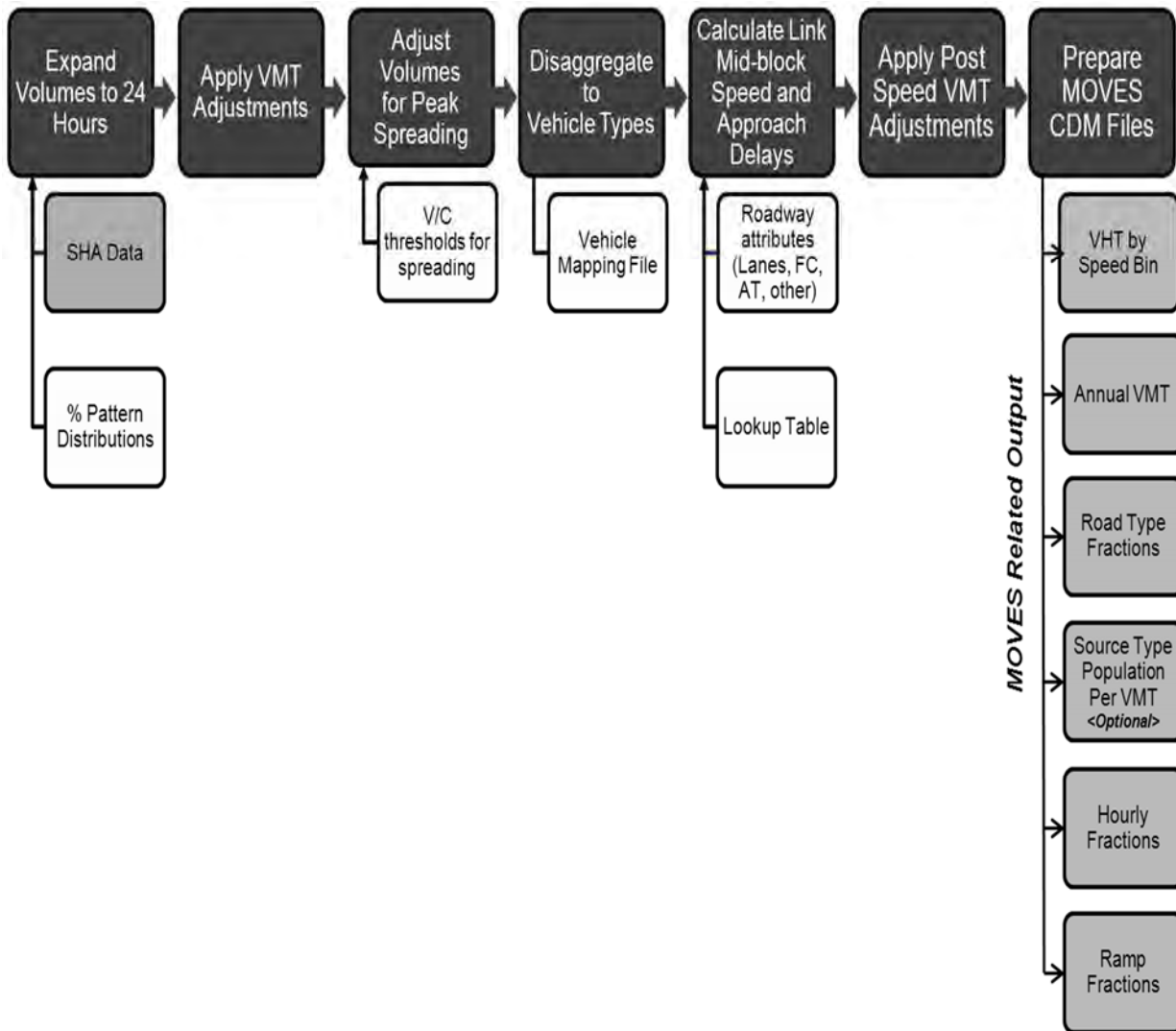
The methodologies used to produce the emission data conform to the recommendations provided in USEPA's Technical Guidance as well as in other documents enumerated above. A mix of local data and national default (internal to MOVES2014) data had been used for the inventory documented herein. As illustrated in Figure 6.1, local data had been used for the primary data items, which had a significant impact on emissions. Local data inputs to the inventory process reflected the latest available planning assumptions using data obtained from MDE, MVA, SHA, BMC, MWCOG and other local/national sources. This inventory document herein reflected the 2014 PEI for the Baltimore Ozone Non-Attainment Area and the rest of Maryland using USEPA's latest MOVES2014 emission model.

**Figure 6-1: Local Data Inputs Used for Emissions' Inventory**



PPSUITE is a post-processor modeling tool used for estimating speeds and processing emission rates. Section 6.7 describes in detail this modeling tool known as PPSUITE. Figure 6.2 summarizes the key functions of PPSUITE and the traffic-related input files prepared for MOVES.

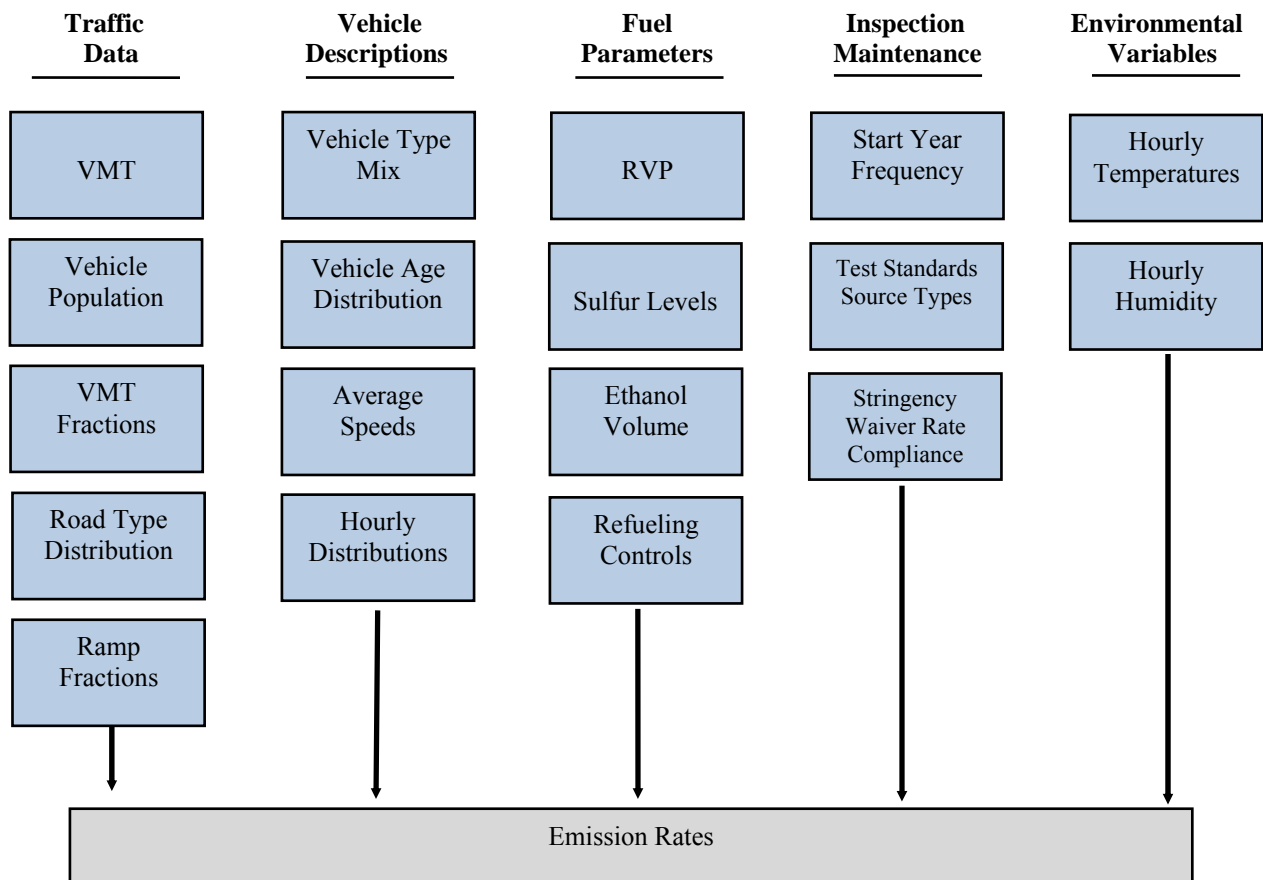
**Figure 6-2: Emission Calculation Process**



### 6.1.2 Data Sources

A large number of inputs to MOVES are needed to fully account for the numerous vehicle and environmental parameters that affect emissions levels. These include traffic flow characteristics, vehicle descriptions, fuel parameters, Inspection/Maintenance (I/M) Program parameters, and environmental variables as shown in Figure 6.3.

**Figure 6-3: Examples of Key MOVES Input Data**



MOVES2014 includes a default national database of meteorology, vehicle fleet, vehicle activity, fuel, and emission control program data for every county, but EPA cannot certify that the default data is the most current or best available information for any specific area. As a result of this, EPA recommended the use of local data for inventory's preparation and SIPs analyses. These data items are discussed in the following sections.

## 6.2 DESCRIPTION OF INPUT DATA

---

This section described the data inputs to the emission calculation process. 15 or 14 MOVES data files were required for input to MOVES Graphical User Interface (GUI) through the MOVES' County Data Manager (CDM). These data files were either created by the staff of MSCP or generated by PPSUITE software. These data files were:

- Roadway Data and VMT
- Month VMT Fractions
- Day VMT Fractions
- Hour VMT Fractions
- Average Speed Distribution
- Road Type Distribution
- Ramp Fraction
- Source Types Population
- Source Types Age Distribution
- Fuel Formulation
- Fuel Supply
- Fuel Usage Fraction
- I/M Programs
- Meteorology Data
- Alternate Vehicle Fuel Technology (AVFT)

### 6.2.1 Roadway Data and VMT

The roadway data input to emissions calculations for this inventory was based on information from the “universal” highway database maintained by the Maryland’s State Highway Administration (SHA). SHA obtained this information from periodic visual and electronic traffic counts. The SHA’s data is dynamic, since it is continually reviewed and updated from new traffic counts. Information on roadways included in the National Highway System (NHS) is reviewed at least annually, while information on other roadways is reviewed at least biennially. On a triennial basis, a current “snapshot” of the SHA's database was taken and downloaded to provide an up-to-date record of the State’s highway system for estimating emissions. This emissions inventory was based on 2014 data, which is the most current “snapshot” of the SHA’s data.

The following information was extracted from the database for emission calculations:

- Lanes and distances
- volumes representing Average Annual Daily Traffic (AADT)
- truck percentages and urban/rural classifications
- functional class codes

The PPSUITE software used the traffic data to prepare key inputs to the MOVES emission model. This software used roadway segment distances and traffic volumes to prepare estimates of VMT that is the primary traffic input that affects emission results. Before the SHA’s data could be used by PPSUITE for speed and emission calculations, several adjustments and additions should be made to the roadway data.

The lane values, area type, and functional class were important inputs for determining the congestion and speeds for individual highway segments. Truck percentages were used in the speed determination process and were used to split volumes to individual vehicle types used by the MOVES2014 software.

Maryland classifies its road segments by function, as well as whether it is located in an urban or rural area, as indicated below in Figure 6.4. The urban/rural (UR) and functional classes (FC) are important indicators of the type and function of each roadway segment. These values were also used to determine the MOVES Road Type classification, which had an important impact on the emission factors for each roadway segment. Equivalencies between the SHA's and MOVES' indices were discussed in later sections.

**Figure 6-4: MDOT Urban/Rural and Functional Class Codes**

Urban/Rural Code	1=Rural 2=Small Urban 3=Urban	
Functional Class	Rural Functional Classes Used For Rural Areas	Urban Functional Classes Used For Urban Areas
	-----	-----
	1=Rural Freeway	11=Urban Freeway
	2=Rural Other Principal Arterial	12=Urban Expressway
	6=Rural Minor Arterial	14=Urban Principal Arterial
	7=Rural Major Collector	16=Urban Minor Arterial
	8=Rural Minor Collector	17=Urban Collector
	9=Rural Local	19=Urban Local

The PPSUITE processing software uses other additional variables other than those available in the SHA's database. Using these variables improves the calculation of congested speeds. Such variables include information regarding free-flow speeds and capacities and other physical roadway features (e.g. traffic signals) that could affect a roadway's calculated congested speed.

This data could be determined from lookup tables based on a roadway segment's urban/rural code and functional class. Much of the lookup table data was developed from information contained in the Highway Capacity Manual (HCM).

## 6.2.2 Other Supporting Traffic Data

Other traffic data were used to adjust and disaggregate traffic volumes. Key sources used in these processes include the following:

### 6.2.3 HPMS VMT Adjustments

According to EPA's guidance, baseline inventory VMT computed from the SHA's highway segment volumes must be adjusted to be consistent with HPMS VMT totals. Although it has some limitations, the HPMS system is currently in use in all 50 states and is being improved under Federal Highway Administration's (FHWA's) direction. These adjustments were obtained by dividing the HPMS VMT by the analysis run's VMT for each county functional class grouping. These calculated VMT adjustment factors were provided as ASCII input files to PPSUITE, and were applied to each of the roadway segment volumes.

These factors could be applied to any future year runs. The VMT added or subtracted to the SHA's database assumed the speeds calculated using the original volumes for each roadway segment for each hour of the day.

### 6.2.4 Seasonal Adjustments

The seasonal factors were used to adjust the average annual day traffic (AADT) to represent an average July weekday, an average January weekday, or an average day of any month. Both the seasonal and monthly VMT adjustment factors were developed from the traffic flow data available by day and month from Automatic Traffic Recording (ATR) Station Reports in the Traffic Trends System Report Module, which was obtained from the SHA's website. The report entitled, *Traffic Flow by Day by Month by Group* was used to obtain the monthly variation of traffic flow.

The 4 functional classes for which the seasonal factors were available are: Rural Interstate, Rural other, Urban Interstate and Urban other. This report also contained the AADT's percentage, which was available for the 7 days of the week as well as for the 12 months of the year. An average summer seasonal factor was obtained from the average July weekdays' calculations. In addition, an average winter seasonal factor was obtained from the average January weekdays' calculations. These seasonal factors' calculations were repeated for all the 4 functional classes.

### 6.2.5 Hourly Patterns

Speeds and emissions vary considerably depending on the time of day as a result of temperature variations and congestion. Therefore, it is important to estimate the pattern by which roadway volume varies by hour of the day. Pattern data is in the form of a percentage of the daily volumes for each hour. In addition, the hourly pattern distributions were a key input file to PPSUITE for hourly congested speeds' estimation. Hourly mixes of vehicles for each area and facility type combination were also input to PPSUITE. These hourly mixes were used to determine the proportion of the daily volume in each hour of the day, so separate hourly speeds could be prepared as input to PPSUITE process.

Consequently, hourly pattern data was obtained from a report entitled, *Traffic Trends System Report Module* from the SHA's website. However, the hourly distribution data could be obtained from the report entitled, *Hour Percent of Traffic by Month-Weekday*. The factors for

the 4 functional classes (Rural Interstate, Rural other, Urban Interstate and Urban other) could also be obtained from the aforementioned report. Furthermore, the hourly pattern data for the 4 primary functional classes were used to create the PPSUITE input files that were needed in the emission calculation process. For instance, to obtain an hourly percentage of vehicles for a summer weekday, an average hourly factor was calculated for the months of June, July and August.

#### 6.2.6 Vehicle Mix Inputs

The vehicle distribution file was a key input file that could have a significant impact on emissions. Moreover, the vehicle mixes were input to PPSUITE as hourly distributions of vehicles by vehicle type. These mixes were developed by using the 2014 data, which were available from the SHA's website.

#### 6.2.7 Vehicle Type Processing

Emission rates within MOVES vary significantly by the type of vehicle. The MOVES2014 model produces emissions and rates by thirteen MOVES source types. However, VMT is input to MOVES by 5 HPMS vehicle groups. Figure 6.5 below summarizes the distinction between each classification scheme.

**Figure 6-5: MOVES Source Types and HPMS Vehicle Groups**

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<u>SOURCE TYPES</u>		<u>HPMS Class Groups</u>	
11	Motorcycle	10	Motorcycle
21	Passenger Car	25	Light Duty Vehicles
31	Passenger Truck	40	Buses
32	Light Commercial Truck	50	Single Unit Trucks
41	Intercity Bus	60	Combination Trucks
42	Transit Bus		
43	School bus		
51	Refuse Truck		
52	Single Unit Short-haul Truck		
53	Single Unit Long-haul Truck		
54	Motor Home		
61	Combination Short-haul Truck		
62	Combination Long-haul Truck		

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The PPSUITE process included a method to disaggregate the SHA's traffic volumes to the MOVES2014 thirteen source types and then recombined the estimates to the 5 HPMS vehicle classes. This was done to support the alternative MOVES2014 "rate-based" application method, which could also be handled by the PPSUITE's software. Under the "rate-based" application method, VMT should be estimated for each of the MOVES2014 thirteen source types. PPSUITE used the vehicle type pattern data to divide the hourly roadway segment volumes to the MOVES2014 thirteen source types. This data contained the percentage splits to each source type for every hour of the day, which was similar to the 24-hour pattern data.



### **6.2.8 VMT Fractions**

Month, day and hour VMT fractions were required as inputs to MOVES. Month and day VMT fractions were calculated based on seasonal adjustment factors. It should be noted that the month VMT fractions were used to disaggregate the annual VMT into monthly VMT, while day VMT fractions were used to disaggregate monthly VMT to daily weekdays or weekends VMT. PPSUITE was used to calculate hour VMT fractions, which were based on hourly pattern inputs. These hourly VMT fractions were inputs to MOVES and were responsible to distribute the daily VMT into 24-hourly pattern.

### **6.2.9 Month VMT Fractions**

These are the fractions of annual VMT per source type occurring per month. These fractions must sum to 1 within each source type over a 12-month period. In addition, these fractions were used in MOVES input to disaggregate annual VMT to monthly VMT as stated in the previous section.

### **6.2.10 Day VMT Fractions**

These fractions are the fractions of annual VMT per source type, which occur on either the weekday or weekend. These fractions were also used in MOVES input to disaggregate the monthly VMT to daily VMT per weekdays and weekends as stated in the previous section. These fractions must sum to 1 within each source type, month and road type.

### **6.2.11 Hour VMT Fractions**

These fractions are the fractions of annual VMT per source type, which occur per hour. These fractions were used in MOVES input to distribute the daily VMT by weekdays and weekends into a 24-hourly pattern. These fractions must sum to 1 within each source type, road type and type of day combination. These fractions were applied to all months.

### **6.2.12 Average Speed Distribution**

Emissions for many pollutants such as VOC and NO<sub>x</sub> vary significantly with travel speed. Generally, VOC's emissions decrease as speed increases, while NO<sub>x</sub> emissions decrease at low speed and increase at higher speeds. The emission process uses the PPSUITE set of programs to obtain the best estimate of vehicle speeds. These PPSUITE sets' primary function was to organize and simplify the handling of large amounts of data, which were needed for the calculations of speeds and preparation of MOVES input files. Furthermore, the PPSUITE's software prepares the MOVES vehicle hours of travel (VHT) by speed bin and summarizes the distribution of speeds across all links into each of 16 MOVES speed bins for each hour of the day.

### 6.2.13 Road Type Distribution

Typical drive cycles and associated operating conditions vary by the type of roadway in MOVES. MOVES define the following road types:

1. Off-Network,
2. Rural Restricted Access,
3. Rural Unrestricted Access,
4. Urban Restricted Access, and
5. Urban Unrestricted Access.

The off-network road type includes emissions from vehicle starts, extended idle activity and evaporative emissions. Off-network activity is primarily determined by the source type population input. The remaining distribution among road types is determined by associating the Maryland Department of Transportation's (MDOT's) functional class with each MOVES road type:

- MOVES Road Type (2) = MDOT Functional Class (1),
- MOVES Road Type (3) = MDOT functional Class (2, 6, 7, 8, 9),
- MOVES Road Type (4) = MDOT Functional Class (11, 12), and
- MOVES Road Type (5) = MDOT Functional Class (14, 16, 17, 19).

### 6.2.14 Ramp Fractions

Since ramps are not directly represented within the SHA's database, it is assumed that 8% of the Freeway VHT is Ramp's VHT. This assumption is consistent with the recommendations given in EPA's Technical Guidance. This ramp fractions file was also input to MOVES. The vehicle type percentages are also provided to the capacity analysis section of PPSUITE to adjust the speeds in response to trucks. That is, a given number of larger trucks take up more roadway space than a given number of cars, and this is accounted for in the speed estimation process by adjusting capacity using information from the Highway Capacity Manual.

### 6.2.15 Source Type Age Distribution

Age distribution could be described as mix of vehicles of different ages. MOVES covers a 31-year range of vehicle ages, while vehicles 30 years and older were grouped together. In MOVES, user could specify the fraction of vehicles in each of the 30 vehicle ages for each 13 source types. It is also known that the age distribution of vehicle fleets could vary extensively

from area to area and could affect emissions. As a result of older vehicles to have been driven more miles and experiencing more deterioration in their emission control systems, such vehicles tend to have higher emissions. Therefore, fleets with a higher percentage of older vehicles would have higher emissions. In addition, a higher percentage of older vehicles in the fleet indicate that these vehicles would not be able to meet newer and more stringent emission standards or CAFE standards.

It should be noted that if the user wants to apply rates to multiple counties, the user should use a single age distribution that is appropriate for all those counties. However, if the multiple counties that need to be modeled have different age distributions, it is advisable that the user should model each county separately.

MSCP was able to develop the 2014 source type age distribution from the MVA's motor vehicle registration database. MSCP obtained this MVA's registration database, which was then VIN-decoded, thereby, making it possible to obtain the 13 MOVES source types by model year. However, same age distribution was used for source types 31 and 32 because of the difficulty to split the data into source types 31 and 32. The same age distribution was also used for refuse trucks, single unit short-/long-haul trucks. Furthermore, the same age distribution was also used for combination short-/long-haul trucks. However, for source types 52, 53, 61 and 62, the default age distribution was superimposed on the local age distribution that was obtained from the MVA's processed data.

#### **6.2.16 Source Type Population**

MOVES uses source types' population to calculate evaporative, start and hotelling emissions. It should be noted that start and hotelling emissions depend on how many vehicles are parked and started than on how many miles of these vehicles are driven. As a result of this, source types' population played a significant role in calculating the aforementioned emissions. If in the absence of any other source of population data, users could still base population estimates on the VMT estimates for a particular source type. This VMT estimates was based on running MOVES at the national scale for a county of interest, but including VMT and population in the output.

Then, the local VMT would be multiplied by the ratio of default population to default VMT by source type to produce an estimate of the local population. This option was used to obtain the source type population for source types 52, 53, 61 and 62.

### **6.3 METEOROLOGY**

In MOVES, ambient temperature and relative humidity data are essential inputs for estimating the on-road criteria and GHG pollutants' emissions. The temperature and relative humidity are significant factors in modeling emissions from motor vehicles as they affect air conditioner use. MOVES need a 24-hour temperature and humidity profile in order to model a full day of emissions based on every hour of the day. It should be noted that the temperature has to be in degrees Fahrenheit, while the relative humidity must be in percentage.

Moreover, EPA urges users to use the average daily temperature and relative humidity profile for each month in case modeling is to be performed for all the 12 months. Latest available information on temperature and relative humidity should also be used for criteria and GHG pollutants emissions' estimates.

MSCP obtained the 2014 local weather data from Air Monitoring Program from all the airports in Maryland. These weather data were then processed to produce the 24-hourly data for each month. For instance, the Thurgood Marshall-Baltimore Washington (BWI) airport data was used for the Baltimore area, which comprises the Baltimore City and the counties of Anne Arundel, Baltimore, Carroll, Harford and Howard. MSCP also used the same procedure to process the weather data for the remaining counties in Maryland. Based on the airport mapping that MSCP developed, the appropriate airport data were allocated to these counties.

### **6.4 I/M PROGRAM**

In Maryland, I/M Program, also known as Vehicle Emissions Inspection Program (VEIP), tests model year 1977 and newer gasoline powered vehicles weighing up to 26,000 pounds. This test is done biennially, or on a change of ownership. There is a two year grace period for new vehicles. However, model year 1996 and newer light-duty vehicles, and model year 2014 and newer vehicles weighing up to 14,000 pounds get the onboard diagnostics' (OBD's) test. All other vehicles get an idle test with a gas cap pressure test and a visual check for the presence of a catalytic converter.

The fields in a typical I/M program are polProcessID, stateID, countyID, yearID, sourceTypeID, fuelTypeID, IMProgramID, inspectFreq, testStandardsID, begModelYearID, endModelYearID, useIMyn and complianceFactor. The field useIMyn allows the user to turn off ("N") or on ("Y").

#### **6.4.1 Pollutant Process ID**

MOVES estimate emission reductions from VEIP for CO, hydrocarbons and NO<sub>x</sub>. For exhaust emissions, I/M programs affect both running and start emissions. In addition, for evaporative emissions, I/M programs affect hydrocarbon emissions from fuel vapor venting and fuel leaks.

#### **6.4.2 Source Type and Fuel Type IDs**

These fields are used to describe the source (vehicle) and fuel types included in I/M program. The staff of the VEIP Division in MSCP when preparing I/M file, made sure that the source and fuel types match I/M programs' parameters for the source types included in the VEIP. It should be noted that MOVES currently calculates I/M program's benefits only for gasoline source types or vehicles.

Furthermore, I/M programs have historically applied to vehicles by regulatory weight class; however, MOVES applies I/M program's benefits by source type. This idea could lead to discrepancies between the number of vehicles covered in the actual I/M program and the number of vehicles that MOVES assumes is covered. For instance, I/M program, which targets trucks less than 8,501 pounds Gross Vehicle Weight Rating (GVWR) such as regulatory classes LDT1, LDT2, LDT3 and LDT4 would include parts of two MOVES source types 31 (passenger trucks) and 32 (light commercial trucks).

Moreover, these source types enumerated in this section also include vehicles with GVWR greater than 8,501 pounds. Whenever I/M program is applied to source types 31 and 32 in MOVES, the benefits of I/M program would be applied to all the vehicles in these source types. Hence, there is a need to adjust the compliance factor to account for the fraction of vehicles within a source type that is actually covered by I/M program.

#### **6.4.3 Inspection Frequency**

MOVES allow users to enter either annual or biennial test frequency. In accordance with Maryland's VEIP design, the MSCP utilized the input indicative of a biennial test frequency for all the inventory work that is documented herein.

#### **6.4.4 Test Standards and I/M Program ID**

There are 13 exhaust and 7 evaporative emissions tests that MOVES allows users to choose from. In Maryland, MSCP chose for its VEIP four test standards, which are identified by I/M program IDs. The test standards are:

- 11 – This is an Unloaded Idle Test, which is a test performed while vehicle idles in park or neutral.
- 41 – This is an Evaporative Gas Cap Check, which is a test conducted by pressurizing the gas cap so as to identify any leaks in the gas cap.
- 43 – This is an Evaporative System OBD check, which is the test of the evaporative emission related systems and components performed by visual check of the Malfunction Indicator Light (MIL) as well as scan of the OBD computer.
- 51 – This is an Exhaust OBD Check, which is the test of exhaust-related systems and components performed by visual check of MIL and scan of OBD computer for system

readiness, MIL status, and troubled codes are then stored. This test covers 1996 and newer OBD-equipped vehicles only.

It should be noted that in MOVES, I/M programs that have both exhaust and evaporative inspection components including OBD programs should be modeled as 2 separate and simultaneous programs. In addition, I/M Program ID numbers are used to identify these programs. MSCP followed this guideline in its VEIP's setup.

#### **6.4.5 Beginning and End Model Years**

In I/M Program, MOVES uses these two columns to specify the beginning and ending model years of vehicles covered. In Maryland, there is a grace period of 2 years before new vehicles are tested. The ending model year depends on the year of evaluation and the grace period for vehicles as enumerated above. However, the beginning model year is 1977 for 3 of the 4 test standards, except OBD test that has the beginning model year as 1996.

#### **6.4.6 Compliance Factor**

MOVES uses the compliance factor input to account for I/M program compliance rates, waiver rates, and the adjustments needed to account for the fraction of vehicles within a source type that are covered by the I/M program. These adjustments would be referred to as 'regulatory class coverage adjustment'. The compliance factor ranges from 0 to 100, and the number that would be entered in this column depends on the calculation based on the compliance rate, waiver rate and the regulatory class coverage adjustment as illustrated below:

**Compliance Factor** = (percent compliance rate) \* (100-percent waiver rate)\* percent regulatory class coverage adjustment.

Furthermore, the compliance factor represents the percentage of vehicles within a source type that actually receive I/M program's benefits. In addition, the compliance factor could also be looked at as reflecting the observed fail and waiver rates in the program, combined with an assumed 96% compliance rate for vehicles showing up for testing. Heavy-duty vehicles have an additional factor, reflecting the fraction of vehicles in the weight range covered by the program.

#### **6.4.7 Compliance Rate**

The compliance rate is the percentage of vehicles in the fleet that are covered by I/M program, and which either receive a certificate of compliance or a waiver after taking the test. Moreover, the higher compliance rate for the gas cap check reflects the much higher retest pass rate for this check.

#### 6.4.8 Waiver Rate

The waiver rate is the percentage of vehicles that fail an initial I/M test, as well as retest, but they receive a certificate of compliance. It could also be calculated as follows:

$$\text{Waiver rate} = \frac{(\text{No. of vehicles that fail an initial test and do not pass retest})}{(\text{No. of vehicles that fail an initial IM test})}$$

#### 6.4.9 Regulatory Class Coverage Adjustment

In MOVES, I/M programs are applied to source types. The association of source types and I/M program could be inconsistent with state I/M program regulations that define I/M program by the vehicle weight classes. It should be noted that MOVES source types comprise several vehicle-weight classes, applying I/M's benefits to the entire MOVES' source types could be inappropriate. Table A.1 on page 61 of EPA's document entitled, *MOVES2014 Technical Guidance: Using MOVES to Prepare Emission Inventories for State Implementation Plans and Transportation Conformity* could be used to develop adjustments to the compliance factor to account for this discrepancy.

These adjustments are percentages of VMT by the various regulatory weight classes within a source type. After reviewing the table, users should sum the adjustments for weight classes within the source types, which are covered by I/M program. The sum of these adjustments provide users with a multiplicative factor that could be applied along with compliance and waiver rates as already discussed in Section 6.4.6.

### 6.5 FUELS

The four tables represented under fuel are Fuel Formulation, Fuel Supply, Fuel Usage Fraction and Alternative Vehicle Fuels and Technology (AVFT). These tables interact by defining the fuels used in the area being modeled. In MOVES2014, the tables are accessed through a single tab in the County Data Manager (CDM). The Fuel Usage Fraction is the only new table that was not available in the previous MOVES versions. MOVES defaults for these tables are available and could be accessed using the Export Default Data button in the Fuel Tab of the CDM.

The MSCP developed the Fuel Formulation and Fuel Supply Tables, while it used the appropriate default Fuel Usage Fraction for the criteria and GHGs pollutants emissions' estimates because no local data were available. MSCP also used the modified AVFT file that EPA developed as part of the input file for MOVES. Moreover, the Fuel Supply Table identified the fuel formulations used in a region as well as its particular market share, while the Fuel Formulation Table itself defined the fuel properties such as RVP, sulfur level, ethanol volume, aromatic and olefin contents, etc. On the other hand, the Fuel Usage Fraction Table defined the frequency at which E-85 capable vehicles also known as flex fuel vehicles use E-85 vs.

conventional gasoline. The AVFT Table was used to enumerate the fraction of fuel types capable of being used by model year and source types.

Furthermore, when modeling an area, fuels should correspond to the temperature profile for a given month. For example, a wintertime diurnal temperature profile using the MonthID = 7 should not use July fuels, but rather such wintertime diurnal temperature profile to be used should be January fuels. If in a run, the user does not choose output that does not distinguish rates by fuel type, the mix of gasoline/diesel/CNG would be determined by the default AVFT (i.e. the fuel type and technology allocations). However, if in a run the user selects output that is distinguished by fuel type, the AVFT values would not be applied, instead an appropriate mix of activity by fuel type would be applied during post-processing.

### 6.5.1 Regional Fuels

The main goal in the development of the regional fuels approach was to aggregate fuels into larger and more representative areas. By this methodology, eleven general fuel regions were created for the United States and major territories. These fuel regions were initially based on existing Petroleum Administration for Defense Districts' (PADDs') boundaries. These PADDs' boundaries were based on historic division of fuel supply areas, which were originally developed in the 1950s, and were then adjusted to account for broad fuel distribution corridors and the presence of bulk fuel pipelines and terminals. These PADDs are the geographic aggregations of the 50 states and the District of Columbia, which were divided into five districts as follows:

- a). PADD1- East Coast.
- b). PADD2 – Midwest.
- c). PADD3 – Gulf Coast.
- d). PADD4 – Rocky Mountain.
- e). PADD5 – West Coast.

The MOVES2014 regional fuel areas are defined by the region County table in the MOVES default database. Table 6-1 below illustrates the MOVES2014 Fuel Regions, while Table 6-2 identifies the regionID in MOVES2014.



**TABLE 6.5.1-a MOVES2014 Fuel Regions**

Region ID#	Region Name	Description
1	East Coast	East coast states up to Appalachians, Florida, and gulf coast region
2	Midwest	Midwest states up to Appalachians (not including Wisconsin), Tennessee, Kentucky
3	South	Southern states not including gulf coast, Nebraska, Iowa
4	North	North and South Dakota, Minnesota, Wisconsin
5	Rocky Mtns	Pacific northwest, Rocky mountain states, Utah
6	CA/NV/AR	California, Nevada, Arizona, AK, and HI NOT using Reformulated Gasoline (RFG)
11	East Coast RFG	East coast states and regions using RFG fuel or under a controlled fuel program
12	MD/VA	Maryland and Virginia regions using RFG fuel or under a controlled fuel program
13	Texas RFG	Texas regions using RFG fuel or under a controlled fuel program
14	Midwest RFG	Midwest regions using RFG fuel or under a controlled fuel program
15	California	California using California fuel, Nevada and Arizona regions using California Fuel

**TABLE 6.5.1-b RegionID in MOVES2014**

RegionID	AA, Base Region ID#	Base Region Name	BB, Maximum summer RVP (psi) or 00 for ASTM	CC, E10 RVP Waiver (00=1 psi waiver, 01=no waiver)	DD, Minimum ethanol volume, %	XX (Reserved for future use)
0	1	East Coast	0.0	0	0	0
100000000			0.0	0	0	0
100010000			0.0	1	0	0
170000000			7.0	0	0	0
178000000			7.8	0	0	0
178010000			7.8	1	0	0
200000000	2	Midwest	0.0	0	0	0
270000000			7.0	0	0	0
278000000			7.8	0	0	0
278010000			7.8	1	0	0
300000000	3	South	0.0	0	0	0
370000000			7.0	0	0	0
370010000			7.0	1	0	0
400000000	4	North	0.0	0	0	0
500000000	5	Rocky Mtns	0.0	0	0	0
578000000			7.8	0	0	0
600000000	6	CA/NV/AR/All Others	0.0	0	0	0
678000000			7.8	0	0	0
1170011000	11	East Coast RFG	7.0	1	10	0
1270011000	12	MD/VA RFG	7.0	1	10	0
1370011000	13	Texas RFG	7.0	1	10	0
1470011000	14	Midwest RFG	7.0	1	10	0
1570011000	15	California	7.0	1	10	0

### 6.5.2 Fuel Supply

The Fuel Supply Table classifies the fuel formulation that is used in an area, and each formulation's respective market share. Once the fuel formulation for the area being modeled had been modified, the Fuel Supply Table could be populated. The populated table is indicated in Table 6-3, and due to its large size, only a portion of the entire table could be shown.

**TABLE 6.5.2-a Fuel Supply**

<b>fuelRegionID</b>	<b>fuelYearID</b>	<b>monthGroupID</b>	<b>fuelFormulationID</b>	<b>marketShare</b>	<b>marketShareCV</b>
1270011000	2014	1	1401	1	0
1270011000	2014	2	1402	1	0
1270011000	2014	3	1403	1	0
1270011000	2014	4	1404	1	0
1270011000	2014	5	1405	1	0
1270011000	2014	6	1406	1	0
1270011000	2014	7	1407	1	0
1270011000	2014	8	1408	1	0
1270011000	2014	9	1409	1	0
1270011000	2014	10	1410	1	0
1270011000	2014	11	1411	1	0
1270011000	2014	12	1412	1	0
1270011000	2014	1	21501	1	0
1270011000	2014	2	21502	1	0
1270011000	2014	3	21503	1	0
1270011000	2014	4	21504	1	0
1270011000	2014	5	21505	1	0
1270011000	2014	6	21506	1	0
1270011000	2014	7	21507	1	0
1270011000	2014	8	21508	1	0
1270011000	2014	9	21509	1	0
1270011000	2014	10	21510	1	0
1270011000	2014	11	21511	1	0
1270011000	2014	12	21512	1	0
1270011000	2014	1	190	1	0
1270011000	2014	2	190	1	0
1270011000	2014	3	190	1	0
1270011000	2014	4	190	1	0
1270011000	2014	5	190	1	0
1270011000	2014	6	190	1	0
1270011000	2014	7	190	1	0
1270011000	2014	8	190	1	0
1270011000	2014	9	190	1	0
1270011000	2014	10	190	1	0
1270011000	2014	11	190	1	0
1270011000	2014	12	190	1	0

The Fuel Supply Table as shown in Table 6-3 has six fields which are the fuelregionID, the fueleyearID, the monthgroupID, the fuelformulationID, the marketShare and the marketShareCV. These fields are briefly described as follows:

The fuelregionID field was created based on the new analysis of nationwide fuel use, which prompted a change in how fuels are defined at the county level in the default database. Consequently, the default fuel supply is divided into fuel regions instead of each county having a unique fuel supply. The noticeable impact of this change could be seen in the fuel supply table where the column for countyID has been replaced with the RegionID. MSCP had utilized the RegionIDs 1 and 12 for the inventory of the criteria pollutants and GHGs as contained in this document.

The monthgroupID field is the same as the monthID; for the monthgroupID field was built in to permit the possibility of seasonal fuels, but that option is not functional at present.

The fuelformulationID field identifies the fuel used in the area and this is the number that is entered in the fuel supply table.

The Marketshare field represents the fraction of the volume of each fuel's formulation that is consumed in the area. It is significant that the Marketshare should sum to one within each fuel type.

The MarketshareCV field represents the coefficient of variation for the market share. This field could be used when uncertainty calculations were enabled. In Maryland, the value is not required and a zero was entered.

### **6.5.3 Fuel Formulation**

The Fuel Formulation Table describes the elements such as RVP, sulfur level, ethanol volume, etc. of each fuel. The MSCP prepared the elements of the 2014 Fuel Formulation Table from the Monthly Retail data obtained from the Fuel Tax Division of the Comptroller's Office. A database each was created to enter the values of the gasoline and diesel fuels from these monthly retail data for all the 12 months of 2014. After this, an access program was written to process the average monthly values for all the elements of the gasoline and diesel fuels. For instance, the gasoline fuel is in 3 grades (regular, mid-grade and premium). The weighted average of the gasoline fuel grade was calculated by using EPA's methodology. The diesel fuel is in one grade and access program was also used to calculate the monthly average for all the 12 months of 2014.

These average values represented the elements of the gasoline and diesel in the Fuel Formulation Table. The default values were used for CNG, E-85 and electricity. As a result of the large size of the formulation table, a portion of the fuel formulation table is shown in Table 6-4 of this documentation.

The key fields in the fuel formulation table as shown in Table 6-4 were briefly described as follows:

**Fuel Formulation ID:** This field identifies the fuel used in the area and this is the number that is entered in the fuel supply table. In MOVES2014, the existing fuel formulation ID could be modified or a new formulation ID could also be created.

**Fuel Subtype ID:** This number provided a small level of detail about the type of fuel the formulation was describing, but in some cases, there could be more than one fuel subtype that also described the fuel formulation. For instance, the fuel reformulation could be gasoline blended with 10% ethanol or the one blended with MTBE that was earlier used in the gasoline mixture. Hence, a different fuel subtype ID is assigned to this different gasoline mixture.

**RVP** means 'Reid Vapor Pressure', which was measured in pounds per square inch (psi). This field was used to define the volatility of gasoline.

**Sulfur Level:** The sulfur level was measured in parts per million (ppmw) in terms of weight. Sulfur levels should be entered for all gasoline and diesel fuels. It should be noted that the Tier2 gasoline sulfur rule established a national average of 30 ppmw sulfur and a cap of 80 ppmw. As for diesel fuel, the ultra-low sulfur rule requires that at least 80% of the highway diesel fuel sold should meet the 15 ppm, while the remaining 20% should meet the Low Sulfur Diesel Standard of 500 ppm.

**Ethanol Volume:** This field represents the percent by volume of ethanol in the gasoline/ethanol mixture.

**MTBE Volume:** This field represents the percent by volume of methyl tertiary butyl ether (MTBE) in the gasoline/MTBE mixture. The gasoline that is being supplied to Maryland does not contain any significant amount of MTBE because of the MTBE concentrations, which were found in water in some areas. So a zero value was entered in the MTBE Volume column.

**ETBE Volume:** This field represents the percent by volume of ethyl tertiary butyl ether (ETBE) in the gasoline/ETBE mixture. A value of zero was entered in the ETBE Volume column because there was no trace of ETBE concentrations in the gasoline that is being supplied to Maryland.

**TAME Volume:** This field represents the percent by volume of tertiary amyl methyl ether (TAME) in the gasoline/TAME mixture. A value of zero was entered in the TAME Volume column because there was no trace of TAME concentrations in the gasoline that is being supplied to Maryland.

**Aromatic Content:** This field represents the percent by volume of aromatic hydrocarbon compounds in gasoline. A value of zero was entered for diesel fuel, CNG, E-85 and electricity.

**Olefin Content:** This field represents the percent by volume of olefin hydrocarbon compounds in gasoline. A value of zero was entered for diesel fuel, CNG, E-85 and electricity.

Benzene Content: This field represents the percent by volume of benzene in gasoline. A value of zero was entered for diesel fuel, CNG, E-85 and electricity.

E200: This field represents the percent of gasoline that had evaporated at 200 degrees Fahrenheit. A value of zero was entered for diesel fuel, CNG, E-85 and electricity.

E300: This field represents the percent of gasoline that had evaporated at 300 degrees Fahrenheit. A value of zero was entered for diesel fuel, CNG, E-85 and electricity.

T50: This field represents the temperature at which 50 percent of the gasoline had evaporated. A value of zero was entered for diesel fuel, CNG, E-85 and electricity.

T90: This field represents the temperature at which 90 percent of the gasoline had evaporated. A value of zero was entered for diesel fuel, CNG, E-85 and electricity.

As a result of the large size of the formulation table, a portion of the fuel formulation table is illustrated in Table 6-4 of this documentation.

**TABLE 6.5.3-a Fuel Formulation**

fuelFormulationID	fuelSubtypeID	RVP	sulfurLevel	ETOHVol	MTBEVol	ETBEVol	TAMEVol	aromaticC	olefinC	benzeneC	e200	e300	T50	T90
1401	12	12.9	23	10.9	0	0	0	18.8	10.5	0.3	57.5	87.2	157.0	316.4
1402	12	12.9	22	12.2	0	0	0	18.7	10.4	0.3	57.6	87.2	156.7	315.6
1403	12	12.8	22	10.8	0	0	0	19.7	10.2	0.3	57.5	86.9	157.4	316.4
1404	12	11.7	21	10.7	0	0	0	19.9	10.1	0.4	55.8	87.5	165.7	312.8
1405	12	7.5	17	10.5	0	0	0	18.6	8.2	0.4	48.1	87.1	203.7	316.1
1406	12	6.9	22	10.4	0	0	0	19.9	8.6	0.3	47.0	86.2	209.1	320.5
1407	12	7.0	22	10.5	0	0	0	17.0	8.7	0.3	47.2	85.9	207.8	323.3
1408	12	6.9	22	10.4	0	0	0	16.8	8.5	0.3	46.7	85.6	209.3	324.2
1409	12	7.5	23	10.5	0	0	0	17.6	9.9	0.3	48.8	85.8	200.6	323.0
1410	12	10.7	23	10.6	0	0	0	18.2	10.1	0.4	54.5	86.6	173.1	319.1
1411	12	12.3	22	10.8	0	0	0	19.7	9.9	0.4	55.9	87.2	164.4	315.8
1412	12	12.9	23	10.7	0	0	0	18.9	10.1	0.3	57.2	88.4	160.5	309.4
21501	20	0	8	0	0	0	0	0	0	0	0	0	0	0
21502	20	0	8	0	0	0	0	0	0	0	0	0	0	0
21503	20	0	8	0	0	0	0	0	0	0	0	0	0	0
21504	20	0	8	0	0	0	0	0	0	0	0	0	0	0
21505	20	0	7	0	0	0	0	0	0	0	0	0	0	0
21506	20	0	9	0	0	0	0	0	0	0	0	0	0	0
21507	20	0	8	0	0	0	0	0	0	0	0	0	0	0
21508	20	0	7	0	0	0	0	0	0	0	0	0	0	0
21509	20	0	7	0	0	0	0	0	0	0	0	0	0	0
21510	20	0	7	0	0	0	0	0	0	0	0	0	0	0
21511	20	0	7	0	0	0	0	0	0	0	0	0	0	0
21512	20	0	8	0	0	0	0	0	0	0	0	0	0	0
190	90	0	0	0	0	0	0	0	0	0	0	0	0	0
230	30	0	0	0	0	0	0	0	0	0	0	0	0	0
251	51	7.7	8	74	0	0	0	0	0	0	49.9	89.5	200	300

#### 6.5.4 Fuel Usage Fraction

A new table called 'Fuel Usage Fraction' became part of the fuel input files that need to be imported into the MOVES GUI through the CDM. This table contains the countyID, fuelYearID, modelYearGroupID, sourceBinFuelTypeID, fuelSupplyFuelTypeID and usageFraction, and each field is described later in this section. E-85 capable vehicles, which are also known as flex-fuel vehicles, (FFVs) do exist throughout the nation.

These vehicles are capable of using either conventional gasoline or E-85 fuel, which is a blend of 85% ethanol and 15% gasoline by volume. The Fuel Usage table classifies the fraction of E-85 use among E-85 capable vehicles but it is not the fraction of use among all vehicles or the fraction of E-85 capable vehicles in the fleet. It should also be noted that the fuel E-85 should always be selected in the On-road Vehicle Equipment Panel because FFVs are there in the national fleet.

Therefore, the Fuel Usage Fraction inputs turn out to be the appropriate place to account for the amount of actual E-85 usage by the FFVs. Since local data is not available, the MSCP utilized the appropriate default Fuel Usage Fraction Table for the inventory of the 2014 criteria and GHGs pollutants as shown in Table 6-5 of this document.

**TABLE 6.5.4-a Fuel Usage Fraction**

countyID	fuelYearID	modelYearGroupID	sourceBinFuelTypeID	fuelSupplyFuelTypeID	usageFraction
24003	2014	0	1	1	1
24003	2014	0	2	2	1
24003	2014	0	3	3	1
24003	2014	0	4	4	1
24003	2014	0	5	1	0.982134
24003	2014	0	5	5	0.017866
24003	2014	0	9	9	1

The fuel usage fraction in Table 6-5 of this document contains the following fields:

**CountyID:** This identifies the county that is being modeled.

**fuelYearID:** This identifies the year of evaluation.

**modelYearGroupID:** This is sometimes refers to as the engine size. However, a value of zero is entered.

**sourceBinFuelTypeID:** This identifies all the available fuels including placeholder's fuels.

**fuelSupplyFuelTypeID:** This identifies the fraction of fuel mixtures. For instance, if the fuel is gasoline only, the fuelSupplyFuelTypeID is equal to 1, which means that the fuel is 100% gasoline.



**usageFraction:** This identifies the fraction of fuel that is being used in the area that is being modeled by capable E-85 vehicles. For example, if the fuel usage fraction was 1.0 in the fuelSupplyFuelTypeID = 5 column, showed that E-85 capable vehicles (FFVs) were using E-85 100% of the time. On the other hand, if the fuel usage fraction was zero in the fuelSupplyFuelTypeID = 5 column, showed that FFVs were using gasoline 100% of the time. It could also indicate that there was no E-85 available in the local fuel supply.

#### 6.5.5 Alternate Vehicle Fuel Technology (AVFT)

This table contains the 13 MOVES source types with the fuel engine fraction of each vehicle using different fuels and technologies in each model year. This table permits the users to modify the fraction of vehicles using different fuels and technologies in each model year. This means that the Fuel Tab allows users to define the split between diesel, gasoline, ethanol, CNG and electricity for each vehicle type and model year. For instance, if in a certain county, it was found that the sales data showed that more diesel vehicles were sold than gasoline vehicles, this tab could be used to make the necessary adjustment to reflect the sales data for this particular county.

The State has adopted both the California Low Emission Vehicle (CALEV) and Zero Emission Vehicle (ZEV) Programs. Moreover, the portion of this table reflects the impact of the modeling of the evaporative portion of the ZEV Program, which affects only source types 21, 31 and 32. It should be noted that each state should make sure that the fuel engine fraction of each fuel should be adjusted in this table according to EPA's Guidance. Based on this information, MSCP appropriately adjusted the AVFT Table for source types 21, 31 and 32 to reflect the implementation of the ZEV Program in the State beginning in model year 2011.

Furthermore, for transit buses, the default table assumed that gasoline, diesel and CNG buses were present in the fleet for most model years. However, if the user has the information about the fuel used by the transit bus fleet in a particular county, the user should make sure that this information is reflected in the AVFT table. For example, if in the modeling area, there are no CNG transit buses, the user needs to allocate zero activity to GNG transit buses in the AVFT Table in order to calculate the correct emission results for transit buses. If this is not done, some VMT would be allocated to CNG transit buses, and the emissions associated with this VMT would not be included in the output, since only gasoline and diesel vehicles were selected in the On-road Vehicle Equipment Panel of the MOVES GUI.

As a result of the enormous size of the AVFT Table, Table 6-6 of this document could only show a portion of the AVFT Table. In addition, Table 6-6 specifically showed the fuel engine fraction for source type 21, which was one of the source types that were affected by the implementation of the CALEV and ZEV Programs that began in the State in calendar year 2011, which also coincided with model year 2011.

Other inputs files that were imported into the MOVES GUI include starts, hotelling and retrofit data. MSCP opted for the default values of these input files because local data were not available.

**TABLE 6.5.5-a AVFT**

SourceTypeID	modelYearID	fuelTypeID	engTechID	fuelEngFraction
21	2009	1	1	0.948159
21	2009	2	1	0.007368
21	2009	5	1	0.044473
21	2009	9	30	0
21	2010	1	1	0.935791
21	2010	2	1	0.010123
21	2010	5	1	0.054087
21	2010	9	30	0
21	2011	1	1	0.812126
21	2011	2	1	0.011746
21	2011	5	1	0.066128
21	2011	9	30	0.11
21	2012	1	1	0.786923
21	2012	2	1	0.011746
21	2012	5	1	0.081331
21	2012	9	30	0.12
21	2013	1	1	0.823469
21	2013	2	1	0.011746
21	2013	5	1	0.044785
21	2013	9	30	0.12
21	2014	1	1	0.823632
21	2014	2	1	0.011746
21	2014	5	1	0.044622
21	2014	9	30	0.12
21	2015	1	1	0.804509
21	2015	2	1	0.011746
21	2015	5	1	0.043745
21	2015	9	30	0.14

### **6.5.6 Fuel Wizard**

This is a new feature in MOVES2014. It is a tool for modifying interrelated properties in a user fuel formulation table when analysis of a change in fuel is desired. For instance, the fuel wizard was used to change the current gasoline sulfur content to 10 ppm to model the effects of gasoline sulfur as required by the Tier3 sulfur content standard, which could also affect other fuel properties. In this case, the Fuel Wizard would appropriately modify related fuel formulation properties, based on refinery modeling, to reflect the change made to sulfur content level.

Once the Wizard is opened, the user could select the desired fuel formulation from the fuel formulation table of the importer database, and from the drop-down field, select the property that needs to be changed, which in this case, is the sulfur content. Then, the Fuel Wizard would automatically adjust related fuel properties in a manner that is consistent with refinery modeling results. As a result of this, the Wizard would display the old and new fuel properties, and the user may accept or reject the change. Furthermore, it is recommended that fuel property changes should be made in ascending order of priority, as the Wizard is only capable of changing one property at a time. In addition, it should be noted that by changing a single fuel property such as sulfur content or RVP, other properties like aromatics or the distillation properties change as well.

Furthermore, the Fuel Wizard contains adjustment factors for three fuel properties (ethanol, sulfur and RVP), which are the most commonly analyzed fuel properties for state and local programs. Moreover, the Fuel Wizard is also currently capable of creating fuels with ethanol variations (E0-E15), sulfur from 5 ppm to 80 ppm and RVP from 5 psi to 14 psi.

## **6.6 OTHER VEHICLE TECHNOLOGY AND CONTROL STRATEGY DATA**

### **6.6.1 Federal Programs**

Current federal vehicle emissions control and fuel programs had been incorporated into the MOVES2014 software. These include the National Program standards covering model year vehicles through 2016. Modifications of default emission rates were required to reflect the early implementation of the National Low Emission Vehicle (NLEV) Program in Maryland.

### **6.6.2 State Vehicle Technology Programs**

**MD Clean Car Program:** Under the Maryland Clean Cars Act of 2007, Maryland adopted the California Low Emission Vehicle (LEV II) Program (CALEV). CALEV was implemented beginning in 2011. CALEV also required all 2011 model year and newer vehicles gross vehicle weight rating (GVWR) to be up to 14,000 lbs. registered in Maryland to meet California emission standards for both criteria and greenhouse gas pollutants. In addition, CALEV also contains a zero emission vehicles' (ZEVs') component that required the manufacturers to produce a certain

percentage of zero emission vehicles such as electric, fuel cell, etc., to be purchased in the State. California had just adopted new amendments to the Low-Emission Vehicle regulations entitled, California Low Emission Vehicle III (CALEVIII), which is known as third generation low emission vehicle standards. These amendments created more stringent emission standards for new motor vehicles. These new standards would be phased-in over the 2015-2025 model years in the State.

The impacts of CALEVIII were modeled for all analysis years using USEPA's Guidance document entitled, *Instructions for Using LEV and NLEV Inputs for MOVES2014*, EPA-420-B-14-060a October 2014. To reflect the impact of both NLEV and CALEVIII programs, USEPA had provided inputs in the form of two databases and one spreadsheet file. The emission rates in these files were to be used only in states other than California, which had adopted the California LEVIII standards, as well as states in the Ozone Transport Commission (OTC), which also received early implementation of NLEV standards. The ZEV file and the CA LEVIII's database were modified according to USEPA's Guidance in the State of Maryland, to reflect the start date that began in 2011.

## **6.7 POST-PROCESS SUITE (PPSUITE)**

PPSUITE is a software tool that is widely used for estimating speeds and processing emission rates. It is a process that is integral to produce key input files to the MOVES emission model. Moreover, PPSUITE utilizes a number of programs and operations, which are assembled into a chain of jobs and steps. Michael Baker Jr. Intl. Inc. has utilized the CENTRAL software to provide MDE with the ability to manage efficiently the emission calculation process.

### **6.7.1 Other PPSUTE Inputs**

The other files required by PPSUITE, which are used for all yearly analysis runs include:

- EQUIV.DBF, which is used for input pattern files and output aggregation.
- NAME.DBF, which is used for the output emission reports. It also relates the coded facility and area type numbers to txt names.
- VEHFC2\_14SHA.DAT, which contains the impacts of truck percentages on roadway capacity. Consequently, the amount of trucks could have an impact on calculated congested speeds.
- SPDCAP05.DBF. This file contains the free flow speeds, free flow capacities and BPR parameters, which represents the relationship between speed and congestion for each facility and area types as well as lane combination.

### **6.7.2 Speed/Capacity Lookup Information**

The speed-lookup table has a significant impact on calculated speeds and capacities for each roadway link. This file is used to determine free-flow speeds for links without coded speed limits, link "ideal" capacity, signal densities and characteristics and speed/congestion relationships. The speed capacity fields include inter alia AREATYPE, which is used to indicate area type code, FACTYPE, which represents facility code, LANES, which indicates number of directional lanes, etc.

### **6.7.3 Running the Air Quality Process in Central**

The statewide emission calculation process had been set up to use CENTRAL to assist the user in running the individual program steps. This CENTRAL Program provides a customized windows user-interface with dialog boxes, edit fields and buttons, which are designed specifically for this process. The CENTRAL software had been licensed to MDE, which is always renewed every year and had been used for past regional air quality and conformity analyses as well as the inventories documented herein. This process also requires the PPSUITE software had to be installed in conjunction with MOVES2014 on the computer hard-drive.

### **6.7.4 Directory and File Structure**

The CD-ROM that Michael Baker Jr. Intl. Inc. provided contains the MDMOVES14's directory. This directory contains the input files and program driver files that were needed for producing the emission runs. This directory also contains the following sub-directories:

- ! CENTRAL.
- COMMON.
- DRIVERS.
- MOVESINPUTS.
- OUT.
- OUT\_RATETABLE.
- OUT\_SUMMARY.
- PROGRAMS.
- TRAFFICINPUTS.

### **6.7.5 Zone/Area Equivalency**

The Zone/Area equivalency file is used to provide equivalency between each link and the fields used for hourly and vehicle mix pattern indexing and output emission indexes. The user is not required to make any adjustments to the file, and even updates to the network and pattern data area.

The fields included in the equivalency file are as follows:

The fields that PPSUITE used in the analysis consist of COUNTY, which defines the county number for pattern and VMT area indexing and NAME that provides the county name.

On the other hand, the fields that are not used in the analysis, but kept for reference include the following:

- ZONE represents traffic zone number, which is linked to the network database field with the same name. This field represents a combination of the county number and the urban-rural code value in the RURURB field. This is calculated as  $(\text{COUNTY} * 10) + \text{RURURB}$ .
- UR is related to the RURURB field values.
- FLIPS\_CO represents county FIPS code.
- DISTRICT defines the district the county falls under.
- CO\_CODE represents county code.

#### **6.7.6 Names Database File**

This file is used in generating output emission reports. It transmits the coded facility and area type numbers to text names. This file should only be updated if the area and facility index numbering scheme had been changed from its present values. The NAMES.DBF file contains the emission county totals generated emission reports.

#### **6.7.7 Running the CENTRAL Process**

The CENTRAL menu system, which is basically a screen menu system, has been setup to produce emission estimates. This screen menu system comprises the work area directory specified as C:\MDMOVES14, while all output files would be placed in "OUT" subdirectory. It should also be noted that the "Primary Control File" should always be specified as the MDMOVES.CTL file, which could be found in the CENTRAL subdirectory. Furthermore, the user could also select the appropriate directories and files by using the "Select" button on the right side of each input option. After the completion/verification of the "Work Area Directory" and the "Primary Control File", the user could select the "GO" button, which would open other menu screens. This screen allows the user, in this case MSCP to choose between the "Run Emission Process" and the "Run Post Processing Steps". The "Run Post Processing Step" is used to combine emission results for multiple counties.

## 6.8 ANALYSIS METHODOLOGY

The previous sections summarized the input data used for computing speeds and emission rates for 2014 motor vehicle highway emission estimates' inventories. This section describes how PPSUITE and MOVES used the MOVES input data to produce criteria and GHG emission estimates. Figure 6.6 presents a more detailed overview of the PPSUITE analysis procedure using the available traffic data information described in the previous section.

### 6.8.1 VMT Preparation

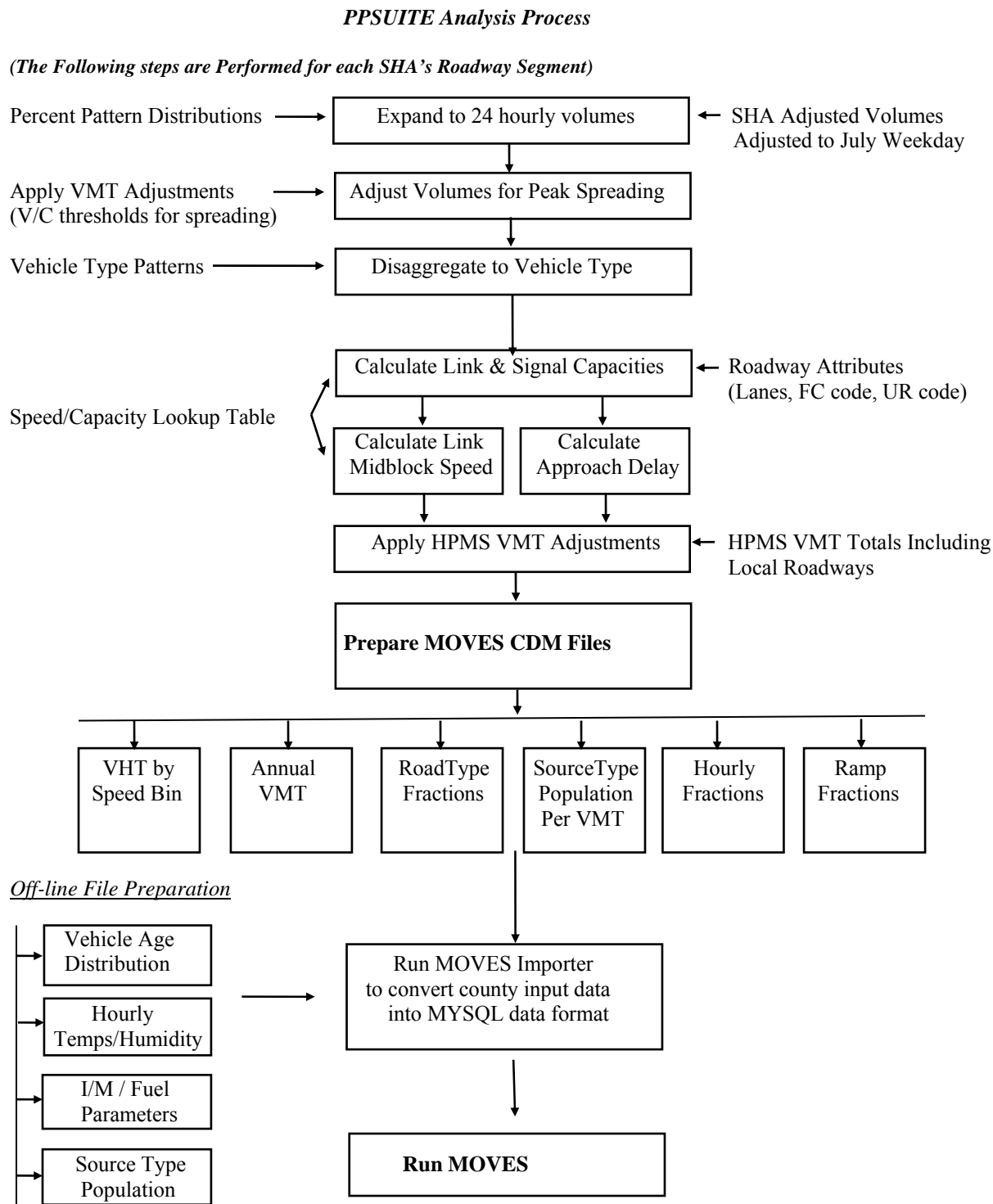
Producing an emissions' inventory with PPSUITE requires a complex process of disaggregation and aggregation of vehicle activities. The data that was available was used on a very small scale -- individual ½ mile roadway segments for each of the 24 hours of the day. This data needed to be processed individually to determine the distribution of vehicle hours of travel (VHT) by speed and then aggregated by vehicle class to determine the input VMT to the MOVES' emission model. The key steps in the preparation of VMT for a summer daily run include:

- *Application of Seasonal Adjustments* - PPSUITE took the input daily volumes from SHA (which represents AADT traffic) and seasonally adjusted the volumes to an average weekday in July. This adjustment utilized factors developed for each functional class and urban/rural code. VMT could then be calculated for each link using the adjusted weekday volumes.
- *Disaggregation to Hours* - After seasonally adjusting the link volumes, the volumes were split to each hour of the day. These seasonal adjustments allowed for more accurate speed calculations factoring in the effects of congested hours, thereby allowing PPSUITE to prepare the hourly VMT and speeds for input to the MOVES model.
- *Peak Spreading* - After dividing the daily volumes to each hour of the day, PPSUITE identified hours that were unreasonably congested. For those hours, PPSUITE then extended a portion of the volume to other hours within the same peak period, thereby approximated the “peak spreading” that normally occurred in such over-capacity conditions.
- *Disaggregation to Vehicle Types* - USEPA requires VMT estimates to be prepared by source types, reflecting specific local characteristics. As a result, for Maryland's emission inventory runs, the hourly volumes were disaggregated to the five HPMS MOVES vehicle grouping based on count data assembled by SHA in combination with MOVES defaults as described in the previous section.
- *Application of HPMS VMT Adjustments* - Volumes must also be adjusted to account for differences with the HPMS VMT totals, as described previously. VMT adjustment factors were provided as input to PPSUITE, and were applied to each of the roadway segment volumes. These factors were developed from the latest HPMS download (conducted

triennially); however, they are also applied to any future year runs. The VMT that is added or subtracted to the SHA's database assumed the speeds calculated using the original volumes for each roadway segment for each hour of the day.



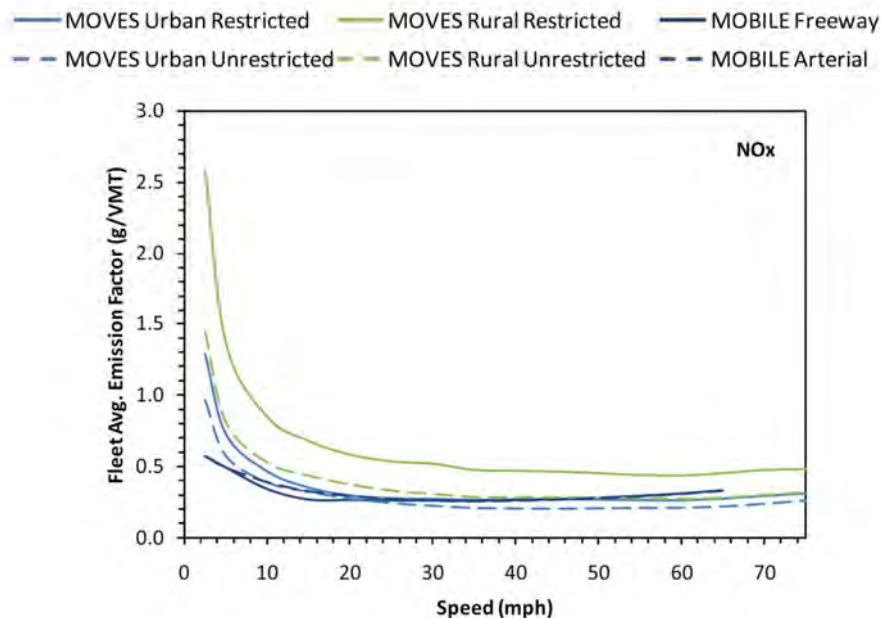
**Figure 6-6: PPSUITE Speed/Emission Estimation Procedure**



## 6.8.2 Speed Estimation

Emissions for many pollutants (including both VOC and NO<sub>x</sub>) vary significantly with travel speed. VOCs generally decrease as speed increases, while NO<sub>x</sub> decreases at the low speed range and increases at higher speeds, as illustrated in Figure 6.7.

**Figure 6-7: Emission Factor vs. Speed Variances (NO<sub>x</sub>)**



Source: Figure 3 from *Implications of the MOVES2010 Model on Mobile Source Emission Estimates*, Air & Waste Management Association, July 2010.

USEPA recognizes that the estimation of vehicle speeds is a difficult and complex process. Moreover, it recommends that special attention should be given to developing reasonable and consistent speed estimates, knowing that emissions are so sensitive to speeds. Furthermore, it also recommends that VMT be disaggregated into subsets that have roughly equal speed, with separate emission factors for each subset. At a minimum, speeds should be estimated separately by road type.

The computational framework used for this analysis met and exceeded that recommendation. Speeds were individually calculated for each roadway segment by hour, and they included the estimated delays encountered at signals. Rather than accumulating the roadway segments into a particular road type and calculating an average speed, each individual link hourly speed was represented in the MOVES vehicle hours of travel (VHT) by speed bin file. This MOVES input file allows the specification of a distribution of hourly speeds. For example, if 5% of a county's arterial VHT operates at 5 mph during the AM peak hour and the remaining 95% operates at 65 mph, this could be represented in the MOVES speed input file. For the motor vehicle highway emissions' inventory, distributions of speeds were input to MOVES by both road type and source type by each hour of the day.

To calculate speeds, PPSUITE first obtained initial capacities (how much volume the roadway could serve before heavy congestion), and free-flow speeds (speeds assuming no congestion) from the speed/capacity lookup data. As described in previous sections, this data contained default roadway information indexed by the urban/rural code and functional class. For areas with known characteristics, values could be directly coded to the SHA's database, and the speed/capacity data could be overwritten.

However, for most areas where known information is not available, the speed/capacity lookups provide valuable default information regarding speeds, capacities, signal characteristics, and other capacity adjustment information used for calculating congested delays and speeds. The result of this process was an estimated average travel time for each hour of the day for each highway segment. The average time multiplied by the volume produced by VHT.

### 6.8.3 Developing the MOVES Traffic Input Files

The PPSUITE software is responsible for producing the following MOVES input files during any analysis run:

- VMT by HPMS vehicle class
- VHT by speed bin
- Road type distributions
- Ramp fractions

These files are text formatted files with a \*.csv extension. The files were provided as inputs to MOVES GUI through the CDM.

***VMT Input File:*** VMT is the primary traffic input that affects emission results. The roadway segment distances and traffic volumes were used to prepare estimates of VMT. PPSUITE performed these calculations and the MOVES annual VMT input file was imported into the MOVES GUI through the CDM.

***VHT by Speed Bin File:*** As described in the previous section, the PPSUITE software prepares the MOVES VHT by speed bin file, which summarizes the distribution of speeds across all links into each of 16 MOVES speed bins for each hour of the day by road type. This robust process ensures that MOVES emission rates were used to the fullest extent and was consistent with the methods and recommendations provided in USEPA's Technical Guidance.

***Road Type Distributions:*** In MOVES, typical drive cycles and associated operating conditions vary by the type of roadway.

MOVES define five different road types as follows:

- 1 Off-Network
- 2 Rural Restricted Access
- 3 Rural Unrestricted Access
- 4 Urban Restricted Access

## 5 Urban Unrestricted Access

For this inventory, the MOVES road type distribution file was automatically generated by PPSUITE using defined equivalencies. The off-network road type included emissions from vehicle starts, extended idle activity, and evaporative emissions. Off-network activity in MOVES is primarily determined by the Source Type Population input.

The remaining distribution among road types is determined by equating the functional class with each MOVES road type as follows:

- MOVES Road Type (2) = SHA Functional Class (1)
- MOVES Road Type (3) = SHA Functional Class (2,6,7,8,9)
- MOVES Road Type (4) = SHA Functional Class (11,12)
- MOVES Road Type (5) = SHA Functional Class (14,16,17,19)

**Ramp Fractions:** Since ramps are not directly represented within the SHA's database information, it is assumed that 8% of the Freeway VHT is ramp VHT. This is consistent with national default values within MOVES and recommendations provided in USEPA's Technical Guidance.

### 6.8.4 MOVES Runs

After computing speeds and aggregating VMT and VHT, PPSUITE prepared traffic-related inputs needed to run USEPA's MOVES2014 software. Additional required MOVES inputs were prepared external to the processing software, which included temperatures, I/M program parameters, fuel characteristics, vehicle fleet age distributions and source type population.

The MOVES county importer was run in batch mode. This program converted all data files into the MYSQL formats used by the MOVES model. At that point a MOVES run specification file (\*.mrs) was created that specified options and key data locations for the run. MOVES was then executed in batch mode.

MOVES could be executed using either the *inventory* or *rate-based* approaches. For this highway emissions inventory, MOVES was applied using the *inventory-based* approach. Under this method, actual VMT and population were provided as inputs to the model, and MOVES was responsible for producing the total emissions for the area being modeled. Under the *rate-based* approach, MOVES would produce emission factors, after which PPSUITE would apply the emission factors to the link data and calculate total emissions for the area being modeled.

## 6.9 FUEL CONSUMPTION ESTIMATES

The MOVES output energy rates could be converted to fuel consumption values using the conversion rates for gasoline and diesel fuel (See equation 1-1 and 4-12 for the conversion of fuel from kilojoules to gallons).

The estimated 2014 fuel consumption values are shown in Table 6-7 below. The 2014 values were compared to the actual statewide fuel sales as illustrated in the last column of Table 6-7.

**TABLE 6.9.1-a 2014 Fuel Consumption Estimates**

Scenario	Fuel Type	MOVES2014 Output		Actual Statewide Fuel Sales <sup>2</sup> (Thousand gallons)
		Energy Consumption (Trillion KJ)	Estimated Fuel Consumption <sup>1</sup> (Thousand Gallons)	
2014	Gasoline	308.9	<b>2,605,438</b>	<b>2,763,987</b>
	Diesel	85.8	<b>619,549</b>	<b>479,572</b>

**TABLE 6.9.1-b Fuel Properties**

Fuel	Fuel Density	Energy Content
	g/gallon	KJ/g
Gasoline (E10)	<b>2839</b>	<b>41.762</b>
Conventional Diesel Fuel	<b>3167</b>	<b>43.717</b>

$$Fuel(gallons) = Energy(KJ) \times \left( \frac{1}{energyContent} \right) \left( \frac{g}{KJ} \right) \times \left( \frac{1}{fuelDensity} \right) \left( \frac{gallons}{g} \right) \text{Equation 1 - 1}$$

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## 6.11 HIGHWAY VEHICLE INVENTORY GLOSSARY

*AADT*: Average Annual Daily Traffic, average of ALL days.

*AWDT*: Average Weekday Daily Traffic.

*County Data Manager (CDM)*: User interface developed to simplify importing specific local data for a single county or a user-defined custom domain without requiring direct interaction with the underlying MySQL database.

*Emission rate or factor*: Expresses the amount of pollution emitted per unit of activity. For highway vehicles, usually in grams of pollutant emitted per mile driven

*FC*: Functional code, applied in data management to road segments to identify their type (freeway, local, etc.).

*Growth factor*: Factor used to convert volumes to future years.

*HPMS*: Highway Performance Monitoring System, MDOT's official source of highway information and a subset of SHA.

*I/M*: Vehicle emissions inspection/maintenance programs ensure that vehicle emission controls are in good working order throughout the life of the vehicle. The programs require vehicles to be tested for emissions. Most vehicles that do not pass must be repaired.

*MOVES*: The latest model EPA has developed with which Maryland uses to estimate emissions from highway vehicles.

*Pattern data*: Extrapolations of traffic patterns (such as how traffic volume on road segment types varies by time of day, or what kinds of vehicles tend to use a road segment type) from segments with observed data to similar segments.

*PPSUITE*: Post-Processor for Air Quality, a set of programs that estimate speeds and processes MOBILE emission rates.

*Road Type:* Functional code, applied in data management to road segments to identify their type (rural/urban highways, rural/urban arterials, etc.)

*Source Type:* vehicle types used in MOVES modeling

*UR:* Urban/rural code, applied in data management to identify whether a road segment is urban, small urban or rural.

*VHT:* Vehicle hours traveled.

*VMT:* Vehicle miles traveled. In modeling terms, it is the simulated traffic volumes times the link length.



## 7.0 BIOGENIC EMISSIONS

### 7.1 INTRODUCTION

Biogenic sources, a subset of natural sources, include only those sources that result from some sort of biological activity. Biogenic emissions represent a significant portion of the natural source emissions, and VOC, NO<sub>x</sub>, and the greenhouse gases can be emitted from biogenic sources.

Vegetation is the predominant biogenic source of VOC and is typically the only source that is used to estimate biogenic VOC emissions. Microbial activity is responsible for the emission of NO<sub>x</sub> and the greenhouse gases of CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O. Soil microbial activity is responsible for NO<sub>x</sub> and N<sub>2</sub>O emissions from agricultural lands and grasslands. CH<sub>4</sub> is emitted through microbial action in waterlogged soils or in other anaerobic microenvironments. CO<sub>2</sub> is released through the aerobic decay of biomass (EPA, 1993; EPA, 1990a).

The Biogenic emissions category can't be controlled directly; therefore, a majority of the resources were directed towards other categories of air pollution where direct control is feasible. For this reason, MDE used the data files created and made available by EPA (2014). These emissions were computed on an hourly basis with a specially-modified version of BEIS3<sup>76</sup> that utilized county land use data from EPA's land use inventory and National Weather Service first-order station data of temperature and cloud cover. However, due to the large size of the hourly data files, only the monthly data files were available when MDE gathered this information.

The data files EPA generated contained county-total estimates of 2002 biogenic emissions based on the BEIS3.12 model. The purpose of this spreadsheet is to provide default 2002 estimates to the states for the purpose of biogenic emissions submittals by county required by the Consolidated Emissions Reporting Rule (CERR). These estimates were created using the following data:

- 1) 2014 annual meteorology
- 2) BEIS3.14 model via the Sparse Matrix Operator Kernel Emissions (SMOKE) modeling system
- 3) Recently revised BEIS3.14 emission factors file (also provided as a separate file with this spreadsheet)
- 4) BELD3 land use data (1-km original data aggregated to 36-km grid).
- 5) Post processing summation of county-total emissions from SMOKE, calculated from 36-km gridded emissions using the "land area" spatial surrogate. This means that when calculating the county-total numbers, the 36-km gridded emissions were assumed to be uniformly distributed over the grid cell for purposes of mapping to the counties.

Monthly emission estimates were given for each county in Maryland for the following pollutants:

- CO: Carbon monoxide (a new species output by BEIS3.14)
- NO: Nitrogen oxide
- ALD2: Aldehyde group from CB-IV chemical mechanism

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<sup>76</sup> BEIS 3.142 can be downloaded from an EPA website at: <https://www.epa.gov/air-emissions-modeling/biogenic-emission-sources>

- ETH: Ethane group from CB-IV chemical mechanism
- FORM: Formaldehyde group from CB-IV chemical mechanism
- ISOP: Isoprene
- NR: Nonreactive VOC
- OLE: Olefin group from CB-IV chemical mechanism
- PAR: Paraffin group from CB-IV chemical mechanism
- XYL: Xylene group from CB-IV chemical mechanism
- TOL: Toluene group from CB-IV chemical mechanism
- Total VOC: The sum of ALD2, ETH, FORM, ISOP, NR, OLE, PAR, XYL, and TOL
- TERPB: Terpenes (Note that the same mass accounted for by TERPB is also included in VOC)

The daily emissions were calculated by summing the monthly emissions from June, July, and August and dividing by the number of days in those three months (92).



**Maryland**  
Department of  
the Environment

Larry Hogan  
Governor

Boyd Rutherford  
Lieutenant Governor

Ben Grumbles  
Secretary

## **APPENDIX A-2**

***Projection Year  
State Implementation Plan  
Emissions Inventory  
Methodologies***

**Prepared by:  
Maryland Department of the Environment**



# **Maryland Department of the Environment Projection Year Emissions Inventory Methodologies**

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## **1.0 INTRODUCTION/BACKGROUND**

This section describes the proposed approach to estimating future year emissions for the State of Maryland nonattainment areas for the purposes of meeting maintenance plan requirements.

In preparing the projection year inventories, the approach should address two components: (1) estimating expected changes in emissions generating activity between the base year (2014) and the projection year; and (2) accounting for changes in emission rates by source category resulting from air pollution regulations or the replacement of equipment with new, lower emitting technologies. For the first component, the best way for estimating activity changes is to pick an indicator for each source category that has available projections data and provides as direct as possible a link to emissions generating activity.

Possible sources of projections data, in order of preference, are: (1) State of Maryland economic/population projections at the State, sub-State level, or facility level, (2) recent regional economic projections, or (3) Site-specific activity data.

Modeling of control effects will focus on the source categories whose emission rates are expected to change between 2014 and 2025 or 2030. These source categories include on-road mobile sources, nonroad mobile sources, and residential wood combustion.

### **1.1 ON-ROAD MOBILE SOURCES**

On-road mobile source emission projections to 2021 will be made using MOVES emission factors and projections of VMT by vehicle type, roadway functional classification, and associated speed by the BRTB and their staff, BMC and MDE.

BRTB and BMC will supply MDE with input data for projection years. The projection year emission estimates will take into account any fuels strategies that were adopted or planned for the area.

### **1.2 NONROAD MOBILE SOURCES**

The Department used two methodologies approved by the EPA for developing the emissions inventory for nonroad categories. One of the methodologies used consisted of employing EPA's NONROAD<sup>1</sup> MOVES Model. In a memorandum<sup>2</sup>, dated June 16, 2003, EPA allowed the use of the draft NONROAD Model and associated default inputs in the development of inventories supporting State Implementation Plans (SIPs). The second methodology entailed the use of surrogate economic or operational data from federal agencies. The NONROAD MOVES model was used to generate all nonroad mobile emission estimates except for the marine, air and rail source categories.

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<sup>1</sup> NONROAD2008 Model incorporated into MOVES2014.

<sup>2</sup> USEPA Memorandum, dated June 16, 2003, from Gene Tierney or the Air Quality and Modeling Centery and Leila H. Cook of the Transportation and Regional Programs Division; to Regional Mobile Source Program Manages and Staff.

### 1.2.1 Marine-Air-Rail

The Marine-Air-Rail (M-A-R) source emissions were forecasted to the projection years using surrogate economic or operational data. Aircraft emission projections were grown using Federal Aviation Administration (FAA) Aircraft Operations Forecasts (TAFs or LTOs). Locomotives emission projections were grown using U.S. Energy Information Administration (EIA) Annual Energy Outlook (AEO) Rail data. Marine Vessels emission projections were grown using EIA AEO Marine Shipment data. The growth factors for the M-A-R sources are presented in the table below.

**Table 1: Marine-Air-Rail (M-A-R) Growth Factors**

M-A-R Source Category	SCC	Surrogate Growth Factor	GF 2021
Aircraft - Military	2275001000	EMP NAICS 481	1.0410
Aircraft - Commercial	2275020000	EMP NAICS 481	1.0410
Aircraft - General Aviation	2275050000	EMP NAICS 481	1.0410
Aircraft - Air Taxi	2275060000	EMP NAICS 481	1.0410
Marine Vessels, Commercial /Diesel /Port emissions	2280002100	EMP NAICS 483	1.1551
Marine Vessels, Commercial /Diesel /Underway emissions	2280002200	EMP NAICS 483	1.1551
Marine Vessels, Commercial /Residual /Port emissions	2280003100	EMP NAICS 483	1.1551
Marine Vessels, Commercial /Residual /Underway emissions	2280003200	EMP NAICS 483	1.1551
Locomotives - Class I Line Haul	2285002006	EMP NAICS 482	1.0000
Locomotives - Class II / III Line Haul	2285002007	EMP NAICS 482	1.0000
Locomotives - Passenger Trains (Amtrak)	2285002008	EMP NAICS 482	1.0000
Locomotives - Commuter Lines	2285002009	EMP NAICS 482	1.0000
Locomotives - Yard Locomotives	2285002010	EMP NAICS 482	1.0000

### 1.2.1 NONROAD MOVES

Nonroad model source emissions were forecast to the projection years using the NONROAD MOVES Model run for projections year 2021.

For the NONROAD model categories, annual emissions will be estimated by running of the current version of EPA's MOVES-NONROAD model for the projection year with Maryland-specific inputs used in the base year inventory development.

Annual emissions for NONROAD MOVES Model are estimates using the most current version of EPA's NONROAD MOVES Model (NONROAD2008a model version, which is incorporated into MOVES2014a Model). The model includes more than 80 basic and 260 specific types of nonroad equipment sources by horsepower rating, and fuel types (gasoline, diesel, compressed natural gas (CNG), and liquefied petroleum gas (LPG)) to estimates annual emissions. Examples of nonroad equipment sources type's area:

- Residential and commercial lawn and garden equipment, such as leaf and snow blowers.
- Recreational vehicles, such as all-terrain vehicles and off-road motorcycles.



- Logging equipment, such as chain saws.
- Agricultural equipment, such as tractors.
- Construction equipment, such as graders and backhoes.

Once the user programs the NONROAD MOVES Model for the specified geographic area and pollutants, the model then estimates and calculates annual emissions for a twelve month period per weekdays per weekends per pollutants. See “EPA’s NONROAD2005 (202 pp, 1.6MB, EPA420-R-05-013) user guide websites: NONROAD2005 User's Guide (PDF) (202 pp, 1.6MB, EPA420-R-05-013) and NONROAD2008a: <https://www.epa.gov/moves/nonroad-model-nonroad-engines-equipment-and-vehicles>.”

The NONROAD MOVES model further estimates annual emissions for each specific type of nonroad equipment by multiplying the following inputs data estimates:

- Equipment population for base year (or base year population grown to a future year), distributed by age, power, fuel type, and application;
- Average load factor expressed as average fraction of available power;
- Available power in horsepower;
- Activity in hours of use per year; and
- Emission factor with deterioration and/or new standards.

These emissions estimates are then temporally allocated for a typical weekday and weekend per month per pollutant to calculate an entire annual or yearly emissions period. In addition, there are several input files that provide necessary information to calculate annual emissions estimates. These input files correspond to the basic data needed to provide the annual calculations: emission factors, base year equipment population, activity, load factor, average lifetime, and geographic allocations. The model automatically applies controls, when applicable, for a given year.

Finally, add the typical weekday and weekend per month per pollutant to calculate annual or yearly emissions estimate.

## 1.3 POINT SOURCES

Point sources will include those with allowable emissions of 25 or more tons per year of SO<sub>2</sub>. In addition to the actual emissions reported for each facility, allowable or potential to emit emissions for point sources will be included. These allowable emissions are important to consider in projected emission inventories, especially where they are much different than actual emissions. Actual emissions will be forecast to the projection years using housing and employment growth surrogates.

For emissions inventory purposes, point sources are defined as stationary, commercial, or industrial operations that emit more than 10 tons per year (tons/year) of VOCs or 25 tons/year or more of NO<sub>x</sub> or CO. The point source inventory consists of actual emissions for the base-year 2014 and includes sources within the geographical area of the Anne Arundel and Baltimore

Counties, MD SO<sub>2</sub> nonattainment area. Each of Maryland's major source facility is identified by standard NAICS industry codes.

Point source emissions are forecasted using data from the Maryland Department of Labor, Licensing and Regulation (DLLR), Maryland Industry Projections (<http://www.dllr.state.md.us/lmi/iandoproj/industry.shtml>). The industry projection data from the DLLR was correlated to standard NAICS industry employment codes. The calculated growth per NAICS industry employment code is used as the growth surrogate for each major source. Maryland does not allow for negative NAICS growth surrogates (less than one) for a SIP inventory. Therefore, all growth surrogates calculated to be less than one are defaulted to a growth surrogate of one indicating no growth for the facility. The point source growth factors are presented in the table below.

**Table 2: Point Source Growth Factors**

Point Source Growth Factors				
SO2 NAA	State Facility ID	Facility Name	NAICS	2021 GF
Wagner	003-0023	Valley Proteins, Inc.	311	1
Wagner	003-0033	Jessup Correctional Institute	922	1.002228
Wagner	003-0043	Reliable Contracting Company, Inc.	324	1
Wagner	003-0056	Erachem Comilog, Inc	325	1
Wagner	003-0060	Reliable Contracting Company, Inc.	324	1
Wagner	003-0118	William T. Burnett and Company	326	1
Wagner	003-0208	Baltimore Washington International Thurgood Marshall Airport	488	1.044717
Wagner	003-0250	Northrop Grumman Systems Corporation	334	1
Wagner	003-0276	Hi Tech Color Inc	325	1
Wagner	003-0310	Naval Support Activity Annapolis	928	1.031862
Wagner	003-0316	US Coast Guard Yard (USCG Yard)	926	1
Wagner	003-0317	National Security Agency	928	1.031862
Wagner	003-0322	Fort George G. Meade, Dept. of the Army	928	1.031862
Wagner	003-0468	Fort Smallwood Road Complex	22	1
Wagner	003-0548	Lafarge Mid-Atlantic, LLC - Jessup Plant	327	1
Wagner	003-0826	Aggregate Industries - Severn Asphalt	324	1
Wagner	003-0886	Millersville Landfill & Resource Recovery Facility	562	1.05988
Wagner	003-0984	National Security Agency Fanx III	928	1.031862
Wagner	003-1460	Allan Myers Materials-Jessup (RAP)	324	1
Wagner	003-1471	Millersville Landfill Gas to Electric Project	562	1.05988
Wagner	005-0002	University Of Maryland - Baltimore County	61	1.160557
Wagner	005-0003	Bluegrass Materials Texas Quarry	212	1
Wagner	005-0039	Greater Baltimore Medical Center	622	1.08325
Wagner	005-0076	Constellation Power - Notch Cliff	22	1
Wagner	005-0078	Constellation Power - Riverside Generating Station	22	1
Wagner	005-0079	C P Crane Generating Station	22	1
Wagner	005-0146	Diageo North America	311	1

Point Source Growth Factors				
SO <sub>2</sub> NAA	State Facility ID	Facility Name	NAICS	2021 GF
Wagner	005-0236	Schmidt Baking Co	311	1
Wagner	005-0256	Cinder and Concrete Block Corporation	327	1
Wagner	005-0282	Social Security Administration	928	1.031862
Wagner	005-0400	Franklin Square Hospital Center	622	1.08325
Wagner	005-0812	Back River WWTP	562	1.05988
Wagner	005-0979	American Yeast Corporation	311	1
Wagner	005-1040	Crown Food Packaging, USA	332	1.003215
Wagner	005-1484	Lafarge Building Materials, Inc.	327	1
Wagner	005-1809	Maryland Paving Rosedale, LLC	324	1
Wagner	005-2075	Eastern Sanitary Landfill Solid Waste Management Facility	562	1.05988
Wagner	005-2152	Synagro - Pelletech at Back River	562	1.05988
Wagner	005-2196	Roebuck Printing, Inc.	323	1
Wagner	005-2262	Honeygo Run Reclamation Center Rubble Landfill	562	1.05988
Wagner	005-2305	Polystyrene Products	326	1
Wagner	005-2322	Ecca Calcium Products - Imerys	212	1
Wagner	005-2407	Middle River Aircraft Systems	531	1.034922
Wagner	005-2436	Maryland Paving - Texas Quarry	324	1
Wagner	005-2581	Eastern Landfill Gas, LLC	22	1
Wagner	005-2589	Fritz Enterprises, Inc.	331	1
Wagner	005-2684	MANN-PAK, Inc.	323	1
Wagner	005-2696	Benjer Inc.	212	1

## 1.4 QUASI-POINT SOURCES

Quasi-point sources will include all emissions at the facility regardless of whether they are classified as point, area, nonroad, or mobile source emissions. These emissions are actual emissions reported for the facilities. Actual emissions will be forecast to the projection years using surrogates specific to each quasi-point source. The growth factor indicators and their sources are listed below by facility:

**Table 3: Quasi-Point Source Growth Factor**

Quasi-Point Source	Surrogate Growth Indicator	2021 GF
Baltimore Washington International Airport (BWI)	FAA Enplanement Forecasts	1.2278

## 1.5 NONPOINT/AREA SOURCES

Area source projections are typically made using local information and/or growth surrogates. The effects of any control measures to be implemented between the base and projection years are then applied (e.g., using an estimate of control efficiency, rule penetration, and rule effectiveness). Projection methods are described below.

For all sources emissions will be projected by multiplying the base year emission rates by the surrogate activity indicator growth factors. Surrogate activity indicators for each area source category are shown in the table below.

**Table 4: NonPoint/Area Source Growth Factors**

Source Category	Surrogate Growth Indicator
<b>Fire Sources</b>	
Forest Fires	NG
Slash Burning	NG
Prescribed Burning	NG
Structure Fires	POP
<b>Small Stationary Source Fuel Combustion</b>	
Commercial/Institutional Coal Combustion	EMP
Commercial/Institutional Kerosene Combustion	EMP
Commercial/Institutional Distillate Oil Combustion	EMP
Commercial/Institutional Residual Oil Combustion	EMP
Commercial/Institutional LPG Combustion	EMP
Commercial/Institutional Natural Gas Combustion	EMP
Residential Coal Combustion	HSE
Residential Kerosene Combustion	HSE
Residential Distillate Oil Combustion	HSE
Residential Natural Gas Combustion	HSE
Residential LPG Combustion	HSE
Residential Wood Combustion	HSE
Industrial Distillate Oil Combustion	EMP
Industrial Residual Oil Combustion	EMP
<b>Solid Waste Treatment, Disposal, and Recovery</b>	
Incinerators	NG
Open Burning – Land Clearing Debris	HSE
Open Burning – Residential Municipal Solid Waste	HSE
Open Burning – Residential Brush Debris	HSE
Open Burning – Residential Leaf Debris	HSE
<b>Nonroad Sources (Outside NONROAD Model)</b>	
Military Aircraft	FAA

Source Category	Surrogate Growth Indicator
General Aviation Aircraft	FAA
Air Taxi Aviation Aircraft	FAA
Marine Vessels	NG
Railroad Engines	NG

## Appendix A-3 - Sulfur Dioxide Point Source Inventory

## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24003	003-0023	Valley Proteins, Inc.	003-0023-4-0654	10200602	SO2	0.01935	311	1	0.01935
2014	24003	003-0023	Valley Proteins, Inc.	003-0023-4-0654	10201302	SO2	0.05	311	1	0.05
		<b>003-0023 Total</b>					0.06935			0.06935
2014	24003	003-0033	Jessup Correctional Institute	003-0033-5-0404	10300602	SO2	0.0239524	922	1.002228	0.024005755
2014	24003	003-0033	Jessup Correctional Institute	003-0033-5-0492	10300502	SO2	0.3588408	922	1.002228	0.359640134
2014	24003	003-0033	Jessup Correctional Institute	003-0033-5-0492	10300602	SO2	0.00535	922	1.002228	0.005361917
2014	24003	003-0033	Jessup Correctional Institute	003-0033-5-0493	10300602	SO2	0.0198143	922	1.002228	0.019858437
2014	24003	003-0033	Jessup Correctional Institute	003-0033-5-0494	10300502	SO2	0.6027696	922	1.002228	0.604112297
2014	24003	003-0033	Jessup Correctional Institute	003-0033-5-0494	10300602	SO2	0.0003687	922	1.002228	0.000369521
		<b>003-0033 Total</b>					1.0110958			1.013348062
2014	24003	003-0043	Reliable Contracting Company, Inc.	003-0043-6-0080	30500201	SO2	0.009266	324	1	0.009266
2014	24003	003-0043	Reliable Contracting Company, Inc.	003-0043-6-0866	30500205	SO2	0.6315636	324	1	0.6315636
		<b>003-0043 Total</b>					0.6408296			0.6408296
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-5-0378	10200602	SO2	0.0041	325	1	0.0041
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-5-0412	10200602	SO2	0.0319325	325	1	0.0319325
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-6-0288	30199998	SO2	0.013122	325	1	0.013122
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-6-0288	30199998	SO2	0.013122	325	1	0.013122
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-6-0288	30199998	SO2	0.013122	325	1	0.013122
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0407	30199998	SO2	0.000436	325	1	0.000436
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0407	30199998	SO2	0.000436	325	1	0.000436
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0408	30199998	SO2	0.002416	325	1	0.002416
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0410	30199998	SO2	0.002205	325	1	0.002205
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0411	30199998	SO2	0.000038	325	1	0.000038
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0411	30199998	SO2	0.000038	325	1	0.000038
2014	24003	003-0056	Erachem Comilog, Inc	003-0056-7-0411	30199998	SO2	0.000038	325	1	0.000038
		<b>003-0056 Total</b>					0.1003335			0.1003335
2014	24003	003-0060	Reliable Contracting Company, Inc.	003-0060-6-1093	30500205	SO2	0.1858355	324	1	0.1858355
		<b>003-0060 Total</b>					0.1858355			0.1858355
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0287	10200603	SO2	0.0010404	326	1	0.0010404
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0458	10200603	SO2	0.001274	326	1	0.001274
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0459	10200603	SO2	0.0004368	326	1	0.0004368
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0460	10200603	SO2	0.0003094	326	1	0.0003094
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0461	10200603	SO2	0.0007735	326	1	0.0007735
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0462	10200603	SO2	0.00091	326	1	0.00091
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0463	10200603	SO2	0.0005915	326	1	0.0005915
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0464	10200603	SO2	0.0004732	326	1	0.0004732
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0465	10200603	SO2	0.0003094	326	1	0.0003094
2014	24003	003-0118	William T. Burnett and Company	003-0118-5-0697	10300603	SO2	0.002184	326	1	0.002184
		<b>003-0118 Total</b>					0.0083022			0.0083022

## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-4-0284	10300503	SO2	0.00045	488	1.044717	0.000470123
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-4-0285	10300503	SO2	0.00045	488	1.044717	0.000470123
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-4-0867	10500205	SO2	0.00145	488	1.044717	0.00151484
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0681	10200502	SO2	0.0032	488	1.044717	0.003343096
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0681	10200602	SO2	0.018	488	1.044717	0.018804915
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0682	10200502	SO2	0.0032	488	1.044717	0.003343096
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0682	10200602	SO2	0.018	488	1.044717	0.018804915
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0683	10200502	SO2	0.0014	488	1.044717	0.001462604
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0683	10200602	SO2	0.00675	488	1.044717	0.007051843
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0769	10200603	SO2	0.0005382	488	1.044717	0.000562267
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0770	10200603	SO2	0.0005382	488	1.044717	0.000562267
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0771	10200603	SO2	0.001743	488	1.044717	0.001820943
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0772	10200603	SO2	0.001743	488	1.044717	0.001820943
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0773	10200603	SO2	0.001743	488	1.044717	0.001820943
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-5-0774	10200603	SO2	0.001743	488	1.044717	0.001820943
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0909	20300101	SO2	0.000756	488	1.044717	0.000789806
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0910	20300101	SO2	0.000273	488	1.044717	0.000285208
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0911	20300101	SO2	0.0001765	488	1.044717	0.000184393
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0912	20300101	SO2	0.0002007	488	1.044717	0.000209675
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0913	20300101	SO2	0.0001602	488	1.044717	0.000167364
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0914	20300101	SO2	0.00026	488	1.044717	0.000271627
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0915	20300101	SO2	0.0000788	488	1.044717	8.23237E-05
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0916	20300101	SO2	0.0001685	488	1.044717	0.000176035
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-0948	20300101	SO2	0.0001862	488	1.044717	0.000194526
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-1030	20300101	SO2	0.0008762	488	1.044717	0.000915381
2014	24003	003-0208	Baltimore Washington International Thurgood Marshall Airport	003-0208-9-1070	20100102	SO2	0.0003753	488	1.044717	0.000392082
		<b>003-0208 Total</b>					0.0644598			0.067342281
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-5-0438	10200602	SO2	0.0112	334	1	0.0112
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-5-0438	10500105	SO2	0.0002052	334	1	0.0002052
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-5-0439	10200501	SO2	0.00198	334	1	0.00198
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-5-0439	10200602	SO2	0.009976	334	1	0.009976
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-5-0444	10200501	SO2	0.0020405	334	1	0.0020405
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-5-0444	10200602	SO2	0.0505925	334	1	0.0505925
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-9-0778	20100102	SO2	0.027625	334	1	0.027625
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-9-0812	20100102	SO2	0.0005215	334	1	0.0005215
2014	24003	003-0250	Northrop Grumman Systems Corporation	003-0250-9-0871	20100102	SO2	0.01408	334	1	0.01408
		<b>003-0250 Total</b>					0.1182207			0.1182207
2014	24003	003-0276	Hi Tech Color Inc	003-0276-5-0308	10200603	SO2	0.000009	325	1	0.000009
		<b>003-0276 Total</b>					0.000009			0.000009

## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-4-0684	10300503	SO2	0.001575	928	1.031862	0.001625183
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-4-0685	10300503	SO2	0.0024235	928	1.031862	0.002500718
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0312	10300402	SO2	0.145962	928	1.031862	0.150612654
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0312	10300602	SO2	0.0365	928	1.031862	0.037662966
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0313	10300502	SO2	0.171448	928	1.031862	0.176910691
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0313	10300602	SO2	0.0293985	928	1.031862	0.030335197
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0631	10300502	SO2	0.003372	928	1.031862	0.003479439
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0631	10300602	SO2	0.01255	928	1.031862	0.012949869
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0736	10300603	SO2	0.000048	928	1.031862	4.95294E-05
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-5-0737	10300603	SO2	0.000048	928	1.031862	4.95294E-05
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-9-0963	20100102	SO2	0.002094	928	1.031862	0.002160719
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-9-0984	20100102	SO2	0.002	928	1.031862	0.002063724
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-9-0985	20100102	SO2	0.003048	928	1.031862	0.003145116
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-9-0986	20100102	SO2	0.0026015	928	1.031862	0.002684389
2014	24003	003-0310	Naval Support Activity Annapolis	003-0310-9-1005	20300101	SO2	0.000002	928	1.031862	2.06372E-06
		<b>003-0310 Total</b>					0.4130705			0.426231787
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-4-0824	10300502	SO2	0.001095	926	1	0.001095
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-4-0824	10300602	SO2	0.0001825	926	1	0.0001825
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-5-0277	10300603	SO2	0.0005475	926	1	0.0005475
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-5-0497	10300502	SO2	0.8024525	926	1	0.8024525
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-5-0497	10300602	SO2	0.002555	926	1	0.002555
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-9-0889	20100202	SO2	0.0180675	926	1	0.0180675
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-9-0890	20100802	SO2	0.2279425	926	1	0.2279425
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-9-0891	20100802	SO2	0.2370675	926	1	0.2370675
2014	24003	003-0316	US Coast Guard Yard (USCG Yard)	003-0316-9-0892	20100802	SO2	0.04307	926	1	0.04307
		<b>003-0316 Total</b>					1.33298			1.33298



## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24003	003-0317	National Security Agency	003-0317-5-0502	10200502	SO2	1.10612	928	1.031862	1.141363289
2014	24003	003-0317	National Security Agency	003-0317-5-0502	10300602	SO2	0.40906	928	1.031862	0.422093504
2014	24003	003-0317	National Security Agency	003-0317-5-0503	10200502	SO2	0.46694	928	1.031862	0.481817682
2014	24003	003-0317	National Security Agency	003-0317-5-0503	10300602	SO2	0.41808	928	1.031862	0.4314009
2014	24003	003-0317	National Security Agency	003-0317-5-0504	10200502	SO2	0.438435	928	1.031862	0.452404453
2014	24003	003-0317	National Security Agency	003-0317-5-0504	10300602	SO2	0.17754	928	1.031862	0.183196794
2014	24003	003-0317	National Security Agency	003-0317-5-0505	10200502	SO2	1.063635	928	1.031862	1.097524628
2014	24003	003-0317	National Security Agency	003-0317-5-0505	10300602	SO2	0.957	928	1.031862	0.987492015
2014	24003	003-0317	National Security Agency	003-0317-5-0644	10300603	SO2	0.0511	928	1.031862	0.052728153
2014	24003	003-0317	National Security Agency	003-0317-5-0645	10300603	SO2	0.00365	928	1.031862	0.003766297
2014	24003	003-0317	National Security Agency	003-0317-5-0725	10300603	SO2	0.00091	928	1.031862	0.000938994
2014	24003	003-0317	National Security Agency	003-0317-5-0726	10300603	SO2	0.00123	928	1.031862	0.00126919
2014	24003	003-0317	National Security Agency	003-0317-5-0727	10300603	SO2	0.000655	928	1.031862	0.00067587
2014	24003	003-0317	National Security Agency	003-0317-5-0728	10300603	SO2	0.00039	928	1.031862	0.000402426
2014	24003	003-0317	National Security Agency	003-0317-9-0442	20300102	SO2	0.00132	928	1.031862	0.001362058
2014	24003	003-0317	National Security Agency	003-0317-9-0679	20300101	SO2	0.002	928	1.031862	0.002063724
2014	24003	003-0317	National Security Agency	003-0317-9-0680	20300101	SO2	0.002	928	1.031862	0.002063724
2014	24003	003-0317	National Security Agency	003-0317-9-0682	20300101	SO2	0.002	928	1.031862	0.002063724
2014	24003	003-0317	National Security Agency	003-0317-9-0683	20300101	SO2	0.003	928	1.031862	0.003095586
2014	24003	003-0317	National Security Agency	003-0317-9-0684	20300101	SO2	0.002	928	1.031862	0.002063724
2014	24003	003-0317	National Security Agency	003-0317-9-0685	20300101	SO2	0.003	928	1.031862	0.003095586
2014	24003	003-0317	National Security Agency	003-0317-9-0686	20300101	SO2	0.003	928	1.031862	0.003095586
2014	24003	003-0317	National Security Agency	003-0317-9-0687	20300102	SO2	0.01653	928	1.031862	0.01705668
2014	24003	003-0317	National Security Agency	003-0317-9-0688	20300102	SO2	0.0231	928	1.031862	0.023836014
2014	24003	003-0317	National Security Agency	003-0317-9-0689	20300102	SO2	0.0231	928	1.031862	0.023836014
2014	24003	003-0317	National Security Agency	003-0317-9-0690	20300102	SO2	0.0231	928	1.031862	0.023836014
2014	24003	003-0317	National Security Agency	003-0317-9-0691	20300102	SO2	0.0021	928	1.031862	0.00216691
2014	24003	003-0317	National Security Agency	003-0317-9-0692	20300102	SO2	0.00216	928	1.031862	0.002228822
2014	24003	003-0317	National Security Agency	003-0317-9-0804	20100102	SO2	0.0021	928	1.031862	0.00216691
2014	24003	003-0317	National Security Agency	003-0317-9-0805	20100102	SO2	0.002015	928	1.031862	0.002079202
2014	24003	003-0317	National Security Agency	003-0317-9-0806	20100102	SO2	0.00138	928	1.031862	0.00142397
2014	24003	003-0317	National Security Agency	003-0317-9-0807	20100102	SO2	0.00294	928	1.031862	0.003033675
		<b>003-0317 Total</b>					5.21159			5.37764212

## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-4-0687	10300503	SO2	0.0025725	928	1.031862	0.002654465
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-4-0687	10300603	SO2	0.0019845	928	1.031862	0.00204773
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0487	10300603	SO2	0.0252	928	1.031862	0.026002925
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0713	10300603	SO2	0.0012915	928	1.031862	0.00133265
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0714	10300603	SO2	0.0012915	928	1.031862	0.00133265
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0715	10300603	SO2	0.0012915	928	1.031862	0.00133265
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0716	10300603	SO2	0.0012915	928	1.031862	0.00133265
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0720	10300603	SO2	0.0002468	928	1.031862	0.000254664
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0721	10300603	SO2	0.0002468	928	1.031862	0.000254664
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0722	10300603	SO2	0.0002468	928	1.031862	0.000254664
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0723	10300603	SO2	0.0002468	928	1.031862	0.000254664
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0724	10300603	SO2	0.0002468	928	1.031862	0.000254664
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0733	10300603	SO2	0.0007161	928	1.031862	0.000738916
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0734	10300603	SO2	0.0007161	928	1.031862	0.000738916
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0735	10300603	SO2	0.0007161	928	1.031862	0.000738916
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-5-0761	10500206	SO2	0.01743	928	1.031862	0.017985356
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-0965	20100107	SO2	0.06604	928	1.031862	0.068144172
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-0992	20100107	SO2	0.01352	928	1.031862	0.013950775
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1002	20100102	SO2	0.08268	928	1.031862	0.085314357
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1003	20100102	SO2	0.08086	928	1.031862	0.083436368
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1004	20100102	SO2	0.06422	928	1.031862	0.066266183
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1007	20100102	SO2	0.025454	928	1.031862	0.026265017
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1008	20100102	SO2	0.025272	928	1.031862	0.026077219
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1009	20100102	SO2	0.024986	928	1.031862	0.025782106
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1095	20300107	SO2	0	928	1.031862	0
2014	24003	003-0322	Fort George G. Meade, Dept. of the Army	003-0322-9-1096	20300107	SO2	0.004758	928	1.031862	0.0049096
		<b>003-0322 Total</b>					0.4435253			0.457656941
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-3-0003	10100215	SO2	7,276.12	22	1	7276.124945
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-3-0015	10100202	SO2	1,669.90	22	1	1669.899789
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-3-0016	10100202	SO2	1,475.19	22	1	1475.187221
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-3-0017	10100202	SO2	1,938.99	22	1	1938.990367
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-4-0007	20100101	SO2	1.632	22	1	1.632
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-4-0017	10100401	SO2	322.53	22	1	322.5257685
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-4-0507	10100504	SO2	0.00023	22	1	0.00023
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-5-0489	10100601	SO2	72.62	22	1	72.6181055
2014	24003	003-0468	Fort Smallwood Road Complex	003-0468-9-0988	20200102	SO2	0.003	22	1	0.003
		<b>003-0468 Total</b>					12756.98142			12756.98142
2014	24003	003-0548	Lafarge Mid-Atlantic, LLC - Jessup Plant	003-0548-6-0951	10300601	SO2	0.0028753	327	1	0.0028753
		<b>003-0548 Total</b>					0.0028753			0.0028753
2014	24003	003-0826	Aggregate Industries - Severn Asphalt	003-0826-6-0926	30500205	SO2	0.21412	324	1	0.21412
2014	24003	003-0826	Aggregate Industries - Severn Asphalt	003-0826-6-1188	30504030	SO2	0.06596	324	1	0.06596
		<b>003-0826 Total</b>					0.28008			0.28008
2014	24003	003-0886	Millersville Landfill & Resource Recovery Facility	003-0886-9-0921	20300101	SO2	0.12225	562	1.05988	0.129570299
2014	24003	003-0886	Millersville Landfill & Resource Recovery Facility	003-0886-9-1038	50200601	SO2	0.129978	562	1.05988	0.13776105
		<b>003-0886 Total</b>					0.252228			0.26733135

## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24003	003-0984	National Security Agency Fanx III	003-0984-5-0633	10300603	SO2	0.00091	928	1.031862	0.000938994
2014	24003	003-0984	National Security Agency Fanx III	003-0984-5-0634	10300603	SO2	0.000675	928	1.031862	0.000696507
2014	24003	003-0984	National Security Agency Fanx III	003-0984-5-0635	10300602	SO2	0.000265	928	1.031862	0.000273443
2014	24003	003-0984	National Security Agency Fanx III	003-0984-5-0636	10300602	SO2	0.000545	928	1.031862	0.000562365
2014	24003	003-0984	National Security Agency Fanx III	003-0984-9-0615	20300101	SO2	0.01001	928	1.031862	0.010328939
		<b>003-0984 Total</b>					0.012405			0.012800249
2014	24003	003-1460	Allan Myers Materials-Jessup (RAP)	003-1460-6-1178	30502099	SO2	0.02739	324	1	0.02739
		<b>003-1460 Total</b>					0.02739			0.02739
2014	24003	003-1471	Millersville Landfill Gas to Electric Project	003-1471-9-1034	20100802	SO2	2.50025	562	1.05988	2.649964344
		<b>003-1471 Total</b>					2.50025			2.649964344
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1537	10300602	SO2	0.01727	61	1.160557	0.020042818
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1637	10300602	SO2	0.01462	61	1.160557	0.016967342
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1709	10300603	SO2	0.0027875	61	1.160557	0.003235052
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1711	10300502	SO2	0.15999	61	1.160557	0.185677499
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1711	10300602	SO2	0.0054385	61	1.160557	0.006311689
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1712	10300602	SO2	0.00245	61	1.160557	0.002843364
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1743	10300603	SO2	0.000663	61	1.160557	0.000769449
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1744	10300603	SO2	0.0011858	61	1.160557	0.001376188
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1745	10300603	SO2	0.0002197	61	1.160557	0.000254974
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1746	10300603	SO2	0.000329	61	1.160557	0.000381823
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-1747	10300603	SO2	0.0001075	61	1.160557	0.00012476
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-2279	10300502	SO2	1.098755	61	1.160557	1.275167701
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-5-2279	10300603	SO2	0.0305625	61	1.160557	0.03546952
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-9-1366	20300107	SO2	0.007794	61	1.160557	0.009045381
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-9-1368	20300107	SO2	0.00189	61	1.160557	0.002193453
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-9-1369	20300107	SO2	0.004854	61	1.160557	0.005633343
2014	24005	005-0002	University Of Maryland - Baltimore County	005-0002-9-1370	20300107	SO2	0.007524	61	1.160557	0.00873203
		<b>005-0002 Total</b>					1.3564405			1.574226387
2014	24005	005-0003	Bluegrass Materials Texas Quarry	005-0003-4-2027	10300501	SO2	0.2742	212	1	0.2742
		<b>005-0003 Total</b>					0.2742			0.2742
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-1150	10300603	SO2	0.0005055	622	1.08325	0.000547583
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-1151	10300603	SO2	0.0005055	622	1.08325	0.000547583
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-1920	10300603	SO2	0.0006242	622	1.08325	0.000676165
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2114	10500205	SO2	0.00143	622	1.08325	0.001549047
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2114	10500206	SO2	0.01825	622	1.08325	0.019769311
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2124	10500205	SO2	0.00143	622	1.08325	0.001549047
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2124	10500206	SO2	0.01825	622	1.08325	0.019769311
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2125	10500205	SO2	0.00143	622	1.08325	0.001549047
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2125	10500206	SO2	0.01825	622	1.08325	0.019769311
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2148	10300603	SO2	0.0004106	622	1.08325	0.000444782
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-5-2149	10300603	SO2	0.0004106	622	1.08325	0.000444782
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-9-0915	20300102	SO2	0	622	1.08325	0
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-9-1359	20200102	SO2	0.0001547	622	1.08325	0.000167579
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-9-1380	20200102	SO2	0.000112	622	1.08325	0.000121324
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-9-1393	20100102	SO2	0.0007326	622	1.08325	0.000793589
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-9-1427	20100102	SO2	0.00171	622	1.08325	0.001852357
2014	24005	005-0039	Greater Baltimore Medical Center	005-0039-9-1428	20100102	SO2	0.0019035	622	1.08325	0.002061966
		<b>005-0039 Total</b>					0.0661092			0.071612786

## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1094	20100201	SO2	0.00255	22	1	0.00255
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1095	20100201	SO2	0.00495	22	1	0.00495
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1096	20100201	SO2	0.0051	22	1	0.0051
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1097	20100201	SO2	0.0051	22	1	0.0051
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1098	20100201	SO2	0.00105	22	1	0.00105
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1099	20100201	SO2	0.007	22	1	0.007
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1100	20100201	SO2	0.0068	22	1	0.0068
2014	24005	005-0076	Constellation Power - Notch Cliff	005-0076-9-1101	20100201	SO2	0.006	22	1	0.006
		<b>005-0076 Total</b>					0.03855			0.03855
2014	24005	005-0078	Constellation Power - Riverside Generating Station	005-0078-4-0658	10100504	SO2	0.297	22	1	0.297
2014	24005	005-0078	Constellation Power - Riverside Generating Station	005-0078-4-0659	10100504	SO2	0.341	22	1	0.341
2014	24005	005-0078	Constellation Power - Riverside Generating Station	005-0078-4-1082	10100601	SO2	0.064	22	1	0.064
2014	24005	005-0078	Constellation Power - Riverside Generating Station	005-0078-4-1363	10100601	SO2	1.122	22	1	1.122
		<b>005-0078 Total</b>					1.824			1.824
2014	24005	005-0079	C P Crane Generating Station	005-0079-3-0108	10100203	SO2	573.38	22	1	573.3757465
2014	24005	005-0079	C P Crane Generating Station	005-0079-3-0109	10100203	SO2	1,313.78	22	1	1313.780362
2014	24005	005-0079	C P Crane Generating Station	005-0079-4-0089	10100504	SO2	1.5875	22	1	1.5875
2014	24005	005-0079	C P Crane Generating Station	005-0079-4-0091	10100504	SO2	0.8375	22	1	0.8375
2014	24005	005-0079	C P Crane Generating Station	005-0079-4-1107	10100504	SO2	0.621	22	1	0.621
		<b>005-0079 Total</b>					1890.202109			1890.202109
2014	24005	005-0146	Diageo North America	005-0146-5-1739	10200502	SO2	0.00825	311	1	0.00825
2014	24005	005-0146	Diageo North America	005-0146-5-1739	10300602	SO2	0.005355	311	1	0.005355
2014	24005	005-0146	Diageo North America	005-0146-5-1740	10300602	SO2	0.00049	311	1	0.00049
		<b>005-0146 Total</b>					0.014095			0.014095
2014	24005	005-0167	Bluegrass Materials Company, LLC - Marriottsville Quarry	005-0167-6-3084	30599999	SO2	1.1419375	327	1	1.1419375
		<b>005-0167 Total</b>					1.1419375			1.1419375
2014	24005	005-0184	Noxell Corporation	005-0184-5-1478	10200602	SO2	0.0011004	325	1	0.0011004
2014	24005	005-0184	Noxell Corporation	005-0184-5-1633	10200602	SO2	0.0138073	325	1	0.0138073
		<b>005-0184 Total</b>					0.0149077			0.0149077
2014	24005	005-0236	Schmidt Baking Co	005-0236-5-0945	10200603	SO2	0.00182	311	1	0.00182
2014	24005	005-0236	Schmidt Baking Co	005-0236-5-0946	10200603	SO2	0.00183	311	1	0.00183
2014	24005	005-0236	Schmidt Baking Co	005-0236-8-0163	30203201	SO2	0.00936	311	1	0.00936
2014	24005	005-0236	Schmidt Baking Co	005-0236-8-0213	30203201	SO2	0.00468	311	1	0.00468
		<b>005-0236 Total</b>					0.01769			0.01769
2014	24005	005-0256	Cinder and Concrete Block Corporation	005-0256-5-1232	10200602	SO2	0.00228	327	1	0.00228
2014	24005	005-0256	Cinder and Concrete Block Corporation	005-0256-6-0837	30500609	SO2	0.00756	327	1	0.00756
		<b>005-0256 Total</b>					0.00984			0.00984
2014	24005	005-0282	Social Security Administration	005-0282-5-2302	10300602	SO2	0.01825	928	1.031862	0.018831483
2014	24005	005-0282	Social Security Administration	005-0282-9-1180	28888801	SO2	0.143	928	1.031862	0.147556278
2014	24005	005-0282	Social Security Administration	005-0282-9-1180	28888801	SO2	0.143	928	1.031862	0.147556278
2014	24005	005-0282	Social Security Administration	005-0282-9-1181	20300102	SO2	0.0442	928	1.031862	0.045608304
2014	24005	005-0282	Social Security Administration	005-0282-9-1181	20300102	SO2	0.0442	928	1.031862	0.045608304
2014	24005	005-0282	Social Security Administration	005-0282-9-1182	30113210	SO2	0.1456	928	1.031862	0.150239119
2014	24005	005-0282	Social Security Administration	005-0282-9-1182	30113210	SO2	0.1456	928	1.031862	0.150239119
2014	24005	005-0282	Social Security Administration	005-0282-9-1362	20100107	SO2	0.0026	928	1.031862	0.002682841
2014	24005	005-0282	Social Security Administration	005-0282-9-1363	20100107	SO2	0.0026	928	1.031862	0.002682841
2014	24005	005-0282	Social Security Administration	005-0282-9-1436	20300107	SO2	0.0026	928	1.031862	0.002682841
		<b>005-0282 Total</b>					0.69165			0.713687411

## Point Sources

Year	State	County	FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014			24005	005-0400	Franklin Square Hospital Center	005-0400-5-2236	10300602	SO2	0.0146	622	1.08325	0.015815449
2014			24005	005-0400	Franklin Square Hospital Center	005-0400-5-2237	10300602	SO2	0.0146	622	1.08325	0.015815449
2014			24005	005-0400	Franklin Square Hospital Center	005-0400-5-2238	10300602	SO2	0.0146	622	1.08325	0.015815449
2014			24005	005-0400	Franklin Square Hospital Center	005-0400-9-1376	20300101	SO2	0.0003919	622	1.08325	0.000424526
2014			24005	005-0400	Franklin Square Hospital Center	005-0400-9-1377	20300101	SO2	0.0002992	622	1.08325	0.000324108
2014			24005	005-0400	Franklin Square Hospital Center	005-0400-9-1378	20300101	SO2	0.00038	622	1.08325	0.000411635
				<b>005-0400 Total</b>					0.0448711			0.048606616
2014			24005	005-0812	Back River WWTP	005-0812-5-0511	10300602	SO2	0.0266175	562	1.05988	0.028211349
2014			24005	005-0812	Back River WWTP	005-0812-5-1426	10300799	SO2	0.043489	562	1.05988	0.04609311
2014			24005	005-0812	Back River WWTP	005-0812-5-1431	10300799	SO2	0.016512	562	1.05988	0.017500734
2014			24005	005-0812	Back River WWTP	005-0812-5-1439	10300799	SO2	0.0318155	562	1.05988	0.033720604
2014			24005	005-0812	Back River WWTP	005-0812-5-2255	10300603	SO2	0.000265	562	1.05988	0.000280868
2014			24005	005-0812	Back River WWTP	005-0812-9-1317	20100702	SO2	0.0112095	562	1.05988	0.011880722
2014			24005	005-0812	Back River WWTP	005-0812-9-1319	20100702	SO2	0.009928	562	1.05988	0.010522486
2014			24005	005-0812	Back River WWTP	005-0812-9-1320	20100702	SO2	0.0081915	562	1.05988	0.008682005
				<b>005-0812 Total</b>					0.148028			0.15689188
2014			24005	005-0979	American Yeast Corporation	005-0979-5-1513	10200503	SO2	0.883025	311	1	0.883025
2014			24005	005-0979	American Yeast Corporation	005-0979-5-1853	10300503	SO2	0.00288	311	1	0.00288
2014			24005	005-0979	American Yeast Corporation	005-0979-5-1853	10300603	SO2	2.326025	311	1	2.326025
2014			24005	005-0979	American Yeast Corporation	005-0979-8-0301	50382599	SO2	0.62835	311	1	0.62835
				<b>005-0979 Total</b>					3.84028			3.84028
2014			24005	005-1040	Crown Food Packaging, USA	005-1040-6-1585	40201735	SO2	0.0146625	332	1.003215	0.014709641
2014			24005	005-1040	Crown Food Packaging, USA	005-1040-6-2655	10200603	SO2	0.002295	332	1.003215	0.002302379
				<b>005-1040 Total</b>					0.0169575			0.017012019
2014			24005	005-1149	Gamse Lithographing Company	005-1149-9-0159	40500511	SO2	0.0013	323	1	0.0013
				<b>005-1149 Total</b>					0.0013			0.0013

## Point Sources

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## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24005	005-1809	Maryland Paving Rosedale, LLC	005-1809-6-3024	30500205	SO2	0.38335	324	1	0.38335
2014	24005	005-1809	Maryland Paving Rosedale, LLC	005-1809-6-3025	30502006	SO2	0.57227	324	1	0.57227
2014	24005	005-1809	Maryland Paving Rosedale, LLC	005-1809-6-3069	10200603	SO2	0.0049275	324	1	0.0049275
		<b>005-1809 Total</b>					0.9605475			0.9605475
2014	24005	005-2075	Eastern Sanitary Landfill Solid Waste Management Facility	005-2075-6-2824	20100102	SO2	0	562	1.05988	0
2014	24005	005-2075	Eastern Sanitary Landfill Solid Waste Management Facility	005-2075-9-1020	50200601	SO2	0.366825	562	1.05988	0.388790389
2014	24005	005-2075	Eastern Sanitary Landfill Solid Waste Management Facility	005-2075-9-1438	20200102	SO2	0.050655	562	1.05988	0.053688209
		<b>005-2075 Total</b>					0.41748			0.442478598
2014	24005	005-2152	Synagro - Pelletech at Back River	005-2152-6-1849	39990003	SO2	0.0584	562	1.05988	0.061896977
		<b>005-2152 Total</b>					0.0584			0.061896977
2014	24005	005-2196	Roebuck Printing, Inc.	005-2196-6-2780	40500421	SO2	0.000771	323	1	0.000771
2014	24005	005-2196	Roebuck Printing, Inc.	005-2196-6-2934	40500401	SO2	0.0006524	323	1	0.0006524
		<b>005-2196 Total</b>					0.0014234			0.0014234
2014	24005	005-2262	Honeygo Run Reclamation Center Rubble Landfill	005-2262-6-2717	30502001	SO2	0.150255	562	1.05988	0.159252232
2014	24005	005-2262	Honeygo Run Reclamation Center Rubble Landfill	005-2262-6-3029	30504034	SO2	0.03268	562	1.05988	0.03463687
2014	24005	005-2262	Honeygo Run Reclamation Center Rubble Landfill	005-2262-6-3030	30504034	SO2	0.017885	562	1.05988	0.018955949
		<b>005-2262 Total</b>					0.20082			0.212845051
2014	24005	005-2305	Polystyrene Products	005-2305-5-1610	10200603	SO2	0.001765	326	1	0.001765
2014	24005	005-2305	Polystyrene Products	005-2305-5-1644	10200603	SO2	0.00167	326	1	0.00167
		<b>005-2305 Total</b>					0.003435			0.003435
2014	24005	005-2322	Ecce Calcium Products - Imerys	005-2322-6-2185	30504031	SO2	0.181168	212	1	0.181168
2014	24005	005-2322	Ecce Calcium Products - Imerys	005-2322-6-2188	30504099	SO2	0.041884	212	1	0.041884
2014	24005	005-2322	Ecce Calcium Products - Imerys	005-2322-6-2189	30504021	SO2	0.03575	212	1	0.03575
		<b>005-2322 Total</b>					0.258802			0.258802
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1259	10300603	SO2	0.000819	531	1.034922	0.000847601
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1261	10300603	SO2	0.000546	531	1.034922	0.000565068
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1262	10300603	SO2	0.000546	531	1.034922	0.000565068
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1263	10300603	SO2	0.000819	531	1.034922	0.000847601
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1466	10300603	SO2	0.001365	531	1.034922	0.001412669
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1467	10300603	SO2	0.001365	531	1.034922	0.001412669
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1468	10300603	SO2	0.001365	531	1.034922	0.001412669
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1469	10300603	SO2	0.001365	531	1.034922	0.001412669
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1577	10300603	SO2	0.000546	531	1.034922	0.000565068
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1579	10300603	SO2	0.000546	531	1.034922	0.000565068
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-1657	10300603	SO2	0.004914	531	1.034922	0.005085608
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-2222	10300603	SO2	0.001365	531	1.034922	0.001412669
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-2300	10300603	SO2	0.0006825	531	1.034922	0.000706334
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-2320	10300603	SO2	0.001365	531	1.034922	0.001412669
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-5-2321	10300603	SO2	0.0006825	531	1.034922	0.000706334
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-6-2441	39000699	SO2	0.00039	531	1.034922	0.00040362
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-6-2499	39000699	SO2	0.000945	531	1.034922	0.000978002
2014	24005	005-2407	Middle River Aircraft Systems	005-2407-6-2900	40200101	SO2	0.0036	531	1.034922	0.00372572
		<b>005-2407 Total</b>					0.023226			0.024037105
2014	24005	005-2436	Maryland Paving - Texas Quarry	005-2436-5-2342	10300603	SO2	0.0040905	324	1	0.0040905
2014	24005	005-2436	Maryland Paving - Texas Quarry	005-2436-6-2595	30500205	SO2	0.379665	324	1	0.379665
2014	24005	005-2436	Maryland Paving - Texas Quarry	005-2436-6-3076	30500204	SO2	0.142945	324	1	0.142945
2014	24005	005-2436	Maryland Paving - Texas Quarry	005-2436-6-3077	30500204	SO2	0.42757	324	1	0.42757
		<b>005-2436 Total</b>					0.9542705			0.9542705



## Point Sources

Year	State County FIPS	facility ID	facility name	unit reg number	SCC	Pollutant Code	Annual Emissions (Tons/Yr)	NAICS	2021 GF	2021 Uncontrolled EM (tpy)
2014	24005	005-2581	Eastern Landfill Gas, LLC	005-2581-9-1278	20100102	SO2	0.01095	22	1	0.01095
2014	24005	005-2581	Eastern Landfill Gas, LLC	005-2581-9-1279	20100102	SO2	0.005475	22	1	0.005475
2014	24005	005-2581	Eastern Landfill Gas, LLC	005-2581-9-1280	20100102	SO2	0.012775	22	1	0.012775
		<b>005-2581 Total</b>					0.0292			0.0292
2014	24005	005-2589	Fritz Enterprises, Inc.	005-2589-6-2880	30599999	SO2	0.9997	331	1	0.9997
		<b>005-2589 Total</b>					0.9997			0.9997
2014	24005	005-2684	MANN-PAK, Inc.	005-2684-6-1459	40500301	SO2	0.000025	323	1	0.000025
2014	24005	005-2684	MANN-PAK, Inc.	005-2684-6-2967	40500301	SO2	0.000325	323	1	0.000325
		<b>005-2684 Total</b>					0.00035			0.00035
2014	24005	005-2696	Benjer Inc.	005-2696-6-3060	30502001	SO2	0.29355	212	1	0.29355
		<b>005-2696 Total</b>					0.29355			0.29355
		<b>Grand Total</b>					14675.76297			14676.42598



## Appendix A-4: Quasi-Point Source Inventory

Year	State Facility Identifier	Facility Name	State County FIPs	SCC	Emission Process Description	Activity Data Source	Source	SOX	GF_2014-2021	SOX 2021
2014	003-0208	BWI	24003		Parking Facilities	MAA Plane	MOBILE	0.007667	1.227755	0.0094132
2014	003-0208	BWI	24003	10200502	Boiler stack	Point Source	POINT	0.007800	1.227755	0.00957649
2014	003-0208	BWI	24003	10200602	Boiler stack	Point Source	POINT	0.042750	1.227755	0.05248653
2014	003-0208	BWI	24003	10200603	5-0769	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	10200603	5-0770	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	10200603	5-0771	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	10200603	5-0772	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	10200603	5-0773	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	10200603	5-0774	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	10200603	Boilers	Point Source	POINT	0.008048	1.227755	0.00988146
2014	003-0208	BWI	24003	10300503	Permitted Point Source	Point Source	POINT	0.000900	1.227755	0.00110498
2014	003-0208	BWI	24003	10500205	boiler stack at bldg 123	Point Source	POINT	0.001450	1.227755	0.00178025
2014	003-0208	BWI	24003	20100102	900-XC6DT2 emergency generator	Point Source	POINT	0.000375	1.227755	0.00046078
2014	003-0208	BWI	24003	20300101	410 kW standby generator stack	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	500 kW standby generator stack	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	505 kW standby generator stack	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	600 kW standby generator stack	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	600 kW standby generator stack terminal roof	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	750 kW standby generator stack	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	900 kW standby generator stack	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	Diesel Generator Stack	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	Emergency generator	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	Engine stack located at Airfield lighting vault	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	20300101	Permitted Point Source	Point Source	POINT	0.003136	1.227755	0.00385036
2014	003-0208	BWI	24003	40600601	Fugitive	Point Source	POINT		1.227755	0
2014	003-0208	BWI	24003	2201001133	Highway - Gasoline - Light Duty Vehicles (LDGV)	MAA Plane	MOBILE	0.001304	1.227755	0.00160046
2014	003-0208	BWI	24003	2270008005	GSE	MAA Plane	NONROAD	1.827920	1.227755	2.24423855
2014	003-0208	BWI	24003	2275001000	Emissions from military aircraft LTOs	MAA Plane	MAR	2.003359	1.227755	2.45963488
2014	003-0208	BWI	24003	2275020000	Emissions from commercial aircraft LTOs	MAA Plane	MAR	94.250077	1.227755	115.71602
2014	003-0208	BWI	24003	2275050000	Emissions from general aviation aircraft LTOs	MAA Plane	MAR	7.283561	1.227755	8.94242966
2014	003-0208	BWI	24003	2275060000	Emissions from air taxi aircraft LTOs	MAA Plane	MAR	11.424281	1.227755	14.0262196
2014	003-0208	BWI	24003	2275070000	Emissions from aircraft auxiliary power units	MAA Plane	NONROAD	4.825268	1.227755	5.92424772
2014	003-0208	BWI	24003	2810035000	Firefighting Training	MAA Plane	NONROAD	0.010825	1.227755	0.01329003
<b>BWI Total</b>								121.698721		149.416235
<b>Grand Total</b>								121.698721		149.416235

## Appendix A-5: Area/Nonpoint Source Inventory

Year	State County FIPS	SCC	SCC Description	Annual SO2 Emissions (Tons/Yr)	Growth Code	2021 Growth Factor	2021 Emissions
2014	24003	2103002000	Stationary Fuel Comb /Commercial/Institutional /Bituminous/Subbituminous Coal /Total: All Boiler Types	2.622864364	MD_EMP_24000	1.06046	2.781450847
2014	24003	2103004000	Stationary Fuel Comb /Commercial/Institutional /Distillate Oil /Total: Boilers and IC Engines	146.0034988	MD_EMP_24000	1.06046	154.8313214
2014	24003	2103005000	Stationary Fuel Comb /Commercial/Institutional /Residual Oil /Total: All Boiler Types	2.395426397	MD_EMP_24000	1.06046	2.540261278
2014	24003	2103006000	Stationary Fuel Comb /Commercial/Institutional /Natural Gas /Total: Boilers and IC Engines	2.31767327	MD_EMP_24000	1.06046	2.457806956
2014	24003	2103007000	Stationary Fuel Comb /Commercial/Institutional /Liquified Petroleum Gas /Total: All Combustor Types	0.039845294	MD_EMP_24000	1.06046	0.042254463
2014	24003	2103011000	Stationary Fuel Comb /Commercial/Institutional /Kerosene /Total: All Combustor Types	0.542360694	MD_EMP_24000	1.06046	0.575153497
2014	24003	2104002000	Stationary Fuel Comb /Residential /Bituminous/Subbituminous Coal /Total: All Combustor Types	0.214042233	MD_HSE_24003	1.00711	0.215563464
2014	24003	2104004000	Stationary Fuel Comb /Residential /Distillate Oil /Total: All Combustor Types	300.2508801	MD_HSE_24003	1.00711	302.3848086
2014	24003	2104006000	Stationary Fuel Comb /Residential /Natural Gas /Total: All Combustor Types	1.820474465	MD_HSE_24003	1.00711	1.833412853
2014	24003	2104007000	Stationary Fuel Comb /Residential /Liquified Petroleum Gas /Total: All Combustor Types	0.163683417	MD_HSE_24003	1.00711	0.16484674
2014	24003	2104008100	Stationary Fuel Comb /Residential /Wood /Fireplace: general	0.489960113	MD_HSE_24003	1.00711	0.493442333
2014	24003	2104008210	Stationary Fuel Comb /Residential /Wood /Woodstove: fireplace inserts; non-EPA certified	0.195984045	MD_HSE_24003	1.00711	0.197376933
2014	24003	2104008220	Stationary Fuel Comb /Residential /Wood /Woodstove: fireplace inserts; EPA certified; non-catalytic	0.128667786	MD_HSE_24003	1.00711	0.129582248
2014	24003	2104008230	Stationary Fuel Comb /Residential /Wood /Woodstove: fireplace inserts; EPA certified; catalytic	3.75E-02	MD_HSE_24003	1.00711	0.037759066
2014	24003	2104008310	Stationary Fuel Comb /Residential /Wood /Woodstove: freestanding, non-EPA certified	0.523857511	MD_HSE_24003	1.00711	0.527580646
2014	24003	2104008320	Stationary Fuel Comb /Residential /Wood /Woodstove: freestanding, EPA certified, non-catalytic	0.649605676	MD_HSE_24003	1.00711	0.654222522
2014	24003	2104008330	Stationary Fuel Comb /Residential /Wood /Woodstove: freestanding, EPA certified, catalytic	0.433070389	MD_HSE_24003	1.00711	0.436148286
2014	24003	2104008400	Stationary Fuel Comb /Residential /Wood /Woodstove: pellet-fired, general (freestanding or FP insert)	0.177792557	MD_HSE_24003	1.00711	0.179056156
2014	24003	2104008510	Stationary Fuel Comb /Residential /Wood /Furnace: Indoor, cordwood-fired, non-EPA certified	8.05E-02	MD_HSE_24003	1.00711	0.081071358
2014	24003	2104008610	Stationary Fuel Comb /Residential /Wood /Hydronic heater: outdoor	0.420777102	MD_HSE_24003	1.00711	0.423767629
2014	24003	2104008700	Stationary Fuel Comb /Residential /Wood /Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	0.008662591	MD_HSE_24003	1.00711	0.008724157
2014	24003	2104009000	Stationary Fuel Comb /Residential /Firelog /Total: All Combustor Types	0	MD_HSE_24003	1.00711	0
2014	24003	2104011000	Stationary Fuel Comb /Residential /Kerosene /Total: All Heater Types	3.362636301	MD_HSE_24003	1.00711	3.386535068
2014	24003	2601020000	On-site Incineration /Commercial/Institutional /Total	0.00065	NG		0
2014	24003	2610000100	Open Burning /All Categories /Yard Waste - Leaf Species Unspecified	0			0
2014	24003	2610000400	Open Burning /All Categories /Yard Waste - Brush Species Unspecified	0			0
2014	24003	2610000500	Open Burning /All Categories /Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	0			0
2014	24003	2610030000	Open Burning /Residential /Household Waste (use 26-10-000-xxx for Yard Wastes)	0			0
2014	24003	2810001000	Forest Wildfires - Wildfires - Unspecified	0	NG	1.00000	0
2014	24003	2810060100	Cremation /Humans	0.002458	NG	1.00000	0.002458
2014	24003	2810060200	Cremation /Animals	0.000018	NG	1.00000	0.000018
2014	24003	2811015000	Prescribed Forest Burning - Unspecified	0.301831	NG	1.00000	0.301831
<b>24003 Total</b>				463.1847119			474.6864535

Year	State County FIPS	SCC	SCC Description	Annual SO2 Emissions (Tons/Yr)	Growth Code	2021 Growth Factor	2021 Emissions
2014	24005	2103002000	Stationary Fuel Comb /Commercial/Institutional /Bituminous/Subbituminous Coal /Total: All Boiler Types	7.006107773	MD_EMP_24000	1.06046	7.429718694
2014	24005	2103004000	Stationary Fuel Comb /Commercial/Institutional /Distillate Oil /Total: Boilers and IC Engines	153.5903911	MD_EMP_24000	1.06046	162.8769407
2014	24005	2103005000	Stationary Fuel Comb /Commercial/Institutional /Residual Oil /Total: All Boiler Types	2.519901786	MD_EMP_24000	1.06046	2.672262833
2014	24005	2103006000	Stationary Fuel Comb /Commercial/Institutional /Natural Gas /Total: Boilers and IC Engines	3.455398369	MD_EMP_24000	1.06046	3.66432243
2014	24005	2103007000	Stationary Fuel Comb /Commercial/Institutional /Liquified Petroleum Gas /Total: All Combustor Types	1.56E-02	MD_EMP_24000	1.06046	0.016593184
2014	24005	2103011000	Stationary Fuel Comb /Commercial/Institutional /Kerosene /Total: All Combustor Types	0.570543801	MD_EMP_24000	1.06046	0.605040641
2014	24005	2104002000	Stationary Fuel Comb /Residential /Bituminous/Subbituminous Coal /Total: All Combustor Types	1.66758221	MD_HSE_24005	1.00389	1.67406544
2014	24005	2104004000	Stationary Fuel Comb /Residential /Distillate Oil /Total: All Combustor Types	315.853048	MD_HSE_24005	1.00389	317.0810221
2014	24005	2104006000	Stationary Fuel Comb /Residential /Natural Gas /Total: All Combustor Types	4.37922607	MD_HSE_24005	1.00389	4.396251634
2014	24005	2104007000	Stationary Fuel Comb /Residential /Liquified Petroleum Gas /Total: All Combustor Types	0.16014962	MD_HSE_24005	1.00389	0.16077225
2014	24005	2104008100	Stationary Fuel Comb /Residential /Wood /Fireplace: general	0.639705295	MD_HSE_24005	1.00389	0.642192343
2014	24005	2104008210	Stationary Fuel Comb /Residential /Wood /Woodstove: fireplace inserts; non-EPA certified	0.255882118	MD_HSE_24005	1.00389	0.256876937
2014	24005	2104008220	Stationary Fuel Comb /Residential /Wood /Woodstove: fireplace inserts; EPA certified; non-catalytic	0.167992173	MD_HSE_24005	1.00389	0.168645294
2014	24005	2104008230	Stationary Fuel Comb /Residential /Wood /Woodstove: fireplace inserts; EPA certified; catalytic	4.90E-02	MD_HSE_24005	1.00389	0.049141675
2014	24005	2104008310	Stationary Fuel Comb /Residential /Wood /Woodstove: freestanding, non-EPA certified	0.747263004	MD_HSE_24005	1.00389	0.750168214
2014	24005	2104008320	Stationary Fuel Comb /Residential /Wood /Woodstove: freestanding, EPA certified, non-catalytic	0.926638024	MD_HSE_24005	1.00389	0.930240609
2014	24005	2104008330	Stationary Fuel Comb /Residential /Wood /Woodstove: freestanding, EPA certified, catalytic	0.617758595	MD_HSE_24005	1.00389	0.620160319
2014	24005	2104008400	Stationary Fuel Comb /Residential /Wood /Woodstove: pellet-fired, general (freestanding or FP insert)	0.253614384	MD_HSE_24005	1.00389	0.254600387
2014	24005	2104008510	Stationary Fuel Comb /Residential /Wood /Furnace: Indoor, cordwood-fired, non-EPA certified	0.110440696	MD_HSE_24005	1.00389	0.110870068
2014	24005	2104008610	Stationary Fuel Comb /Residential /Wood /Hydronic heater: outdoor	0.745729549	MD_HSE_24005	1.00389	0.748628797
2014	24005	2104008700	Stationary Fuel Comb /Residential /Wood /Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	1.34E-02	MD_HSE_24005	1.00389	0.013420385
2014	24005	2104009000	Stationary Fuel Comb /Residential /Firelog /Total: All Combustor Types	0	MD_HSE_24005	1.00389	0
2014	24005	2104011000	Stationary Fuel Comb /Residential /Kerosene /Total: All Heater Types	3.537371563	MD_HSE_24005	1.00389	3.551124164
2014	24005	2601020000	On-site Incineration /Commercial/Institutional /Total	0			0
2014	24005	2610000100	Open Burning /All Categories /Yard Waste - Leaf Species Unspecified	0			0
2014	24005	2610000400	Open Burning /All Categories /Yard Waste - Brush Species Unspecified	0			0
2014	24005	2610000500	Open Burning /All Categories /Land Clearing Debris (use 28-10-005-000 for Logging Debris Burning)	0			0
2014	24005	2610030000	Open Burning /Residential /Household Waste (use 26-10-000-xxx for Yard Wastes)	0			0
2014	24005	2810001000	Forest Wildfires - Wildfires - Unspecified	0.11787	NG	1.00000	0.11787
2014	24005	2810060100	Cremation /Humans	0.001947	NG	1.00000	0.001947
2014	24005	2811015000	Prescribed Forest Burning - Unspecified	0	NG	1.00000	0
<b>24005 Total</b>				497.402528			508.792876
<b>Grand Total</b>				960.5872399			983.4793295

## Appendix A-6a: Nonroad MOVES Model Inventory (2014)

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24003	2260001010	Off-highway Gasoline, 2-Stroke /Recreational Equipt /Motorcycles: Off-road	SO2	0.013
2014	24003	2260001020	Off-highway Gasoline, 2-Stroke /Recreational Equipt /Snowmobiles	SO2	0.000
2014	24003	2260001030	Off-highway Gasoline, 2-Stroke /Recreational Equipt /All Terrain Vehicles	SO2	0.015
2014	24003	2260001060	Off-highway Gasoline, 2-Stroke /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.004
2014	24003	2260002006	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Tampers/Rammers	SO2	0.001
2014	24003	2260002009	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Plate Compactors	SO2	0.000
2014	24003	2260002021	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Paving Equipt	SO2	0.000
2014	24003	2260002027	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Signal Boards/Light Plants	SO2	0.000
2014	24003	2260002039	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.003
2014	24003	2260002054	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.000
2014	24003	2260003030	Off-highway Gasoline, 2-Stroke /Industrial Equipt /Sweepers/Scrubbers	SO2	0.000
2014	24003	2260003040	Off-highway Gasoline, 2-Stroke /Industrial Equipt /Other General Industrial Equipt	SO2	0.000
2014	24003	2260004015	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Residential)	SO2	0.000
2014	24003	2260004016	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Commercial)	SO2	0.003
2014	24003	2260004020	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Chain Saws < 6 HP (Residential)	SO2	0.005
2014	24003	2260004021	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Chain Saws < 6 HP (Commercial)	SO2	0.032
2014	24003	2260004025	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Residential)	SO2	0.007
2014	24003	2260004026	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Commercial)	SO2	0.028
2014	24003	2260004030	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Residential)	SO2	0.004
2014	24003	2260004031	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Commercial)	SO2	0.026
2014	24003	2260004035	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Snowblowers (Residential)	SO2	0.002
2014	24003	2260004036	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Snowblowers (Commercial)	SO2	0.008
2014	24003	2260004071	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Turf Equipt (Commercial)	SO2	0.000
2014	24003	2260005035	Off-highway Gasoline, 2-Stroke /Agricultural Equipt /Sprayers	SO2	0.000
2014	24003	2260006005	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Generator Sets	SO2	0.001
2014	24003	2260006010	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Pumps	SO2	0.004
2014	24003	2260006015	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Air Compressors	SO2	0.000
2014	24003	2260006035	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Hydro-power Units	SO2	0.000
2014	24003	2260007005	Off-highway Gasoline, 2-Stroke /Logging Equipt /Chain Saws : 6 HP	SO2	0.000
2014	24003	2265001010	Off-highway Gasoline, 4-Stroke /Recreational Equipt /Motorcycles: Off-road	SO2	0.006
2014	24003	2265001030	Off-highway Gasoline, 4-Stroke /Recreational Equipt /All Terrain Vehicles	SO2	0.067
2014	24003	2265001050	Off-highway Gasoline, 4-Stroke /Recreational Equipt /Golf Carts	SO2	0.014
2014	24003	2265001060	Off-highway Gasoline, 4-Stroke /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.004
2014	24003	2265002003	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Pavers	SO2	0.001
2014	24003	2265002006	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Tampers/Rammers	SO2	0.000
2014	24003	2265002009	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Plate Compactors	SO2	0.002
2014	24003	2265002015	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Rollers	SO2	0.002

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24003	2265002021	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Paving Equipt	SO2	0.004
2014	24003	2265002024	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Surfacing Equipt	SO2	0.002
2014	24003	2265002027	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Signal Boards/Light Plants	SO2	0.000
2014	24003	2265002030	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Trenchers	SO2	0.003
2014	24003	2265002033	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Bore/Drill Rigs	SO2	0.001
2014	24003	2265002039	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.007
2014	24003	2265002042	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Cement & Mortar Mixers	SO2	0.003
2014	24003	2265002045	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Cranes	SO2	0.000
2014	24003	2265002054	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.000
2014	24003	2265002057	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Rough Terrain Forklifts	SO2	0.000
2014	24003	2265002060	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Rubber Tire Loaders	SO2	0.001
2014	24003	2265002066	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Tractors/Loaders/Backhoes	SO2	0.002
2014	24003	2265002072	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Skid Steer Loaders	SO2	0.002
2014	24003	2265002078	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Dumpers/Tenders	SO2	0.001
2014	24003	2265002081	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Other Construction Equipt	SO2	0.000
2014	24003	2265003010	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Aerial Lifts	SO2	0.001
2014	24003	2265003020	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Forklifts	SO2	0.004
2014	24003	2265003030	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Sweepers/Scrubbers	SO2	0.001
2014	24003	2265003040	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Other General Industrial Equipt	SO2	0.002
2014	24003	2265003050	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Other Material H&ling Equipt	SO2	0.000
2014	24003	2265003060	Off-highway Gasoline, 4-Stroke /Industrial Equipt /AC\Refrigeration	SO2	0.000
2014	24003	2265003070	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Terminal Tractors	SO2	0.000
2014	24003	2265004010	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn Mowers (Residential)	SO2	0.060
2014	24003	2265004011	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn Mowers (Commercial)	SO2	0.081
2014	24003	2265004015	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Residential)	SO2	0.005
2014	24003	2265004016	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Commercial)	SO2	0.041
2014	24003	2265004025	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Residential)	SO2	0.000
2014	24003	2265004026	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Commercial)	SO2	0.002
2014	24003	2265004030	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Residential)	SO2	0.001
2014	24003	2265004031	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Commercial)	SO2	0.078
2014	24003	2265004035	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Snowblowers (Residential)	SO2	0.007
2014	24003	2265004036	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Snowblowers (Commercial)	SO2	0.027
2014	24003	2265004040	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rear Engine Riding Mowers (Residential)	SO2	0.012
2014	24003	2265004041	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rear Engine Riding Mowers (Commercial)	SO2	0.009
2014	24003	2265004046	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Front Mowers (Commercial)	SO2	0.010
2014	24003	2265004051	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Shredders < 6 HP (Commercial)	SO2	0.005
2014	24003	2265004055	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn & Garden Tractors (Residential)	SO2	0.162



Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24003	2265004056	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn & Garden Tractors (Commercial)	SO2	0.122
2014	24003	2265004066	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Chippers/Stump Grinders (Commercial)	SO2	0.020
2014	24003	2265004071	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Turf Equipt (Commercial)	SO2	0.393
2014	24003	2265004075	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Other Lawn & Garden Equipt (Residential)	SO2	0.006
2014	24003	2265004076	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Other Lawn & Garden Equipt (Commercial)	SO2	0.012
2014	24003	2265005010	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /2-Wheel Tractors	SO2	0.000
2014	24003	2265005015	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Agricultural Tractors	SO2	0.000
2014	24003	2265005020	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Combines	SO2	0.000
2014	24003	2265005025	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Balers	SO2	0.000
2014	24003	2265005030	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Agricultural Mowers	SO2	0.000
2014	24003	2265005035	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Sprayers	SO2	0.000
2014	24003	2265005040	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Tillers : 6 HP	SO2	0.000
2014	24003	2265005045	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Swathers	SO2	0.000
2014	24003	2265005055	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Other Agricultural Equipt	SO2	0.000
2014	24003	2265005060	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Irrigation Sets	SO2	0.000
2014	24003	2265006005	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Generator Sets	SO2	0.139
2014	24003	2265006010	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Pumps	SO2	0.035
2014	24003	2265006015	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Air Compressors	SO2	0.018
2014	24003	2265006025	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Welders	SO2	0.040
2014	24003	2265006030	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Pressure Washers	SO2	0.062
2014	24003	2265006035	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Hydro-power Units	SO2	0.003
2014	24003	2265007010	Off-highway Gasoline, 4-Stroke /Logging Equipt /Shredders : 6 HP	SO2	0.001
2014	24003	2265007015	Off-highway Gasoline, 4-Stroke /Logging Equipt /Forest Equipt - Feller/Bunch/Skidder	SO2	0.000
2014	24003	2265008005	Airport Ground Support Equipment, 4-Stroke Gasoline	SO2	0.006
2014	24003	2265010010	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Other Oil Field Equipt	SO2	0.000
2014	24003	2267001060	Off-highway LPG /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.000
2014	24003	2267002003	Off-highway LPG /Construction & Mining Equipt /Pavers	SO2	0.000
2014	24003	2267002015	Off-highway LPG /Construction & Mining Equipt /Rollers	SO2	0.000
2014	24003	2267002021	Off-highway LPG /Construction & Mining Equipt /Paving Equipt	SO2	0.000
2014	24003	2267002024	Off-highway LPG /Construction & Mining Equipt /Surfacing Equipt	SO2	0.000
2014	24003	2267002030	Off-highway LPG /Construction & Mining Equipt /Trenchers	SO2	0.000
2014	24003	2267002033	Off-highway LPG /Construction & Mining Equipt /Bore/Drill Rigs	SO2	0.000
2014	24003	2267002039	Off-highway LPG /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.000
2014	24003	2267002045	Off-highway LPG /Construction & Mining Equipt /Cranes	SO2	0.000
2014	24003	2267002054	Off-highway LPG /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.000
2014	24003	2267002057	Off-highway LPG /Construction & Mining Equipt /Rough Terrain Forklifts	SO2	0.000
2014	24003	2267002060	Off-highway LPG /Construction & Mining Equipt /Rubber Tire Loaders	SO2	0.000

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24003	2267002066	Off-highway LPG /Construction & Mining Equipt /Tractors/Loaders/Backhoes	SO2	0.000
2014	24003	2267002072	Off-highway LPG /Construction & Mining Equipt /Skid Steer Loaders	SO2	0.000
2014	24003	2267002081	Off-highway LPG /Construction & Mining Equipt /Other Construction Equipt	SO2	0.000
2014	24003	2267003010	Off-highway LPG /Industrial Equipt /Aerial Lifts	SO2	0.001
2014	24003	2267003020	Off-highway LPG /Industrial Equipt /Forklifts	SO2	0.075
2014	24003	2267003030	Off-highway LPG /Industrial Equipt /Sweepers/Scrubbers	SO2	0.001
2014	24003	2267003040	Off-highway LPG /Industrial Equipt /Other General Industrial Equipt	SO2	0.000
2014	24003	2267003050	Off-highway LPG /Industrial Equipt /Other Material H&ling Equipt	SO2	0.000
2014	24003	2267003070	Off-highway LPG /Industrial Equipt /Terminal Tractors	SO2	0.000
2014	24003	2267004066	Off-highway LPG /Lawn & Garden Equipt /Chippers/Stump Grinders (Commercial)	SO2	0.002
2014	24003	2267005055	Off-highway LPG /Agricultural Equipt /Other Agricultural Equipt	SO2	0.000
2014	24003	2267005060	Off-highway LPG /Agricultural Equipt /Irrigation Sets	SO2	0.000
2014	24003	2267006005	Off-highway LPG /Commercial Equipt /Generator Sets	SO2	0.005
2014	24003	2267006010	Off-highway LPG /Commercial Equipt /Pumps	SO2	0.001
2014	24003	2267006015	Off-highway LPG /Commercial Equipt /Air Compressors	SO2	0.001
2014	24003	2267006025	Off-highway LPG /Commercial Equipt /Welders	SO2	0.002
2014	24003	2267006030	Off-highway LPG /Commercial Equipt /Pressure Washers	SO2	0.000
2014	24003	2267006035	Off-highway LPG /Commercial Equipt /Hydro-power Units	SO2	0.000
2014	24003	2267008005	Airport Ground Support Equipment, LPG	SO2	0.001
2014	24003	2268002081	Off-highway CNG /Construction & Mining Equipt /Other Construction Equipt	SO2	0.000
2014	24003	2268003020	Off-highway CNG /Industrial Equipt /Forklifts	SO2	0.005
2014	24003	2268003030	Off-highway CNG /Industrial Equipt /Sweepers/Scrubbers	SO2	0.000
2014	24003	2268003040	Off-highway CNG /Industrial Equipt /Other General Industrial Equipt	SO2	0.000
2014	24003	2268003060	Off-highway CNG /Industrial Equipt /AC\Refrigeration	SO2	0.000
2014	24003	2268003070	Off-highway CNG /Industrial Equipt /Terminal Tractors	SO2	0.000
2014	24003	2268005055	Off-highway CNG /Agricultural Equipt /Other Agricultural Equipt	SO2	0.000
2014	24003	2268005060	Off-highway CNG /Agricultural Equipt /Irrigation Sets	SO2	0.000
2014	24003	2268006005	Off-highway CNG /Commercial Equipt /Generator Sets	SO2	0.001
2014	24003	2268006010	Off-highway CNG /Commercial Equipt /Pumps	SO2	0.000
2014	24003	2268006015	Off-highway CNG /Commercial Equipt /Air Compressors	SO2	0.000
2014	24003	2268006020	Off-highway CNG /Commercial Equipt /Gas Compressors	SO2	0.003
2014	24003	2268010010	Off-highway CNG /Industrial Equipt /Other Oil Field Equipt	SO2	0.000
2014	24003	2270001060	Off-highway Diesel /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.003
2014	24003	2270002003	Off-highway Diesel /Construction & Mining Equipt /Pavers	SO2	0.021
2014	24003	2270002006	Off-highway Diesel /Construction & Mining Equipt /Tampers/Rammers	SO2	0.000
2014	24003	2270002009	Off-highway Diesel /Construction & Mining Equipt /Plate Compactors	SO2	0.001
2014	24003	2270002015	Off-highway Diesel /Construction & Mining Equipt /Rollers	SO2	0.053

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24003	2270002018	Off-highway Diesel /Construction & Mining Equipt /Scrapers	SO2	0.056
2014	24003	2270002021	Off-highway Diesel /Construction & Mining Equipt /Paving Equipt	SO2	0.003
2014	24003	2270002024	Off-highway Diesel /Construction & Mining Equipt /Surfacing Equipt	SO2	0.002
2014	24003	2270002027	Off-highway Diesel /Construction & Mining Equipt /Signal Boards/Light Plants	SO2	0.006
2014	24003	2270002030	Off-highway Diesel /Construction & Mining Equipt /Trenchers	SO2	0.026
2014	24003	2270002033	Off-highway Diesel /Construction & Mining Equipt /Bore/Drill Rigs	SO2	0.022
2014	24003	2270002036	Off-highway Diesel /Construction & Mining Equipt /Excavators	SO2	0.204
2014	24003	2270002039	Off-highway Diesel /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.002
2014	24003	2270002042	Off-highway Diesel /Construction & Mining Equipt /Cement & Mortar Mixers	SO2	0.001
2014	24003	2270002045	Off-highway Diesel /Construction & Mining Equipt /Cranes	SO2	0.049
2014	24003	2270002048	Off-highway Diesel /Construction & Mining Equipt /Graders	SO2	0.051
2014	24003	2270002051	Off-highway Diesel /Construction & Mining Equipt /Off-highway Trucks	SO2	0.170
2014	24003	2270002054	Off-highway Diesel /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.009
2014	24003	2270002057	Off-highway Diesel /Construction & Mining Equipt /Rough Terrain Forklifts	SO2	0.069
2014	24003	2270002060	Off-highway Diesel /Construction & Mining Equipt /Rubber Tire Loaders	SO2	0.231
2014	24003	2270002066	Off-highway Diesel /Construction & Mining Equipt /Tractors/Loaders/Backhoes	SO2	0.146
2014	24003	2270002069	Off-highway Diesel /Construction & Mining Equipt /Crawler Tractor/Dozers	SO2	0.208
2014	24003	2270002072	Off-highway Diesel /Construction & Mining Equipt /Skid Steer Loaders	SO2	0.102
2014	24003	2270002075	Off-highway Diesel /Construction & Mining Equipt /Off-highway Tractors	SO2	0.023
2014	24003	2270002078	Off-highway Diesel /Construction & Mining Equipt /Dumpers/Tenders	SO2	0.000
2014	24003	2270002081	Off-highway Diesel /Construction & Mining Equipt /Other Construction Equipt	SO2	0.022
2014	24003	2270003010	Off-highway Diesel /Industrial Equipt /Aerial Lifts	SO2	0.003
2014	24003	2270003020	Off-highway Diesel /Industrial Equipt /Forklifts	SO2	0.042
2014	24003	2270003030	Off-highway Diesel /Industrial Equipt /Sweepers/Scrubbers	SO2	0.020
2014	24003	2270003040	Off-highway Diesel /Industrial Equipt /Other General Industrial Equipt	SO2	0.020
2014	24003	2270003050	Off-highway Diesel /Industrial Equipt /Other Material H&ling Equipt	SO2	0.001
2014	24003	2270003060	Off-highway Diesel /Industrial Equipt /AC\Refrigeration	SO2	0.107
2014	24003	2270003070	Off-highway Diesel /Industrial Equipt /Terminal Tractors	SO2	0.027
2014	24003	2270004031	Off-highway Diesel /Lawn & Garden Equipt /Leafblowers/Vacuums (Commercial)	SO2	0.000
2014	24003	2270004036	Off-highway Diesel /Lawn & Garden Equipt /Snowblowers (Commercial)	SO2	0.002
2014	24003	2270004046	Off-highway Diesel /Lawn & Garden Equipt /Front Mowers (Commercial)	SO2	0.048
2014	24003	2270004056	Off-highway Diesel /Lawn & Garden Equipt /Lawn & Garden Tractors (Commercial)	SO2	0.010
2014	24003	2270004066	Off-highway Diesel /Lawn & Garden Equipt /Chippers/Stump Grinders (Commercial)	SO2	0.064
2014	24003	2270004071	Off-highway Diesel /Lawn & Garden Equipt /Turf Equipt (Commercial)	SO2	0.007
2014	24003	2270004076	Off-highway Diesel /Lawn & Garden Equipt /Other Lawn & Garden Equipt (Commercial)	SO2	0.000
2014	24003	2270005010	Off-highway Diesel /Agricultural Equipt /2-Wheel Tractors	SO2	0.000
2014	24003	2270005015	Off-highway Diesel /Agricultural Equipt /Agricultural Tractors	SO2	0.031



Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24003	2270005020	Off-highway Diesel /Agricultural Equipt /Combines	SO2	0.003
2014	24003	2270005025	Off-highway Diesel /Agricultural Equipt /Balers	SO2	0.000
2014	24003	2270005030	Off-highway Diesel /Agricultural Equipt /Agricultural Mowers	SO2	0.000
2014	24003	2270005035	Off-highway Diesel /Agricultural Equipt /Sprayers	SO2	0.000
2014	24003	2270005040	Off-highway Diesel /Agricultural Equipt /Tillers : 6 HP	SO2	0.000
2014	24003	2270005045	Off-highway Diesel /Agricultural Equipt /Swathers	SO2	0.000
2014	24003	2270005055	Off-highway Diesel /Agricultural Equipt /Other Agricultural Equipt	SO2	0.001
2014	24003	2270005060	Off-highway Diesel /Agricultural Equipt /Irrigation Sets	SO2	0.000
2014	24003	2270006005	Off-highway Diesel /Commercial Equipt /Generator Sets	SO2	0.069
2014	24003	2270006010	Off-highway Diesel /Commercial Equipt /Pumps	SO2	0.016
2014	24003	2270006015	Off-highway Diesel /Commercial Equipt /Air Compressors	SO2	0.044
2014	24003	2270006025	Off-highway Diesel /Commercial Equipt /Welders	SO2	0.023
2014	24003	2270006030	Off-highway Diesel /Commercial Equipt /Pressure Washers	SO2	0.002
2014	24003	2270006035	Off-highway Diesel /Commercial Equipt /Hydro-power Units	SO2	0.002
2014	24003	2270007015	Off-highway Diesel /Logging Equipt /Forest Equipt - Feller/Bunch/Skidder	SO2	0.006
2014	24003	2270008005	Airport Ground Support Equipment, Diesel	SO2	0.214
2014	24003	2270009010	Off-highway Diesel /Underground Mining Equipt /Other Underground Mining Equipt	SO2	0.000
2014	24003	2270010010	Off-highway Diesel /Industrial Equipt /Other Oil Field Equipt	SO2	0.000
2014	24003	2282005010	Pleasure Craft /Gasoline 2-Stroke /Outboard	SO2	0.137
2014	24003	2282005015	Pleasure Craft /Gasoline 2-Stroke /Personal Water Craft	SO2	0.058
2014	24003	2282010005	Pleasure Craft /Gasoline 4-Stroke /Inboard/Sterndrive	SO2	0.111
2014	24003	2282020005	Pleasure Craft /Diesel /Inboard/Sterndrive	SO2	0.173
2014	24003	2282020010	Pleasure Craft /Diesel /Outboard	SO2	0.001
2014	24003	2285002015	Railroad Equipt /Diesel /Railway Maintenance	SO2	0.002
2014	24003	2285004015	Railroad Equipt /Gasoline, 4-Stroke /Railway Maintenance	SO2	0.000
2014	24003	2285006015	Railroad Equipt /LPG /Railway Maintenance	SO2	0.000
2014	<b>24003 Total</b>				4.473

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24005	2260001010	Off-highway Gasoline, 2-Stroke /Recreational Equipt /Motorcycles: Off-road	SO2	0.006
2014	24005	2260001020	Off-highway Gasoline, 2-Stroke /Recreational Equipt /Snowmobiles	SO2	0.000
2014	24005	2260001030	Off-highway Gasoline, 2-Stroke /Recreational Equipt /All Terrain Vehicles	SO2	0.007
2014	24005	2260001060	Off-highway Gasoline, 2-Stroke /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.002
2014	24005	2260002006	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Tampers/Rammers	SO2	0.003
2014	24005	2260002009	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Plate Compactors	SO2	0.000
2014	24005	2260002021	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Paving Equipt	SO2	0.000
2014	24005	2260002027	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Signal Boards/Light Plants	SO2	0.000
2014	24005	2260002039	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.007
2014	24005	2260002054	Off-highway Gasoline, 2-Stroke /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.000
2014	24005	2260003030	Off-highway Gasoline, 2-Stroke /Industrial Equipt /Sweepers/Scrubbers	SO2	0.000
2014	24005	2260003040	Off-highway Gasoline, 2-Stroke /Industrial Equipt /Other General Industrial Equipt	SO2	0.000
2014	24005	2260004015	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Residential)	SO2	0.001
2014	24005	2260004016	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Commercial)	SO2	0.003
2014	24005	2260004020	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Chain Saws < 6 HP (Residential)	SO2	0.008
2014	24005	2260004021	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Chain Saws < 6 HP (Commercial)	SO2	0.038
2014	24005	2260004025	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Residential)	SO2	0.011
2014	24005	2260004026	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Commercial)	SO2	0.033
2014	24005	2260004030	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Residential)	SO2	0.007
2014	24005	2260004031	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Commercial)	SO2	0.031
2014	24005	2260004035	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Snowblowers (Residential)	SO2	0.003
2014	24005	2260004036	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Snowblowers (Commercial)	SO2	0.010
2014	24005	2260004071	Off-highway Gasoline, 2-Stroke /Lawn & Garden Equipt /Turf Equipt (Commercial)	SO2	0.000
2014	24005	2260005035	Off-highway Gasoline, 2-Stroke /Agricultural Equipt /Sprayers	SO2	0.000
2014	24005	2260006005	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Generator Sets	SO2	0.001
2014	24005	2260006010	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Pumps	SO2	0.007
2014	24005	2260006015	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Air Compressors	SO2	0.000
2014	24005	2260006035	Off-highway Gasoline, 2-Stroke /Commercial Equipt /Hydro-power Units	SO2	0.000
2014	24005	2260007005	Off-highway Gasoline, 2-Stroke /Logging Equipt /Chain Saws : 6 HP	SO2	0.000
2014	24005	2265001010	Off-highway Gasoline, 4-Stroke /Recreational Equipt /Motorcycles: Off-road	SO2	0.003
2014	24005	2265001030	Off-highway Gasoline, 4-Stroke /Recreational Equipt /All Terrain Vehicles	SO2	0.034
2014	24005	2265001050	Off-highway Gasoline, 4-Stroke /Recreational Equipt /Golf Carts	SO2	0.030
2014	24005	2265001060	Off-highway Gasoline, 4-Stroke /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.002
2014	24005	2265002003	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Pavers	SO2	0.003
2014	24005	2265002006	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Tampers/Rammers	SO2	0.000
2014	24005	2265002009	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Plate Compactors	SO2	0.005
2014	24005	2265002015	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Rollers	SO2	0.004

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24005	2265002021	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Paving Equipt	SO2	0.009
2014	24005	2265002024	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Surfacing Equipt	SO2	0.004
2014	24005	2265002027	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Signal Boards/Light Plants	SO2	0.000
2014	24005	2265002030	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Trenchers	SO2	0.008
2014	24005	2265002033	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Bore/Drill Rigs	SO2	0.003
2014	24005	2265002039	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.016
2014	24005	2265002042	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Cement & Mortar Mixers	SO2	0.008
2014	24005	2265002045	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Cranes	SO2	0.001
2014	24005	2265002054	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.001
2014	24005	2265002057	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Rough Terrain Forklifts	SO2	0.001
2014	24005	2265002060	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Rubber Tire Loaders	SO2	0.002
2014	24005	2265002066	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Tractors/Loaders/Backhoes	SO2	0.005
2014	24005	2265002072	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Skid Steer Loaders	SO2	0.004
2014	24005	2265002078	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Dumpers/Tenders	SO2	0.001
2014	24005	2265002081	Off-highway Gasoline, 4-Stroke /Construction & Mining Equipt /Other Construction Equipt	SO2	0.001
2014	24005	2265003010	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Aerial Lifts	SO2	0.002
2014	24005	2265003020	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Forklifts	SO2	0.007
2014	24005	2265003030	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Sweepers/Scrubbers	SO2	0.002
2014	24005	2265003040	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Other General Industrial Equipt	SO2	0.003
2014	24005	2265003050	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Other Material H&ling Equipt	SO2	0.000
2014	24005	2265003060	Off-highway Gasoline, 4-Stroke /Industrial Equipt /AC\Refrigeration	SO2	0.000
2014	24005	2265003070	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Terminal Tractors	SO2	0.001
2014	24005	2265004010	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn Mowers (Residential)	SO2	0.100
2014	24005	2265004011	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn Mowers (Commercial)	SO2	0.098
2014	24005	2265004015	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Residential)	SO2	0.008
2014	24005	2265004016	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rotary Tillers < 6 HP (Commercial)	SO2	0.050
2014	24005	2265004025	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Residential)	SO2	0.001
2014	24005	2265004026	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Trimmers/Edgers/Brush Cutters (Commercial)	SO2	0.002
2014	24005	2265004030	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Residential)	SO2	0.001
2014	24005	2265004031	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Leafblowers/Vacuums (Commercial)	SO2	0.093
2014	24005	2265004035	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Snowblowers (Residential)	SO2	0.011
2014	24005	2265004036	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Snowblowers (Commercial)	SO2	0.032
2014	24005	2265004040	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rear Engine Riding Mowers (Residential)	SO2	0.020
2014	24005	2265004041	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Rear Engine Riding Mowers (Commercial)	SO2	0.011
2014	24005	2265004046	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Front Mowers (Commercial)	SO2	0.012
2014	24005	2265004051	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Shredders < 6 HP (Commercial)	SO2	0.006
2014	24005	2265004055	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn & Garden Tractors (Residential)	SO2	0.269

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24005	2265004056	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Lawn & Garden Tractors (Commercial)	SO2	0.146
2014	24005	2265004066	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Chippers/Stump Grinders (Commercial)	SO2	0.025
2014	24005	2265004071	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Turf Equipt (Commercial)	SO2	0.473
2014	24005	2265004075	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Other Lawn & Garden Equipt (Residential)	SO2	0.010
2014	24005	2265004076	Off-highway Gasoline, 4-Stroke /Lawn & Garden Equipt /Other Lawn & Garden Equipt (Commercial)	SO2	0.014
2014	24005	2265005010	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /2-Wheel Tractors	SO2	0.000
2014	24005	2265005015	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Agricultural Tractors	SO2	0.000
2014	24005	2265005020	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Combines	SO2	0.000
2014	24005	2265005025	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Balers	SO2	0.000
2014	24005	2265005030	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Agricultural Mowers	SO2	0.000
2014	24005	2265005035	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Sprayers	SO2	0.000
2014	24005	2265005040	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Tillers : 6 HP	SO2	0.001
2014	24005	2265005045	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Swathers	SO2	0.000
2014	24005	2265005055	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Other Agricultural Equipt	SO2	0.000
2014	24005	2265005060	Off-highway Gasoline, 4-Stroke /Agricultural Equipt /Irrigation Sets	SO2	0.000
2014	24005	2265006005	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Generator Sets	SO2	0.213
2014	24005	2265006010	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Pumps	SO2	0.053
2014	24005	2265006015	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Air Compressors	SO2	0.028
2014	24005	2265006025	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Welders	SO2	0.061
2014	24005	2265006030	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Pressure Washers	SO2	0.095
2014	24005	2265006035	Off-highway Gasoline, 4-Stroke /Commercial Equipt /Hydro-power Units	SO2	0.004
2014	24005	2265007010	Off-highway Gasoline, 4-Stroke /Logging Equipt /Shredders : 6 HP	SO2	0.000
2014	24005	2265007015	Off-highway Gasoline, 4-Stroke /Logging Equipt /Forest Equipt - Feller/Bunch/Skidder	SO2	0.000
2014	24005	2265008005	Airport Ground Support Equipment, 4-Stroke Gasoline	SO2	0.000
2014	24005	2265010010	Off-highway Gasoline, 4-Stroke /Industrial Equipt /Other Oil Field Equipt	SO2	0.000
2014	24005	2267001060	Off-highway LPG /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.000
2014	24005	2267002003	Off-highway LPG /Construction & Mining Equipt /Pavers	SO2	0.000
2014	24005	2267002015	Off-highway LPG /Construction & Mining Equipt /Rollers	SO2	0.000
2014	24005	2267002021	Off-highway LPG /Construction & Mining Equipt /Paving Equipt	SO2	0.000
2014	24005	2267002024	Off-highway LPG /Construction & Mining Equipt /Surfacing Equipt	SO2	0.000
2014	24005	2267002030	Off-highway LPG /Construction & Mining Equipt /Trenchers	SO2	0.000
2014	24005	2267002033	Off-highway LPG /Construction & Mining Equipt /Bore/Drill Rigs	SO2	0.000
2014	24005	2267002039	Off-highway LPG /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.000
2014	24005	2267002045	Off-highway LPG /Construction & Mining Equipt /Cranes	SO2	0.000
2014	24005	2267002054	Off-highway LPG /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.000
2014	24005	2267002057	Off-highway LPG /Construction & Mining Equipt /Rough Terrain Forklifts	SO2	0.000
2014	24005	2267002060	Off-highway LPG /Construction & Mining Equipt /Rubber Tire Loaders	SO2	0.001

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24005	2267002066	Off-highway LPG /Construction & Mining Equipt /Tractors/Loaders/Backhoes	SO2	0.000
2014	24005	2267002072	Off-highway LPG /Construction & Mining Equipt /Skid Steer Loaders	SO2	0.001
2014	24005	2267002081	Off-highway LPG /Construction & Mining Equipt /Other Construction Equipt	SO2	0.000
2014	24005	2267003010	Off-highway LPG /Industrial Equipt /Aerial Lifts	SO2	0.002
2014	24005	2267003020	Off-highway LPG /Industrial Equipt /Forklifts	SO2	0.138
2014	24005	2267003030	Off-highway LPG /Industrial Equipt /Sweepers/Scrubbers	SO2	0.001
2014	24005	2267003040	Off-highway LPG /Industrial Equipt /Other General Industrial Equipt	SO2	0.000
2014	24005	2267003050	Off-highway LPG /Industrial Equipt /Other Material H&ling Equipt	SO2	0.000
2014	24005	2267003070	Off-highway LPG /Industrial Equipt /Terminal Tractors	SO2	0.001
2014	24005	2267004066	Off-highway LPG /Lawn & Garden Equipt /Chippers/Stump Grinders (Commercial)	SO2	0.002
2014	24005	2267005055	Off-highway LPG /Agricultural Equipt /Other Agricultural Equipt	SO2	0.000
2014	24005	2267005060	Off-highway LPG /Agricultural Equipt /Irrigation Sets	SO2	0.000
2014	24005	2267006005	Off-highway LPG /Commercial Equipt /Generator Sets	SO2	0.008
2014	24005	2267006010	Off-highway LPG /Commercial Equipt /Pumps	SO2	0.002
2014	24005	2267006015	Off-highway LPG /Commercial Equipt /Air Compressors	SO2	0.002
2014	24005	2267006025	Off-highway LPG /Commercial Equipt /Welders	SO2	0.002
2014	24005	2267006030	Off-highway LPG /Commercial Equipt /Pressure Washers	SO2	0.000
2014	24005	2267006035	Off-highway LPG /Commercial Equipt /Hydro-power Units	SO2	0.000
2014	24005	2267008005	Airport Ground Support Equipment, LPG	SO2	0.000
2014	24005	2268002081	Off-highway CNG /Construction & Mining Equipt /Other Construction Equipt	SO2	0.000
2014	24005	2268003020	Off-highway CNG /Industrial Equipt /Forklifts	SO2	0.009
2014	24005	2268003030	Off-highway CNG /Industrial Equipt /Sweepers/Scrubbers	SO2	0.000
2014	24005	2268003040	Off-highway CNG /Industrial Equipt /Other General Industrial Equipt	SO2	0.000
2014	24005	2268003060	Off-highway CNG /Industrial Equipt /AC\Refrigeration	SO2	0.000
2014	24005	2268003070	Off-highway CNG /Industrial Equipt /Terminal Tractors	SO2	0.000
2014	24005	2268005055	Off-highway CNG /Agricultural Equipt /Other Agricultural Equipt	SO2	0.000
2014	24005	2268005060	Off-highway CNG /Agricultural Equipt /Irrigation Sets	SO2	0.000
2014	24005	2268006005	Off-highway CNG /Commercial Equipt /Generator Sets	SO2	0.002
2014	24005	2268006010	Off-highway CNG /Commercial Equipt /Pumps	SO2	0.000
2014	24005	2268006015	Off-highway CNG /Commercial Equipt /Air Compressors	SO2	0.000
2014	24005	2268006020	Off-highway CNG /Commercial Equipt /Gas Compressors	SO2	0.005
2014	24005	2268010010	Off-highway CNG /Industrial Equipt /Other Oil Field Equipt	SO2	0.000
2014	24005	2270001060	Off-highway Diesel /Recreational Equipt /Specialty Vehicles/Carts	SO2	0.002
2014	24005	2270002003	Off-highway Diesel /Construction & Mining Equipt /Pavers	SO2	0.048
2014	24005	2270002006	Off-highway Diesel /Construction & Mining Equipt /Tampers/Rammers	SO2	0.000
2014	24005	2270002009	Off-highway Diesel /Construction & Mining Equipt /Plate Compactors	SO2	0.001
2014	24005	2270002015	Off-highway Diesel /Construction & Mining Equipt /Rollers	SO2	0.122



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2014	24005	2270002018	Off-highway Diesel /Construction & Mining Equipt /Scrapers	SO2	0.131
2014	24005	2270002021	Off-highway Diesel /Construction & Mining Equipt /Paving Equipt	SO2	0.007
2014	24005	2270002024	Off-highway Diesel /Construction & Mining Equipt /Surfacing Equipt	SO2	0.005
2014	24005	2270002027	Off-highway Diesel /Construction & Mining Equipt /Signal Boards/Light Plants	SO2	0.014
2014	24005	2270002030	Off-highway Diesel /Construction & Mining Equipt /Trenchers	SO2	0.059
2014	24005	2270002033	Off-highway Diesel /Construction & Mining Equipt /Bore/Drill Rigs	SO2	0.052
2014	24005	2270002036	Off-highway Diesel /Construction & Mining Equipt /Excavators	SO2	0.473
2014	24005	2270002039	Off-highway Diesel /Construction & Mining Equipt /Concrete/Industrial Saws	SO2	0.004
2014	24005	2270002042	Off-highway Diesel /Construction & Mining Equipt /Cement & Mortar Mixers	SO2	0.002
2014	24005	2270002045	Off-highway Diesel /Construction & Mining Equipt /Cranes	SO2	0.113
2014	24005	2270002048	Off-highway Diesel /Construction & Mining Equipt /Graders	SO2	0.118
2014	24005	2270002051	Off-highway Diesel /Construction & Mining Equipt /Off-highway Trucks	SO2	0.393
2014	24005	2270002054	Off-highway Diesel /Construction & Mining Equipt /Crushing/Processing Equipt	SO2	0.020
2014	24005	2270002057	Off-highway Diesel /Construction & Mining Equipt /Rough Terrain Forklifts	SO2	0.160
2014	24005	2270002060	Off-highway Diesel /Construction & Mining Equipt /Rubber Tire Loaders	SO2	0.536
2014	24005	2270002066	Off-highway Diesel /Construction & Mining Equipt /Tractors/Loaders/Backhoes	SO2	0.339
2014	24005	2270002069	Off-highway Diesel /Construction & Mining Equipt /Crawler Tractor/Dozers	SO2	0.482
2014	24005	2270002072	Off-highway Diesel /Construction & Mining Equipt /Skid Steer Loaders	SO2	0.236
2014	24005	2270002075	Off-highway Diesel /Construction & Mining Equipt /Off-highway Tractors	SO2	0.053
2014	24005	2270002078	Off-highway Diesel /Construction & Mining Equipt /Dumpers/Tenders	SO2	0.001
2014	24005	2270002081	Off-highway Diesel /Construction & Mining Equipt /Other Construction Equipt	SO2	0.052
2014	24005	2270003010	Off-highway Diesel /Industrial Equipt /Aerial Lifts	SO2	0.006
2014	24005	2270003020	Off-highway Diesel /Industrial Equipt /Forklifts	SO2	0.078
2014	24005	2270003030	Off-highway Diesel /Industrial Equipt /Sweepers/Scrubbers	SO2	0.036
2014	24005	2270003040	Off-highway Diesel /Industrial Equipt /Other General Industrial Equipt	SO2	0.037
2014	24005	2270003050	Off-highway Diesel /Industrial Equipt /Other Material H&ling Equipt	SO2	0.001
2014	24005	2270003060	Off-highway Diesel /Industrial Equipt /AC\Refrigeration	SO2	0.164
2014	24005	2270003070	Off-highway Diesel /Industrial Equipt /Terminal Tractors	SO2	0.049
2014	24005	2270004031	Off-highway Diesel /Lawn & Garden Equipt /Leafblowers/Vacuums (Commercial)	SO2	0.000
2014	24005	2270004036	Off-highway Diesel /Lawn & Garden Equipt /Snowblowers (Commercial)	SO2	0.002
2014	24005	2270004046	Off-highway Diesel /Lawn & Garden Equipt /Front Mowers (Commercial)	SO2	0.058
2014	24005	2270004056	Off-highway Diesel /Lawn & Garden Equipt /Lawn & Garden Tractors (Commercial)	SO2	0.012
2014	24005	2270004066	Off-highway Diesel /Lawn & Garden Equipt /Chippers/Stump Grinders (Commercial)	SO2	0.076
2014	24005	2270004071	Off-highway Diesel /Lawn & Garden Equipt /Turf Equipt (Commercial)	SO2	0.009
2014	24005	2270004076	Off-highway Diesel /Lawn & Garden Equipt /Other Lawn & Garden Equipt (Commercial)	SO2	0.000
2014	24005	2270005010	Off-highway Diesel /Agricultural Equipt /2-Wheel Tractors	SO2	0.000
2014	24005	2270005015	Off-highway Diesel /Agricultural Equipt /Agricultural Tractors	SO2	0.064

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2014	24005	2270005020	Off-highway Diesel /Agricultural Equipt /Combines	SO2	0.006
2014	24005	2270005025	Off-highway Diesel /Agricultural Equipt /Balers	SO2	0.000
2014	24005	2270005030	Off-highway Diesel /Agricultural Equipt /Agricultural Mowers	SO2	0.000
2014	24005	2270005035	Off-highway Diesel /Agricultural Equipt /Sprayers	SO2	0.000
2014	24005	2270005040	Off-highway Diesel /Agricultural Equipt /Tillers : 6 HP	SO2	0.000
2014	24005	2270005045	Off-highway Diesel /Agricultural Equipt /Swathers	SO2	0.000
2014	24005	2270005055	Off-highway Diesel /Agricultural Equipt /Other Agricultural Equipt	SO2	0.001
2014	24005	2270005060	Off-highway Diesel /Agricultural Equipt /Irrigation Sets	SO2	0.001
2014	24005	2270006005	Off-highway Diesel /Commercial Equipt /Generator Sets	SO2	0.106
2014	24005	2270006010	Off-highway Diesel /Commercial Equipt /Pumps	SO2	0.025
2014	24005	2270006015	Off-highway Diesel /Commercial Equipt /Air Compressors	SO2	0.067
2014	24005	2270006025	Off-highway Diesel /Commercial Equipt /Welders	SO2	0.035
2014	24005	2270006030	Off-highway Diesel /Commercial Equipt /Pressure Washers	SO2	0.003
2014	24005	2270006035	Off-highway Diesel /Commercial Equipt /Hydro-power Units	SO2	0.003
2014	24005	2270007015	Off-highway Diesel /Logging Equipt /Forest Equipt - Feller/Bunch/Skidder	SO2	0.003
2014	24005	2270008005	Airport Ground Support Equipment, Diesel	SO2	0.000
2014	24005	2270009010	Off-highway Diesel /Underground Mining Equipt /Other Underground Mining Equipt	SO2	0.000
2014	24005	2270010010	Off-highway Diesel /Industrial Equipt /Other Oil Field Equipt	SO2	0.001
2014	24005	2282005010	Pleasure Craft /Gasoline 2-Stroke /Outboard	SO2	0.105
2014	24005	2282005015	Pleasure Craft /Gasoline 2-Stroke /Personal Water Craft	SO2	0.045
2014	24005	2282010005	Pleasure Craft /Gasoline 4-Stroke /Inboard/Sterndrive	SO2	0.064
2014	24005	2282020005	Pleasure Craft /Diesel /Inboard/Sterndrive	SO2	0.099
2014	24005	2282020010	Pleasure Craft /Diesel /Outboard	SO2	0.000
2014	24005	2285002015	Railroad Equipt /Diesel /Railway Maintenance	SO2	0.004
2014	24005	2285004015	Railroad Equipt /Gasoline, 4-Stroke /Railway Maintenance	SO2	0.000
2014	24005	2285006015	Railroad Equipt /LPG /Railway Maintenance	SO2	0.000
2014	<b>24005 Total</b>				6.943
2014	<b>Grand Total</b>				11.416

## Appendix A-6b: Nonroad MOVES Model Inventory (2021)

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24003	2260001010	Recreational Equipment - Motorcycles: Off-road - Non-Road Gasoline	SO2	0.005038367
2021	24003	2260001020	Recreational Equipment - Snowmobiles - Non-Road Gasoline	SO2	1.53854E-35
2021	24003	2260001030	Recreational Equipment - All Terrain Vehicles - Non-Road Gasoline	SO2	0.006503011
2021	24003	2260001060	Recreational Equipment - Specialty Vehicles/Carts - Non-Road Gasoline	SO2	0.001358264
2021	24003	2260002006	Construction and Mining Equipment - Tampers/Rammers - Non-Road Gasoline	SO2	0.000416447
2021	24003	2260002009	Construction and Mining Equipment - Plate Compactors - Non-Road Gasoline	SO2	2.71175E-05
2021	24003	2260002021	Construction and Mining Equipment - Paving Equipment - Non-Road Gasoline	SO2	3.24153E-05
2021	24003	2260002027	Construction and Mining Equipment - Signal Boards/Light Plants - Non-Road Gasoline	SO2	2.42662E-07
2021	24003	2260002039	Construction and Mining Equipment - Concrete/Industrial Saws - Non-Road Gasoline	SO2	0.001076096
2021	24003	2260002054	Construction and Mining Equipment - Crushing/Processing Equipment - Non-Road Gasoline	SO2	6.31871E-06
2021	24003	2260003030	Industrial Equipment - Sweepers/Scrubbers - Non-Road Gasoline	SO2	1.17082E-06
2021	24003	2260003040	Industrial Equipment - Other General Industrial Equipment - Non-Road Gasoline	SO2	9.22124E-08
2021	24003	2260004015	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Residential) - Non-Road Gasoline	SO2	0.000131438
2021	24003	2260004016	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.001065755
2021	24003	2260004020	Lawn and Garden Equipment - Chain Saws < 6 HP (Residential) - Non-Road Gasoline	SO2	0.001801166
2021	24003	2260004021	Lawn and Garden Equipment - Chain Saws < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.011787022
2021	24003	2260004025	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Residential) - Non-Road Gasoline	SO2	0.002501532
2021	24003	2260004026	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Commercial) - Non-Road Gasoline	SO2	0.010336037
2021	24003	2260004030	Lawn and Garden Equipment - Leafblowers/Vacuums (Residential) - Non-Road Gasoline	SO2	0.001609927
2021	24003	2260004031	Lawn and Garden Equipment - Leafblowers/Vacuums (Commercial) - Non-Road Gasoline	SO2	0.009640629
2021	24003	2260004035	Lawn and Garden Equipment - Snowblowers (Residential) - Non-Road Gasoline	SO2	0.000765817
2021	24003	2260004036	Lawn and Garden Equipment - Snowblowers (Commercial) - Non-Road Gasoline	SO2	0.003009268
2021	24003	2260004071	Lawn and Garden Equipment - Turf Equipment (Commercial) - Non-Road Gasoline	SO2	4.41342E-06
2021	24003	2260005035	Agricultural Equipment - Sprayers - Non-Road Gasoline	SO2	2.36901E-06
2021	24003	2260006005	Commercial Equipment - Generator Sets - Non-Road Gasoline	SO2	0.000261415
2021	24003	2260006010	Commercial Equipment - Pumps - Non-Road Gasoline	SO2	0.001743104
2021	24003	2260006015	Commercial Equipment - Air Compressors - Non-Road Gasoline	SO2	6.72353E-07
2021	24003	2260006035	Commercial Equipment - Hydro-power Units - Non-Road Gasoline	SO2	1.05794E-05
2021	24003	2260007005	Logging Equipment - Chain Saws : 6 HP - Non-Road Gasoline	SO2	0.000140107
2021	24003	2265001010	Recreational Equipment - Motorcycles: Off-road - Non-Road Gasoline	SO2	0.002311148
2021	24003	2265001030	Recreational Equipment - All Terrain Vehicles - Non-Road Gasoline	SO2	0.023896181
2021	24003	2265001050	Recreational Equipment - Golf Carts - Non-Road Gasoline	SO2	0.004964125
2021	24003	2265001060	Recreational Equipment - Specialty Vehicles/Carts - Non-Road Gasoline	SO2	0.001269376
2021	24003	2265002003	Construction and Mining Equipment - Pavers - Non-Road Gasoline	SO2	0.000371612
2021	24003	2265002006	Construction and Mining Equipment - Tampers/Rammers - Non-Road Gasoline	SO2	2.7594E-06
2021	24003	2265002009	Construction and Mining Equipment - Plate Compactors - Non-Road Gasoline	SO2	0.000699923
2021	24003	2265002015	Construction and Mining Equipment - Rollers - Non-Road Gasoline	SO2	0.000659163



Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24003	2265002021	Construction and Mining Equipment - Paving Equipment - Non-Road Gasoline	SO2	0.00131302
2021	24003	2265002024	Construction and Mining Equipment - Surfacing Equipment - Non-Road Gasoline	SO2	0.000553609
2021	24003	2265002027	Construction and Mining Equipment - Signal Boards/Light Plants - Non-Road Gasoline	SO2	2.87553E-05
2021	24003	2265002030	Construction and Mining Equipment - Trenchers - Non-Road Gasoline	SO2	0.001154279
2021	24003	2265002033	Construction and Mining Equipment - Bore/Drill Rigs - Non-Road Gasoline	SO2	0.000396493
2021	24003	2265002039	Construction and Mining Equipment - Concrete/Industrial Saws - Non-Road Gasoline	SO2	0.002414583
2021	24003	2265002042	Construction and Mining Equipment - Cement and Mortar Mixers - Non-Road Gasoline	SO2	0.001157708
2021	24003	2265002045	Construction and Mining Equipment - Cranes - Non-Road Gasoline	SO2	8.78281E-05
2021	24003	2265002054	Construction and Mining Equipment - Crushing/Processing Equipment - Non-Road Gasoline	SO2	0.000155708
2021	24003	2265002057	Construction and Mining Equipment - Rough Terrain Forklifts - Non-Road Gasoline	SO2	0.000135927
2021	24003	2265002060	Construction and Mining Equipment - Rubber Tire Loaders - Non-Road Gasoline	SO2	0.000331157
2021	24003	2265002066	Construction and Mining Equipment - Tractors/Loaders/Backhoes - Non-Road Gasoline	SO2	0.000792889
2021	24003	2265002072	Construction and Mining Equipment - Skid Steer Loaders - Non-Road Gasoline	SO2	0.000531196
2021	24003	2265002078	Construction and Mining Equipment - Dumpers/Tenders - Non-Road Gasoline	SO2	0.00017796
2021	24003	2265002081	Construction and Mining Equipment - Other Construction Equipment - Non-Road Gasoline	SO2	0.000119219
2021	24003	2265003010	Industrial Equipment - Aerial Lifts - Non-Road Gasoline	SO2	0.000153221
2021	24003	2265003020	Industrial Equipment - Forklifts - Non-Road Gasoline	SO2	0.000422133
2021	24003	2265003030	Industrial Equipment - Sweepers/Scrubbers - Non-Road Gasoline	SO2	0.000106908
2021	24003	2265003040	Industrial Equipment - Other General Industrial Equipment - Non-Road Gasoline	SO2	0.00019933
2021	24003	2265003050	Industrial Equipment - Other Material Handling Equipment - Non-Road Gasoline	SO2	9.79143E-06
2021	24003	2265003060	Industrial Equipment - AC\Refrigeration - Non-Road Gasoline	SO2	7.20189E-06
2021	24003	2265003070	Industrial Equipment - Terminal Tractors - Non-Road Gasoline	SO2	4.32037E-05
2021	24003	2265004010	Lawn and Garden Equipment - Lawn Mowers (Residential) - Non-Road Gasoline	SO2	0.022948249
2021	24003	2265004011	Lawn and Garden Equipment - Lawn Mowers (Commercial) - Non-Road Gasoline	SO2	0.030333565
2021	24003	2265004015	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Residential) - Non-Road Gasoline	SO2	0.001923675
2021	24003	2265004016	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.015637155
2021	24003	2265004025	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Residential) - Non-Road Gasoline	SO2	0.000127179
2021	24003	2265004026	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Commercial) - Non-Road Gasoline	SO2	0.000702415
2021	24003	2265004030	Lawn and Garden Equipment - Leafblowers/Vacuums (Residential) - Non-Road Gasoline	SO2	0.000242617
2021	24003	2265004031	Lawn and Garden Equipment - Leafblowers/Vacuums (Commercial) - Non-Road Gasoline	SO2	0.02877483
2021	24003	2265004035	Lawn and Garden Equipment - Snowblowers (Residential) - Non-Road Gasoline	SO2	0.002515031
2021	24003	2265004036	Lawn and Garden Equipment - Snowblowers (Commercial) - Non-Road Gasoline	SO2	0.009882783
2021	24003	2265004040	Lawn and Garden Equipment - Rear Engine Riding Mowers (Residential) - Non-Road Gasoline	SO2	0.004517868
2021	24003	2265004041	Lawn and Garden Equipment - Rear Engine Riding Mowers (Commercial) - Non-Road Gasoline	SO2	0.003341544
2021	24003	2265004046	Lawn and Garden Equipment - Front Mowers (Commercial) - Non-Road Gasoline	SO2	0.003772004
2021	24003	2265004051	Lawn and Garden Equipment - Shredders < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.001801857
2021	24003	2265004055	Lawn and Garden Equipment - Lawn and Garden Tractors (Residential) - Non-Road Gasoline	SO2	0.060565774

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24003	2265004056	Lawn and Garden Equipment - Lawn and Garden Tractors (Commercial) - Non-Road Gasoline	SO2	0.045413024
2021	24003	2265004066	Lawn and Garden Equipment - Chippers/Stump Grinders (Commercial) - Non-Road Gasoline	SO2	0.007578562
2021	24003	2265004071	Lawn and Garden Equipment - Turf Equipment (Commercial) - Non-Road Gasoline	SO2	0.146593929
2021	24003	2265004075	Lawn and Garden Equipment - Other Lawn and Garden Equipment (Residential) - Non-Road Gasoline	SO2	0.002152704
2021	24003	2265004076	Lawn and Garden Equipment - Other Lawn and Garden Equipment (Commercial) - Non-Road Gasoline	SO2	0.004504723
2021	24003	2265005010	Agricultural Equipment - 2-Wheel Tractors - Non-Road Gasoline	SO2	5.76854E-06
2021	24003	2265005015	Agricultural Equipment - Agricultural Tractors - Non-Road Gasoline	SO2	2.22269E-05
2021	24003	2265005020	Agricultural Equipment - Combines - Non-Road Gasoline	SO2	1.3461E-07
2021	24003	2265005025	Agricultural Equipment - Balers - Non-Road Gasoline	SO2	1.45318E-05
2021	24003	2265005030	Agricultural Equipment - Agricultural Mowers - Non-Road Gasoline	SO2	4.77319E-06
2021	24003	2265005035	Agricultural Equipment - Sprayers - Non-Road Gasoline	SO2	5.10583E-05
2021	24003	2265005040	Agricultural Equipment - Tillers : 6 HP - Non-Road Gasoline	SO2	0.000106097
2021	24003	2265005045	Agricultural Equipment - Swathers - Non-Road Gasoline	SO2	2.30604E-05
2021	24003	2265005055	Agricultural Equipment - Other Agricultural Equipment - Non-Road Gasoline	SO2	3.37845E-05
2021	24003	2265005060	Agricultural Equipment - Irrigation Sets - Non-Road Gasoline	SO2	3.87562E-05
2021	24003	2265006005	Commercial Equipment - Generator Sets - Non-Road Gasoline	SO2	0.053971316
2021	24003	2265006010	Commercial Equipment - Pumps - Non-Road Gasoline	SO2	0.013465685
2021	24003	2265006015	Commercial Equipment - Air Compressors - Non-Road Gasoline	SO2	0.007123579
2021	24003	2265006025	Commercial Equipment - Welders - Non-Road Gasoline	SO2	0.015338266
2021	24003	2265006030	Commercial Equipment - Pressure Washers - Non-Road Gasoline	SO2	0.024261758
2021	24003	2265006035	Commercial Equipment - Hydro-power Units - Non-Road Gasoline	SO2	0.001139364
2021	24003	2265007010	Logging Equipment - Shredders : 6 HP - Non-Road Gasoline	SO2	0.000315354
2021	24003	2265007015	Logging Equipment - Forest Eqp - Feller/Bunch/Skidder - Non-Road Gasoline	SO2	3.73764E-06
2021	24003	2265008005	Airport Ground Support Equipment - Airport Ground Support Equipment - Non-Road Gasoline	SO2	0.001983054
2021	24003	2265010010	Industrial Equipment - Other Oil Field Equipment - Non-Road Gasoline	SO2	8.84648E-37
2021	24003	2267001060	Recreational Equipment - Specialty Vehicles/Carts - Other	SO2	7.06623E-05
2021	24003	2267002003	Construction and Mining Equipment - Pavers - Other	SO2	6.22786E-05
2021	24003	2267002015	Construction and Mining Equipment - Rollers - Other	SO2	0.00010624
2021	24003	2267002021	Construction and Mining Equipment - Paving Equipment - Other	SO2	1.67814E-05
2021	24003	2267002024	Construction and Mining Equipment - Surfacing Equipment - Other	SO2	1.08734E-05
2021	24003	2267002030	Construction and Mining Equipment - Trenchers - Other	SO2	0.000191446
2021	24003	2267002033	Construction and Mining Equipment - Bore/Drill Rigs - Other	SO2	6.69924E-05
2021	24003	2267002039	Construction and Mining Equipment - Concrete/Industrial Saws - Other	SO2	0.00018114
2021	24003	2267002045	Construction and Mining Equipment - Cranes - Other	SO2	6.82948E-05
2021	24003	2267002054	Construction and Mining Equipment - Crushing/Processing Equipment - Other	SO2	1.10287E-05
2021	24003	2267002057	Construction and Mining Equipment - Rough Terrain Forklifts - Other	SO2	0.000122035
2021	24003	2267002060	Construction and Mining Equipment - Rubber Tire Loaders - Other	SO2	0.000303041

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24003	2267002066	Construction and Mining Equipment - Tractors/Loaders/Backhoes - Other	SO2	3.18251E-05
2021	24003	2267002072	Construction and Mining Equipment - Skid Steer Loaders - Other	SO2	0.000252984
2021	24003	2267002081	Construction and Mining Equipment - Other Construction Equipment - Other	SO2	0.000103125
2021	24003	2267003010	Industrial Equipment - Aerial Lifts - Other	SO2	0.000928275
2021	24003	2267003020	Industrial Equipment - Forklifts - Other	SO2	0.085531409
2021	24003	2267003030	Industrial Equipment - Sweepers/Scrubbers - Other	SO2	0.000650231
2021	24003	2267003040	Industrial Equipment - Other General Industrial Equipment - Other	SO2	0.000201119
2021	24003	2267003050	Industrial Equipment - Other Material Handling Equipment - Other	SO2	4.96607E-05
2021	24003	2267003070	Industrial Equipment - Terminal Tractors - Other	SO2	0.000397287
2021	24003	2267004066	Lawn and Garden Equipment - Chippers/Stump Grinders (Commercial) - Other	SO2	0.002027184
2021	24003	2267005055	Agricultural Equipment - Other Agricultural Equipment - Other	SO2	1.49394E-07
2021	24003	2267005060	Agricultural Equipment - Irrigation Sets - Other	SO2	2.1304E-07
2021	24003	2267006005	Commercial Equipment - Generator Sets - Other	SO2	0.005914598
2021	24003	2267006010	Commercial Equipment - Pumps - Other	SO2	0.001333355
2021	24003	2267006015	Commercial Equipment - Air Compressors - Other	SO2	0.001583804
2021	24003	2267006025	Commercial Equipment - Welders - Other	SO2	0.00197453
2021	24003	2267006030	Commercial Equipment - Pressure Washers - Other	SO2	2.59159E-05
2021	24003	2267006035	Commercial Equipment - Hydro-power Units - Other	SO2	2.48643E-05
2021	24003	2267008005	Airport Ground Support Equipment - Airport Ground Support Equipment - Other	SO2	0.001640611
2021	24003	2268002081	Construction and Mining Equipment - Other Construction Equipment - Other	SO2	3.91131E-06
2021	24003	2268003020	Industrial Equipment - Forklifts - Other	SO2	0.005779617
2021	24003	2268003030	Industrial Equipment - Sweepers/Scrubbers - Other	SO2	6.56819E-06
2021	24003	2268003040	Industrial Equipment - Other General Industrial Equipment - Other	SO2	3.57923E-06
2021	24003	2268003060	Industrial Equipment - AC\Refrigeration - Other	SO2	2.07177E-05
2021	24003	2268003070	Industrial Equipment - Terminal Tractors - Other	SO2	2.66303E-05
2021	24003	2268005055	Agricultural Equipment - Other Agricultural Equipment - Other	SO2	1.71327E-08
2021	24003	2268006005	Commercial Equipment - Generator Sets - Other	SO2	0.00145038
2021	24003	2268006010	Commercial Equipment - Pumps - Other	SO2	7.29844E-05
2021	24003	2268006015	Commercial Equipment - Air Compressors - Other	SO2	0.000102505
2021	24003	2268006020	Commercial Equipment - Gas Compressors - Other	SO2	0.003612601
2021	24003	2268010010	Industrial Equipment - Other Oil Field Equipment - Other	SO2	5.65969E-39
2021	24003	2270001060	Recreational Equipment - Specialty Vehicles/Carts - Non-Road Diesel	SO2	0.001982583
2021	24003	2270002003	Construction and Mining Equipment - Pavers - Non-Road Diesel	SO2	0.010828805
2021	24003	2270002006	Construction and Mining Equipment - Tampers/Rammers - Non-Road Diesel	SO2	2.35696E-05
2021	24003	2270002009	Construction and Mining Equipment - Plate Compactors - Non-Road Diesel	SO2	0.000388278
2021	24003	2270002015	Construction and Mining Equipment - Rollers - Non-Road Diesel	SO2	0.027723521
2021	24003	2270002018	Construction and Mining Equipment - Scrapers - Non-Road Diesel	SO2	0.030239643

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24003	2270002021	Construction and Mining Equipment - Paving Equipment - Non-Road Diesel	SO2	0.001730777
2021	24003	2270002024	Construction and Mining Equipment - Surfacing Equipment - Non-Road Diesel	SO2	0.001116637
2021	24003	2270002027	Construction and Mining Equipment - Signal Boards/Light Plants - Non-Road Diesel	SO2	0.003719055
2021	24003	2270002030	Construction and Mining Equipment - Trenchers - Non-Road Diesel	SO2	0.01365325
2021	24003	2270002033	Construction and Mining Equipment - Bore/Drill Rigs - Non-Road Diesel	SO2	0.012715796
2021	24003	2270002036	Construction and Mining Equipment - Excavators - Non-Road Diesel	SO2	0.107235605
2021	24003	2270002039	Construction and Mining Equipment - Concrete/Industrial Saws - Non-Road Diesel	SO2	0.000962295
2021	24003	2270002042	Construction and Mining Equipment - Cement and Mortar Mixers - Non-Road Diesel	SO2	0.000516353
2021	24003	2270002045	Construction and Mining Equipment - Cranes - Non-Road Diesel	SO2	0.026134624
2021	24003	2270002048	Construction and Mining Equipment - Graders - Non-Road Diesel	SO2	0.026820702
2021	24003	2270002051	Construction and Mining Equipment - Off-highway Trucks - Non-Road Diesel	SO2	0.090601754
2021	24003	2270002054	Construction and Mining Equipment - Crushing/Processing Equipment - Non-Road Diesel	SO2	0.004712834
2021	24003	2270002057	Construction and Mining Equipment - Rough Terrain Forklifts - Non-Road Diesel	SO2	0.036738998
2021	24003	2270002060	Construction and Mining Equipment - Rubber Tire Loaders - Non-Road Diesel	SO2	0.124384104
2021	24003	2270002066	Construction and Mining Equipment - Tractors/Loaders/Backhoes - Non-Road Diesel	SO2	0.08240226
2021	24003	2270002069	Construction and Mining Equipment - Crawler Tractor/Dozers - Non-Road Diesel	SO2	0.110203062
2021	24003	2270002072	Construction and Mining Equipment - Skid Steer Loaders - Non-Road Diesel	SO2	0.058270527
2021	24003	2270002075	Construction and Mining Equipment - Off-highway Tractors - Non-Road Diesel	SO2	0.012353558
2021	24003	2270002078	Construction and Mining Equipment - Dumpers/Tenders - Non-Road Diesel	SO2	0.000186184
2021	24003	2270002081	Construction and Mining Equipment - Other Construction Equipment - Non-Road Diesel	SO2	0.012426348
2021	24003	2270003010	Industrial Equipment - Aerial Lifts - Non-Road Diesel	SO2	0.00195444
2021	24003	2270003020	Industrial Equipment - Forklifts - Non-Road Diesel	SO2	0.022739745
2021	24003	2270003030	Industrial Equipment - Sweepers/Scrubbers - Non-Road Diesel	SO2	0.010260686
2021	24003	2270003040	Industrial Equipment - Other General Industrial Equipment - Non-Road Diesel	SO2	0.011065293
2021	24003	2270003050	Industrial Equipment - Other Material Handling Equipment - Non-Road Diesel	SO2	0.000471558
2021	24003	2270003060	Industrial Equipment - AC\Refrigeration - Non-Road Diesel	SO2	0.055348216
2021	24003	2270003070	Industrial Equipment - Terminal Tractors - Non-Road Diesel	SO2	0.014389552
2021	24003	2270004031	Lawn and Garden Equipment - Leafblowers/Vacuums (Commercial) - Non-Road Diesel	SO2	4.43183E-06
2021	24003	2270004036	Lawn and Garden Equipment - Snowblowers (Commercial) - Non-Road Diesel	SO2	0.001071387
2021	24003	2270004046	Lawn and Garden Equipment - Front Mowers (Commercial) - Non-Road Diesel	SO2	0.029693382
2021	24003	2270004056	Lawn and Garden Equipment - Lawn and Garden Tractors (Commercial) - Non-Road Diesel	SO2	0.006726532
2021	24003	2270004066	Lawn and Garden Equipment - Chippers/Stump Grinders (Commercial) - Non-Road Diesel	SO2	0.038680146
2021	24003	2270004071	Lawn and Garden Equipment - Turf Equipment (Commercial) - Non-Road Diesel	SO2	0.004093092
2021	24003	2270004076	Lawn and Garden Equipment - Other Lawn and Garden Equipment (Commercial) - Non-Road Diesel	SO2	0.00011505
2021	24003	2270005010	Agricultural Equipment - 2-Wheel Tractors - Non-Road Diesel	SO2	4.76228E-07
2021	24003	2270005015	Agricultural Equipment - Agricultural Tractors - Non-Road Diesel	SO2	0.017145952
2021	24003	2270005020	Agricultural Equipment - Combines - Non-Road Diesel	SO2	0.00160467

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24003	2270005025	Agricultural Equipment - Balers - Non-Road Diesel	SO2	9.05014E-06
2021	24003	2270005030	Agricultural Equipment - Agricultural Mowers - Non-Road Diesel	SO2	1.81798E-06
2021	24003	2270005035	Agricultural Equipment - Sprayers - Non-Road Diesel	SO2	0.000136408
2021	24003	2270005040	Agricultural Equipment - Tillers : 6 HP - Non-Road Diesel	SO2	3.40543E-07
2021	24003	2270005045	Agricultural Equipment - Swathers - Non-Road Diesel	SO2	0.000127148
2021	24003	2270005055	Agricultural Equipment - Other Agricultural Equipment - Non-Road Diesel	SO2	0.000344341
2021	24003	2270005060	Agricultural Equipment - Irrigation Sets - Non-Road Diesel	SO2	0.00023994
2021	24003	2270006005	Commercial Equipment - Generator Sets - Non-Road Diesel	SO2	0.040973
2021	24003	2270006010	Commercial Equipment - Pumps - Non-Road Diesel	SO2	0.009653445
2021	24003	2270006015	Commercial Equipment - Air Compressors - Non-Road Diesel	SO2	0.024336666
2021	24003	2270006025	Commercial Equipment - Welders - Non-Road Diesel	SO2	0.013699429
2021	24003	2270006030	Commercial Equipment - Pressure Washers - Non-Road Diesel	SO2	0.001322703
2021	24003	2270006035	Commercial Equipment - Hydro-power Units - Non-Road Diesel	SO2	0.001063236
2021	24003	2270007015	Logging Equipment - Forest Eqp - Feller/Bunch/Skidder - Non-Road Diesel	SO2	0.00268363
2021	24003	2270008005	Airport Ground Support Equipment - Airport Ground Support Equipment - Non-Road Diesel	SO2	0.122364083
2021	24003	2270009010	Underground Mining Equipment - Other Underground Mining Equipment - Non-Road Diesel	SO2	2.98786E-36
2021	24003	2270010010	Industrial Equipment - Other Oil Field Equipment - Non-Road Diesel	SO2	7.83256E-36
2021	24003	2282005010	Gasoline 2-Stroke - Outboard - Non-Road Gasoline	SO2	0.048062586
2021	24003	2282005015	Gasoline 2-Stroke - Personal Water Craft - Non-Road Gasoline	SO2	0.020334455
2021	24003	2282010005	Gasoline 4-Stroke - Inboard/Sterndrive - Non-Road Gasoline	SO2	0.037729576
2021	24003	2282020005	Diesel - Inboard/Sterndrive - Non-Road Diesel	SO2	0.209698606
2021	24003	2282020010	Diesel - Outboard - Non-Road Diesel	SO2	0.00068401
2021	24003	2285002015	Diesel - Railway Maintenance - Non-Road Diesel	SO2	0.001059953
2021	24003	2285004015	Gasoline, 4-Stroke - Railway Maintenance - Non-Road Gasoline	SO2	4.33866E-05
2021	24003	2285006015	LPG - Railway Maintenance - Other	SO2	1.19801E-06
2021	<b>24003 Total</b>				2.278



Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24005	2260001010	Recreational Equipment - Motorcycles: Off-road - Non-Road Gasoline	SO2	0.003
2021	24005	2260001020	Recreational Equipment - Snowmobiles - Non-Road Gasoline	SO2	0.000
2021	24005	2260001030	Recreational Equipment - All Terrain Vehicles - Non-Road Gasoline	SO2	0.003
2021	24005	2260001060	Recreational Equipment - Specialty Vehicles/Carts - Non-Road Gasoline	SO2	0.001
2021	24005	2260002006	Construction and Mining Equipment - Tampers/Rammers - Non-Road Gasoline	SO2	0.001
2021	24005	2260002009	Construction and Mining Equipment - Plate Compactors - Non-Road Gasoline	SO2	0.000
2021	24005	2260002021	Construction and Mining Equipment - Paving Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2260002027	Construction and Mining Equipment - Signal Boards/Light Plants - Non-Road Gasoline	SO2	0.000
2021	24005	2260002039	Construction and Mining Equipment - Concrete/Industrial Saws - Non-Road Gasoline	SO2	0.002
2021	24005	2260002054	Construction and Mining Equipment - Crushing/Processing Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2260003030	Industrial Equipment - Sweepers/Scrubbers - Non-Road Gasoline	SO2	0.000
2021	24005	2260003040	Industrial Equipment - Other General Industrial Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2260004015	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Residential) - Non-Road Gasoline	SO2	0.000
2021	24005	2260004016	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.001
2021	24005	2260004020	Lawn and Garden Equipment - Chain Saws < 6 HP (Residential) - Non-Road Gasoline	SO2	0.003
2021	24005	2260004021	Lawn and Garden Equipment - Chain Saws < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.014
2021	24005	2260004025	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Residential) - Non-Road Gasoline	SO2	0.004
2021	24005	2260004026	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Commercial) - Non-Road Gasoline	SO2	0.012
2021	24005	2260004030	Lawn and Garden Equipment - Leafblowers/Vacuums (Residential) - Non-Road Gasoline	SO2	0.003
2021	24005	2260004031	Lawn and Garden Equipment - Leafblowers/Vacuums (Commercial) - Non-Road Gasoline	SO2	0.012
2021	24005	2260004035	Lawn and Garden Equipment - Snowblowers (Residential) - Non-Road Gasoline	SO2	0.001
2021	24005	2260004036	Lawn and Garden Equipment - Snowblowers (Commercial) - Non-Road Gasoline	SO2	0.004
2021	24005	2260004071	Lawn and Garden Equipment - Turf Equipment (Commercial) - Non-Road Gasoline	SO2	0.000
2021	24005	2260005035	Agricultural Equipment - Sprayers - Non-Road Gasoline	SO2	0.000
2021	24005	2260006005	Commercial Equipment - Generator Sets - Non-Road Gasoline	SO2	0.000
2021	24005	2260006010	Commercial Equipment - Pumps - Non-Road Gasoline	SO2	0.003
2021	24005	2260006015	Commercial Equipment - Air Compressors - Non-Road Gasoline	SO2	0.000
2021	24005	2260006035	Commercial Equipment - Hydro-power Units - Non-Road Gasoline	SO2	0.000
2021	24005	2260007005	Logging Equipment - Chain Saws : 6 HP - Non-Road Gasoline	SO2	0.000
2021	24005	2265001010	Recreational Equipment - Motorcycles: Off-road - Non-Road Gasoline	SO2	0.001
2021	24005	2265001030	Recreational Equipment - All Terrain Vehicles - Non-Road Gasoline	SO2	0.012
2021	24005	2265001050	Recreational Equipment - Golf Carts - Non-Road Gasoline	SO2	0.010
2021	24005	2265001060	Recreational Equipment - Specialty Vehicles/Carts - Non-Road Gasoline	SO2	0.001
2021	24005	2265002003	Construction and Mining Equipment - Pavers - Non-Road Gasoline	SO2	0.001
2021	24005	2265002006	Construction and Mining Equipment - Tampers/Rammers - Non-Road Gasoline	SO2	0.000
2021	24005	2265002009	Construction and Mining Equipment - Plate Compactors - Non-Road Gasoline	SO2	0.002
2021	24005	2265002015	Construction and Mining Equipment - Rollers - Non-Road Gasoline	SO2	0.002

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24005	2265002021	Construction and Mining Equipment - Paving Equipment - Non-Road Gasoline	SO2	0.003
2021	24005	2265002024	Construction and Mining Equipment - Surfacing Equipment - Non-Road Gasoline	SO2	0.001
2021	24005	2265002027	Construction and Mining Equipment - Signal Boards/Light Plants - Non-Road Gasoline	SO2	0.000
2021	24005	2265002030	Construction and Mining Equipment - Trenchers - Non-Road Gasoline	SO2	0.003
2021	24005	2265002033	Construction and Mining Equipment - Bore/Drill Rigs - Non-Road Gasoline	SO2	0.001
2021	24005	2265002039	Construction and Mining Equipment - Concrete/Industrial Saws - Non-Road Gasoline	SO2	0.006
2021	24005	2265002042	Construction and Mining Equipment - Cement and Mortar Mixers - Non-Road Gasoline	SO2	0.003
2021	24005	2265002045	Construction and Mining Equipment - Cranes - Non-Road Gasoline	SO2	0.000
2021	24005	2265002054	Construction and Mining Equipment - Crushing/Processing Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2265002057	Construction and Mining Equipment - Rough Terrain Forklifts - Non-Road Gasoline	SO2	0.000
2021	24005	2265002060	Construction and Mining Equipment - Rubber Tire Loaders - Non-Road Gasoline	SO2	0.001
2021	24005	2265002066	Construction and Mining Equipment - Tractors/Loaders/Backhoes - Non-Road Gasoline	SO2	0.002
2021	24005	2265002072	Construction and Mining Equipment - Skid Steer Loaders - Non-Road Gasoline	SO2	0.001
2021	24005	2265002078	Construction and Mining Equipment - Dumpers/Tenders - Non-Road Gasoline	SO2	0.000
2021	24005	2265002081	Construction and Mining Equipment - Other Construction Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2265003010	Industrial Equipment - Aerial Lifts - Non-Road Gasoline	SO2	0.000
2021	24005	2265003020	Industrial Equipment - Forklifts - Non-Road Gasoline	SO2	0.001
2021	24005	2265003030	Industrial Equipment - Sweepers/Scrubbers - Non-Road Gasoline	SO2	0.000
2021	24005	2265003040	Industrial Equipment - Other General Industrial Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2265003050	Industrial Equipment - Other Material Handling Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2265003060	Industrial Equipment - AC\Refrigeration - Non-Road Gasoline	SO2	0.000
2021	24005	2265003070	Industrial Equipment - Terminal Tractors - Non-Road Gasoline	SO2	0.000
2021	24005	2265004010	Lawn and Garden Equipment - Lawn Mowers (Residential) - Non-Road Gasoline	SO2	0.038
2021	24005	2265004011	Lawn and Garden Equipment - Lawn Mowers (Commercial) - Non-Road Gasoline	SO2	0.036
2021	24005	2265004015	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Residential) - Non-Road Gasoline	SO2	0.003
2021	24005	2265004016	Lawn and Garden Equipment - Rotary Tillers < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.019
2021	24005	2265004025	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Residential) - Non-Road Gasoline	SO2	0.000
2021	24005	2265004026	Lawn and Garden Equipment - Trimmers/Edgers/Brush Cutters (Commercial) - Non-Road Gasoline	SO2	0.001
2021	24005	2265004030	Lawn and Garden Equipment - Leafblowers/Vacuums (Residential) - Non-Road Gasoline	SO2	0.000
2021	24005	2265004031	Lawn and Garden Equipment - Leafblowers/Vacuums (Commercial) - Non-Road Gasoline	SO2	0.035
2021	24005	2265004035	Lawn and Garden Equipment - Snowblowers (Residential) - Non-Road Gasoline	SO2	0.004
2021	24005	2265004036	Lawn and Garden Equipment - Snowblowers (Commercial) - Non-Road Gasoline	SO2	0.012
2021	24005	2265004040	Lawn and Garden Equipment - Rear Engine Riding Mowers (Residential) - Non-Road Gasoline	SO2	0.007
2021	24005	2265004041	Lawn and Garden Equipment - Rear Engine Riding Mowers (Commercial) - Non-Road Gasoline	SO2	0.004
2021	24005	2265004046	Lawn and Garden Equipment - Front Mowers (Commercial) - Non-Road Gasoline	SO2	0.005
2021	24005	2265004051	Lawn and Garden Equipment - Shredders < 6 HP (Commercial) - Non-Road Gasoline	SO2	0.002
2021	24005	2265004055	Lawn and Garden Equipment - Lawn and Garden Tractors (Residential) - Non-Road Gasoline	SO2	0.100

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24005	2265004056	Lawn and Garden Equipment - Lawn and Garden Tractors (Commercial) - Non-Road Gasoline	SO2	0.055
2021	24005	2265004066	Lawn and Garden Equipment - Chippers/Stump Grinders (Commercial) - Non-Road Gasoline	SO2	0.009
2021	24005	2265004071	Lawn and Garden Equipment - Turf Equipment (Commercial) - Non-Road Gasoline	SO2	0.176
2021	24005	2265004075	Lawn and Garden Equipment - Other Lawn and Garden Equipment (Residential) - Non-Road Gasoline	SO2	0.004
2021	24005	2265004076	Lawn and Garden Equipment - Other Lawn and Garden Equipment (Commercial) - Non-Road Gasoline	SO2	0.005
2021	24005	2265005010	Agricultural Equipment - 2-Wheel Tractors - Non-Road Gasoline	SO2	0.000
2021	24005	2265005015	Agricultural Equipment - Agricultural Tractors - Non-Road Gasoline	SO2	0.000
2021	24005	2265005020	Agricultural Equipment - Combines - Non-Road Gasoline	SO2	0.000
2021	24005	2265005025	Agricultural Equipment - Balers - Non-Road Gasoline	SO2	0.000
2021	24005	2265005030	Agricultural Equipment - Agricultural Mowers - Non-Road Gasoline	SO2	0.000
2021	24005	2265005035	Agricultural Equipment - Sprayers - Non-Road Gasoline	SO2	0.000
2021	24005	2265005040	Agricultural Equipment - Tillers : 6 HP - Non-Road Gasoline	SO2	0.000
2021	24005	2265005045	Agricultural Equipment - Swathers - Non-Road Gasoline	SO2	0.000
2021	24005	2265005055	Agricultural Equipment - Other Agricultural Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2265005060	Agricultural Equipment - Irrigation Sets - Non-Road Gasoline	SO2	0.000
2021	24005	2265006005	Commercial Equipment - Generator Sets - Non-Road Gasoline	SO2	0.083
2021	24005	2265006010	Commercial Equipment - Pumps - Non-Road Gasoline	SO2	0.021
2021	24005	2265006015	Commercial Equipment - Air Compressors - Non-Road Gasoline	SO2	0.011
2021	24005	2265006025	Commercial Equipment - Welders - Non-Road Gasoline	SO2	0.023
2021	24005	2265006030	Commercial Equipment - Pressure Washers - Non-Road Gasoline	SO2	0.037
2021	24005	2265006035	Commercial Equipment - Hydro-power Units - Non-Road Gasoline	SO2	0.002
2021	24005	2265007010	Logging Equipment - Shredders : 6 HP - Non-Road Gasoline	SO2	0.000
2021	24005	2265007015	Logging Equipment - Forest Eqp - Feller/Bunch/Skidder - Non-Road Gasoline	SO2	0.000
2021	24005	2265008005	Airport Ground Support Equipment - Airport Ground Support Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2265010010	Industrial Equipment - Other Oil Field Equipment - Non-Road Gasoline	SO2	0.000
2021	24005	2267001060	Recreational Equipment - Specialty Vehicles/Carts - Other	SO2	0.000
2021	24005	2267002003	Construction and Mining Equipment - Pavers - Other	SO2	0.000
2021	24005	2267002015	Construction and Mining Equipment - Rollers - Other	SO2	0.000
2021	24005	2267002021	Construction and Mining Equipment - Paving Equipment - Other	SO2	0.000
2021	24005	2267002024	Construction and Mining Equipment - Surfacing Equipment - Other	SO2	0.000
2021	24005	2267002030	Construction and Mining Equipment - Trenchers - Other	SO2	0.000
2021	24005	2267002033	Construction and Mining Equipment - Bore/Drill Rigs - Other	SO2	0.000
2021	24005	2267002039	Construction and Mining Equipment - Concrete/Industrial Saws - Other	SO2	0.000
2021	24005	2267002045	Construction and Mining Equipment - Cranes - Other	SO2	0.000
2021	24005	2267002054	Construction and Mining Equipment - Crushing/Processing Equipment - Other	SO2	0.000
2021	24005	2267002057	Construction and Mining Equipment - Rough Terrain Forklifts - Other	SO2	0.000
2021	24005	2267002060	Construction and Mining Equipment - Rubber Tire Loaders - Other	SO2	0.001



Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24005	2267002066	Construction and Mining Equipment - Tractors/Loaders/Backhoes - Other	SO2	0.000
2021	24005	2267002072	Construction and Mining Equipment - Skid Steer Loaders - Other	SO2	0.001
2021	24005	2267002081	Construction and Mining Equipment - Other Construction Equipment - Other	SO2	0.000
2021	24005	2267003010	Industrial Equipment - Aerial Lifts - Other	SO2	0.002
2021	24005	2267003020	Industrial Equipment - Forklifts - Other	SO2	0.157
2021	24005	2267003030	Industrial Equipment - Sweepers/Scrubbers - Other	SO2	0.001
2021	24005	2267003040	Industrial Equipment - Other General Industrial Equipment - Other	SO2	0.000
2021	24005	2267003050	Industrial Equipment - Other Material Handling Equipment - Other	SO2	0.000
2021	24005	2267003070	Industrial Equipment - Terminal Tractors - Other	SO2	0.001
2021	24005	2267004066	Lawn and Garden Equipment - Chippers/Stump Grinders (Commercial) - Other	SO2	0.002
2021	24005	2267005055	Agricultural Equipment - Other Agricultural Equipment - Other	SO2	0.000
2021	24005	2267005060	Agricultural Equipment - Irrigation Sets - Other	SO2	0.000
2021	24005	2267006005	Commercial Equipment - Generator Sets - Other	SO2	0.009
2021	24005	2267006010	Commercial Equipment - Pumps - Other	SO2	0.002
2021	24005	2267006015	Commercial Equipment - Air Compressors - Other	SO2	0.002
2021	24005	2267006025	Commercial Equipment - Welders - Other	SO2	0.003
2021	24005	2267006030	Commercial Equipment - Pressure Washers - Other	SO2	0.000
2021	24005	2267006035	Commercial Equipment - Hydro-power Units - Other	SO2	0.000
2021	24005	2267008005	Airport Ground Support Equipment - Airport Ground Support Equipment - Other	SO2	0.000
2021	24005	2268002081	Construction and Mining Equipment - Other Construction Equipment - Other	SO2	0.000
2021	24005	2268003020	Industrial Equipment - Forklifts - Other	SO2	0.011
2021	24005	2268003030	Industrial Equipment - Sweepers/Scrubbers - Other	SO2	0.000
2021	24005	2268003040	Industrial Equipment - Other General Industrial Equipment - Other	SO2	0.000
2021	24005	2268003060	Industrial Equipment - AC\Refrigeration - Other	SO2	0.000
2021	24005	2268003070	Industrial Equipment - Terminal Tractors - Other	SO2	0.000
2021	24005	2268005055	Agricultural Equipment - Other Agricultural Equipment - Other	SO2	0.000
2021	24005	2268006005	Commercial Equipment - Generator Sets - Other	SO2	0.002
2021	24005	2268006010	Commercial Equipment - Pumps - Other	SO2	0.000
2021	24005	2268006015	Commercial Equipment - Air Compressors - Other	SO2	0.000
2021	24005	2268006020	Commercial Equipment - Gas Compressors - Other	SO2	0.006
2021	24005	2268010010	Industrial Equipment - Other Oil Field Equipment - Other	SO2	0.000
2021	24005	2270001060	Recreational Equipment - Specialty Vehicles/Carts - Non-Road Diesel	SO2	0.001
2021	24005	2270002003	Construction and Mining Equipment - Pavers - Non-Road Diesel	SO2	0.025
2021	24005	2270002006	Construction and Mining Equipment - Tampers/Rammers - Non-Road Diesel	SO2	0.000
2021	24005	2270002009	Construction and Mining Equipment - Plate Compactors - Non-Road Diesel	SO2	0.001
2021	24005	2270002015	Construction and Mining Equipment - Rollers - Non-Road Diesel	SO2	0.064
2021	24005	2270002018	Construction and Mining Equipment - Scrapers - Non-Road Diesel	SO2	0.070

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24005	2270002021	Construction and Mining Equipment - Paving Equipment - Non-Road Diesel	SO2	0.004
2021	24005	2270002024	Construction and Mining Equipment - Surfacing Equipment - Non-Road Diesel	SO2	0.003
2021	24005	2270002027	Construction and Mining Equipment - Signal Boards/Light Plants - Non-Road Diesel	SO2	0.009
2021	24005	2270002030	Construction and Mining Equipment - Trenchers - Non-Road Diesel	SO2	0.032
2021	24005	2270002033	Construction and Mining Equipment - Bore/Drill Rigs - Non-Road Diesel	SO2	0.029
2021	24005	2270002036	Construction and Mining Equipment - Excavators - Non-Road Diesel	SO2	0.248
2021	24005	2270002039	Construction and Mining Equipment - Concrete/Industrial Saws - Non-Road Diesel	SO2	0.002
2021	24005	2270002042	Construction and Mining Equipment - Cement and Mortar Mixers - Non-Road Diesel	SO2	0.001
2021	24005	2270002045	Construction and Mining Equipment - Cranes - Non-Road Diesel	SO2	0.061
2021	24005	2270002048	Construction and Mining Equipment - Graders - Non-Road Diesel	SO2	0.062
2021	24005	2270002051	Construction and Mining Equipment - Off-highway Trucks - Non-Road Diesel	SO2	0.210
2021	24005	2270002054	Construction and Mining Equipment - Crushing/Processing Equipment - Non-Road Diesel	SO2	0.011
2021	24005	2270002057	Construction and Mining Equipment - Rough Terrain Forklifts - Non-Road Diesel	SO2	0.085
2021	24005	2270002060	Construction and Mining Equipment - Rubber Tire Loaders - Non-Road Diesel	SO2	0.288
2021	24005	2270002066	Construction and Mining Equipment - Tractors/Loaders/Backhoes - Non-Road Diesel	SO2	0.191
2021	24005	2270002069	Construction and Mining Equipment - Crawler Tractor/Dozers - Non-Road Diesel	SO2	0.255
2021	24005	2270002072	Construction and Mining Equipment - Skid Steer Loaders - Non-Road Diesel	SO2	0.135
2021	24005	2270002075	Construction and Mining Equipment - Off-highway Tractors - Non-Road Diesel	SO2	0.029
2021	24005	2270002078	Construction and Mining Equipment - Dumpers/Tenders - Non-Road Diesel	SO2	0.000
2021	24005	2270002081	Construction and Mining Equipment - Other Construction Equipment - Non-Road Diesel	SO2	0.029
2021	24005	2270003010	Industrial Equipment - Aerial Lifts - Non-Road Diesel	SO2	0.004
2021	24005	2270003020	Industrial Equipment - Forklifts - Non-Road Diesel	SO2	0.042
2021	24005	2270003030	Industrial Equipment - Sweepers/Scrubbers - Non-Road Diesel	SO2	0.019
2021	24005	2270003040	Industrial Equipment - Other General Industrial Equipment - Non-Road Diesel	SO2	0.020
2021	24005	2270003050	Industrial Equipment - Other Material Handling Equipment - Non-Road Diesel	SO2	0.001
2021	24005	2270003060	Industrial Equipment - AC\Refrigeration - Non-Road Diesel	SO2	0.085
2021	24005	2270003070	Industrial Equipment - Terminal Tractors - Non-Road Diesel	SO2	0.026
2021	24005	2270004031	Lawn and Garden Equipment - Leafblowers/Vacuums (Commercial) - Non-Road Diesel	SO2	0.000
2021	24005	2270004036	Lawn and Garden Equipment - Snowblowers (Commercial) - Non-Road Diesel	SO2	0.001
2021	24005	2270004046	Lawn and Garden Equipment - Front Mowers (Commercial) - Non-Road Diesel	SO2	0.036
2021	24005	2270004056	Lawn and Garden Equipment - Lawn and Garden Tractors (Commercial) - Non-Road Diesel	SO2	0.008
2021	24005	2270004066	Lawn and Garden Equipment - Chippers/Stump Grinders (Commercial) - Non-Road Diesel	SO2	0.046
2021	24005	2270004071	Lawn and Garden Equipment - Turf Equipment (Commercial) - Non-Road Diesel	SO2	0.005
2021	24005	2270004076	Lawn and Garden Equipment - Other Lawn and Garden Equipment (Commercial) - Non-Road Diesel	SO2	0.000
2021	24005	2270005010	Agricultural Equipment - 2-Wheel Tractors - Non-Road Diesel	SO2	0.000
2021	24005	2270005015	Agricultural Equipment - Agricultural Tractors - Non-Road Diesel	SO2	0.035
2021	24005	2270005020	Agricultural Equipment - Combines - Non-Road Diesel	SO2	0.003

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)
2021	24005	2270005025	Agricultural Equipment - Balers - Non-Road Diesel	SO2	0.000
2021	24005	2270005030	Agricultural Equipment - Agricultural Mowers - Non-Road Diesel	SO2	0.000
2021	24005	2270005035	Agricultural Equipment - Sprayers - Non-Road Diesel	SO2	0.000
2021	24005	2270005040	Agricultural Equipment - Tillers : 6 HP - Non-Road Diesel	SO2	0.000
2021	24005	2270005045	Agricultural Equipment - Swathers - Non-Road Diesel	SO2	0.000
2021	24005	2270005055	Agricultural Equipment - Other Agricultural Equipment - Non-Road Diesel	SO2	0.001
2021	24005	2270005060	Agricultural Equipment - Irrigation Sets - Non-Road Diesel	SO2	0.000
2021	24005	2270006005	Commercial Equipment - Generator Sets - Non-Road Diesel	SO2	0.063
2021	24005	2270006010	Commercial Equipment - Pumps - Non-Road Diesel	SO2	0.015
2021	24005	2270006015	Commercial Equipment - Air Compressors - Non-Road Diesel	SO2	0.037
2021	24005	2270006025	Commercial Equipment - Welders - Non-Road Diesel	SO2	0.021
2021	24005	2270006030	Commercial Equipment - Pressure Washers - Non-Road Diesel	SO2	0.002
2021	24005	2270006035	Commercial Equipment - Hydro-power Units - Non-Road Diesel	SO2	0.002
2021	24005	2270007015	Logging Equipment - Forest Eqp - Feller/Bunch/Skidder - Non-Road Diesel	SO2	0.001
2021	24005	2270008005	Airport Ground Support Equipment - Airport Ground Support Equipment - Non-Road Diesel	SO2	0.000
2021	24005	2270009010	Underground Mining Equipment - Other Underground Mining Equipment - Non-Road Diesel	SO2	0.000
2021	24005	2270010010	Industrial Equipment - Other Oil Field Equipment - Non-Road Diesel	SO2	0.000
2021	24005	2282005010	Gasoline 2-Stroke - Outboard - Non-Road Gasoline	SO2	0.037
2021	24005	2282005015	Gasoline 2-Stroke - Personal Water Craft - Non-Road Gasoline	SO2	0.016
2021	24005	2282010005	Gasoline 4-Stroke - Inboard/Sterndrive - Non-Road Gasoline	SO2	0.022
2021	24005	2282020005	Diesel - Inboard/Sterndrive - Non-Road Diesel	SO2	0.120
2021	24005	2282020010	Diesel - Outboard - Non-Road Diesel	SO2	0.001
2021	24005	2285002015	Diesel - Railway Maintenance - Non-Road Diesel	SO2	0.002
2021	24005	2285004015	Gasoline, 4-Stroke - Railway Maintenance - Non-Road Gasoline	SO2	0.000
2021	24005	2285006015	LPG - Railway Maintenance - Other	SO2	0.000

2021 **24005 Total** 3.531

2021 **Grand Total** 5.809

## Appendix A-7: Nonroad Marine-Aircraft-Railroads

Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)	Growth Code	2021 Growth Factor	2021 Emissions
2014	24003	2275001000	Aircraft /Military Aircraft /Total	SO2	0.188045	EMP_24_NAICS=481	1.0410	0.195751524
2014	24003	2275020000	Aircraft /Commercial Aircraft /Total: All Types	SO2	0.002840	EMP_24_NAICS=481	1.0410	0.00295639
2014	24003	2275050000	Aircraft /General Aviation /Total	SO2	1.600700	EMP_24_NAICS=481	1.0410	1.666300429
2014	24003	2275060000	Aircraft /Air Taxi /Total	SO2	0.000000	EMP_24_NAICS=481	1.0410	0
2014	24003	2280002100	Marine Vessels, Commercial /Diesel /Port emissions	SO2	0.044269	EMP_24_NAICS=483	1.1551	0.05113341
2014	24003	2280002200	Marine Vessels, Commercial /Diesel /Underway emissions	SO2	0.029192	EMP_24_NAICS=483	1.1551	0.033718254
2014	24003	2280003100	Marine Vessels, Commercial /Residual /Port emissions	SO2	15.820030	EMP_24_NAICS=483	1.1551	18.27323545
2014	24003	2280003200	Marine Vessels, Commercial /Residual /Underway emissions	SO2	89.834000	EMP_24_NAICS=483	1.1551	103.7645209
2014	24003	2285002006	Railroad Equipment /Diesel /Line Haul Locomotives: Class I Operations	SO2	0.010370	EMP_24_NAICS=482	1.0000	0.010369582
2014	24003	2285002009	Railroad Equipment /Diesel /Line Haul Locomotives: Commuter Lines	SO2	0.017956	EMP_24_NAICS=482	1.0000	0.017956287
2014	24003	2285002010	Railroad Equipment /Diesel /Yard Locomotives	SO2	0.004148	EMP_24_NAICS=482	1.0000	0.00414765
2014	24005	2275001000	Aircraft /Military Aircraft /Total	SO2	0.300061	EMP_24_NAICS=481	1.0410	0.31235841
2014	24005	2275020000	Aircraft /Commercial Aircraft /Total: All Types	SO2	0.519230	EMP_24_NAICS=481	1.0410	0.540509442
2014	24005	2275050000	Aircraft /General Aviation /Total	SO2	4.108719	EMP_24_NAICS=481	1.0410	4.277103828
2014	24005	2275060000	Aircraft /Air Taxi /Total	SO2	1.726439	EMP_24_NAICS=481	1.0410	1.797192542
2014	24005	2280002100	Marine Vessels, Commercial /Diesel /Port emissions	SO2	0.220411	EMP_24_NAICS=483	1.1551	0.254590169
2014	24005	2280002200	Marine Vessels, Commercial /Diesel /Underway emissions	SO2	0.006353	EMP_24_NAICS=483	1.1551	0.007338255
2014	24005	2280003100	Marine Vessels, Commercial /Residual /Port emissions	SO2	77.425000	EMP_24_NAICS=483	1.1551	89.43126243
2014	24005	2280003200	Marine Vessels, Commercial /Residual /Underway emissions	SO2	35.358400	EMP_24_NAICS=483	1.1551	40.84141233
2014	24005	2285002006	Railroad Equipment /Diesel /Line Haul Locomotives: Class I Operations	SO2	0.052729	EMP_24_NAICS=482	1.0000	0.05272881
2014	24005	2285002009	Railroad Equipment /Diesel /Line Haul Locomotives: Commuter Lines	SO2	0.016900	EMP_24_NAICS=482	1.0000	0.016900035
2014	24005	2285002010	Railroad Equipment /Diesel /Yard Locomotives	SO2	0.009092	EMP_24_NAICS=482	1.0000	0.009091944
					227.294883			261.560578

**Maryland Department of the Environment (MDE)**  
**Air and Radiation Administration (ARA)**  
**Mobile Sources Control Program (MSCP)**

<b>Model: MOVES2014</b>						
2014 PEI Annual Emissions Summary Criteria Pollutants (Based on the <a href="#">MDMOVES14</a> PPSuite Process with 2014 Updates)						
Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)	Growth Factor
2014	24003	ALL	ALL	SO2	40.355	N/A for the baseline
2014	24005	ALL	ALL	SO2	56.508	N/A for the baseline

Updated Modeling						
<b>Model: MOVES2014a</b>						
2014 and 2021 Updated Annual Emissions Summary for SO2 (Based on the <a href="#">MDMOVES14a</a> PPSuite Process with 2014 Updates)						
Year	State County FIPS	SCC	SCC Description	Pollutant Code	Annual Emissions (Tons/Yr)	Growth Factor
2014	24003	ALL	ALL	SO2	<b>40.223</b>	N/A for the baseline
	24005	ALL	ALL	SO2	<b>56.326</b>	N/A for the baseline
2021	24003	ALL	ALL	SO2	<b>20.359</b>	Based on HPMS-VMT historic growth
	24005	ALL	ALL	SO2	<b>27.644</b>	Based on HPMS-VMT historic growth

## Appendix A-9: EGU Emission Reduction Documentation

Facility / Unit	SO <sub>2</sub> Reduction Summary (from a 2014 Baseline)
Brandon Shores Unit 1	No Change
Brandon Shores Unit 2	No Change
Wagner Unit 3	<p>Wagner Unit 3 does not have any operational constraints and is therefore considered more of a baseload unit. Emission reductions were estimated from the 2014 baseline by analyzing hourly emission values for the unit. The 2014 reported hourly emissions were normalized to the 30-day rolling average permit limit. For every hour of operation (represented by an SO<sub>2</sub> emission value), the 30-day rolling average permit limit was subtracted from the actual reported emission. The resulting hourly emission value can be positive or negative. The sum of these hourly values represents the maximum annual SO<sub>2</sub> emissions allowable under the 30-day rolling average permit limit from the 2014 baseline. This sum was then subtracted from the actual 2014 emissions to estimate the emission reductions.</p>
Wagner Unit 1	No Change
Wagner Unit 2	<p>Unit will either shut down or convert to natural gas. In either case the expected SO<sub>2</sub> emissions will approach zero. The emission reductions were estimated from the 2014 baseline by setting the SO<sub>2</sub> emissions from the unit to zero.</p>
Wagner Unit 4	No Change
C.P. Crane Unit 1	<p>Emission reductions were estimated from the 2014 baseline by analyzing hourly emission values for the unit. Any hourly value that exceeded the permit limit was reduced to the permit limit emission rate of 1450 lbs SO<sub>2</sub> per hour. The sum of these hourly changes for the year is reported as an expected reduction.</p>
C.P. Crane Unit 2	<p>Emission reductions were estimated from the 2014 baseline by analyzing hourly emission values for the unit. Any hourly value that exceeded the permit limit was reduced to the permit limit emission rate of 1450 lbs SO<sub>2</sub> per hour. The sum of these hourly changes for the year is reported as an expected reduction.</p>

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	1-Jan-12	0	0	113.3		435.7				552
2012	1-Jan-12	1	0	94.2		433.6				492.6
2012	1-Jan-12	2	0	118.1		437.9				419.6
2012	1-Jan-12	3	0	130.1		412.1				522.9
2012	1-Jan-12	4	0	102.1		423.2				720.8
2012	1-Jan-12	5	0	97.2		426.1				748.3
2012	1-Jan-12	6	0	119.5		422.4				747.7
2012	1-Jan-12	7	0	132.5		423.3				752.9
2012	1-Jan-12	8	0	108.7		430.3				706
2012	1-Jan-12	9	0	101.3		429.9				654.9
2012	1-Jan-12	10	1.2	105.8		431				630.7
2012	1-Jan-12	11	0	65.4		432.1				730.2
2012	1-Jan-12	12	0	55.2		436.5			0	736.5
2012	1-Jan-12	13	0	42.7		440			0	
2012	1-Jan-12	14	0	88		417.6			0	
2012	1-Jan-12	15	0	125.5		424.4			3.8	
2012	1-Jan-12	16	0	60.2		430.2			17.8	
2012	1-Jan-12	17	0	73.4		430.8			25.5	
2012	1-Jan-12	18	0	103.7		434.5			27.8	
2012	1-Jan-12	19	0	130.2		435.7			31.2	
2012	1-Jan-12	20	0	75.6		434.9			30	
2012	1-Jan-12	21	2.7	29.5		435.8			46.7	
2012	1-Jan-12	22	2.8	22.5		439.3			52.7	
2012	1-Jan-12	23	1.4	97.7		439.5			37.1	
2012	2-Jan-12	0	5.7	75.9		441.2			32.7	
2012	2-Jan-12	1	4.3	81.8		444			73.4	
2012	2-Jan-12	2	2.7	95.7		407.6			76.3	
2012	2-Jan-12	3	1.3	112.8		421.3			93.9	
2012	2-Jan-12	4	1.3	83		425.1			128.7	
2012	2-Jan-12	5	3.9	70.6		430.6			213.6	
2012	2-Jan-12	6	4.9	92.8		432.6			242.8	
2012	2-Jan-12	7	5	98.6		431.4			274.4	
2012	2-Jan-12	8	5	67.7		437.8			317.4	
2012	2-Jan-12	9	4.9	83.4		438.8			348.4	
2012	2-Jan-12	10	1.2	99.7		436.3			423.6	
2012	2-Jan-12	11	1.1	73.2		433.7			425.2	
2012	2-Jan-12	12	0	46.6		433.6			424.2	
2012	2-Jan-12	13	0	56.3		437.7			424.3	
2012	2-Jan-12	14	0	80.9		439.2			418.6	
2012	2-Jan-12	15	0	85		437.9			412.1	
2012	2-Jan-12	16	0	86		411.9			411.2	0.09
2012	2-Jan-12	17	0	132.2		572.7			431.3	1.672
2012	2-Jan-12	18	0	509.9		1331.4			480.9	5.7
2012	2-Jan-12	19	0	439.5		1778.2			504.8	2.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	2-Jan-12	20	0	239.9		1968.2			482.9	7.8
2012	2-Jan-12	21	1.1	195.5		1474.6			450.8	8.4
2012	2-Jan-12	22	10.5	175.2		868.6			408.7	23
2012	2-Jan-12	23	15.1	112.6		419.1			407	4.6
2012	3-Jan-12	0	29.8	63.7		405			404.3	62.4
2012	3-Jan-12	1	22.5	62.1		419.1			404	159.6
2012	3-Jan-12	2	25.1	52.4		437.4			396.9	283.4
2012	3-Jan-12	3	35.7	67.6		1018.8			516.1	358.5
2012	3-Jan-12	4	169.7	98.6		1692.5			612.2	369.9
2012	3-Jan-12	5	295.5	114.5		2105.3			593.2	406.9
2012	3-Jan-12	6	305.3	176.4		2058			567.8	413.6
2012	3-Jan-12	7	636.2	256.9		2022.8			566.5	429.8
2012	3-Jan-12	8	799.7	184.8		1727.4			497.7	429.1
2012	3-Jan-12	9	528.1	137.9		1579.4			454.1	503
2012	3-Jan-12	10	261.2	141.4		1579			422.8	465.1
2012	3-Jan-12	11	72.8	143.4		1553.6			420.6	412.1
2012	3-Jan-12	12	75.9	134.6		1581.3			452.2	408.3
2012	3-Jan-12	13	27.3	174.4		1493.5			467.9	402.7
2012	3-Jan-12	14	18.4	199.8		1477.7			440.6	400.1
2012	3-Jan-12	15	15.2	171		1553.7			458.1	395.9
2012	3-Jan-12	16	55.1	135.4		1560.5			441.4	494.9
2012	3-Jan-12	17	106.9	193.3		1856.5			479.2	642.1
2012	3-Jan-12	18	219.1	291.1		1986.4			500.7	667.1
2012	3-Jan-12	19	325.8	309.4		1941.6			558.3	667.4
2012	3-Jan-12	20	341.4	291.6		1913.1			576.9	679.7
2012	3-Jan-12	21	310	312.4		1602.6			500.1	599.5
2012	3-Jan-12	22	354.9	475.7		1235.2			456.6	464.8
2012	3-Jan-12	23	264.8	297.6		522.4			425.9	403.1
2012	4-Jan-12	0	297.4	186.6		380.4			441.6	435.4
2012	4-Jan-12	1	105.5	157.7		408.7			456.6	445.5
2012	4-Jan-12	2	62.1	279.1		415.6			459.2	408.9
2012	4-Jan-12	3	13.7	349.8		498.9			454.1	423.7
2012	4-Jan-12	4	85.6	404.3		1423			533.7	448.6
2012	4-Jan-12	5	360.6	484.8		1924.2			594.5	446
2012	4-Jan-12	6	278.4	274.8		1980.5			575.2	463.1
2012	4-Jan-12	7	266.3	234.4		1918.5			567.5	606
2012	4-Jan-12	8	250.3	206.3		1713.9			474.3	687.9
2012	4-Jan-12	9	170.4	210.1		1571.3			469.3	685
2012	4-Jan-12	10	157.3	192.1		1804.4			493.5	590.6
2012	4-Jan-12	11	63.6	190.5		1643.2			477.2	509.2
2012	4-Jan-12	12	88.2	65.6		1514.9			432.7	519
2012	4-Jan-12	13	34	54.2		1520			425.2	526.1
2012	4-Jan-12	14	25.8	73.2		1543.2			411.7	523.6
2012	4-Jan-12	15	67.8	153.4		1423.9			430.6	521.3



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-Jan-12	16	39.3	123.4		1365.6			404.6	522.8
2012	4-Jan-12	17	27.3	155.3		1735.2			347.4	632.9
2012	4-Jan-12	18	15.3	269.5		1878.6			350.9	672
2012	4-Jan-12	19	25.4	318.7		1609.7			379.7	673.3
2012	4-Jan-12	20	283.4	301.3		1687.9			492.9	673.4
2012	4-Jan-12	21	456.5	278		1729			501.5	648
2012	4-Jan-12	22	291.4	285.5		1012.7			464.6	628.3
2012	4-Jan-12	23	192.5	230.7		441.4			478.2	667.7
2012	5-Jan-12	0	56.8	157.7		407.1			487.4	591.9
2012	5-Jan-12	1	42	141.5		414.8			465.3	636.5
2012	5-Jan-12	2	19.4	174.8		422.1			469.4	558.5
2012	5-Jan-12	3	15.4	142.9		424.9			477.6	576
2012	5-Jan-12	4	40	156.8		421.3			476	583
2012	5-Jan-12	5	54.8	277.6		1000.8			462.4	573.8
2012	5-Jan-12	6	217.9	467.7		1900.9			456.9	658.6
2012	5-Jan-12	7	431	268.7		1987			449.7	635.4
2012	5-Jan-12	8	322	130.7		1974.6			448.2	592.2
2012	5-Jan-12	9	204.5	97		1517.8			444.5	616.3
2012	5-Jan-12	10	113.4	76.8		1217.5			447	594.9
2012	5-Jan-12	11	51.7	69.7		498.6			447.6	556.8
2012	5-Jan-12	12	122.4	96.1		409.9			472.9	533.6
2012	5-Jan-12	13	106.2	115.8		438.4			480.7	534.7
2012	5-Jan-12	14	74.1	100.9		443.9			465.9	527.5
2012	5-Jan-12	15	50.9	71.8		428.2			439.3	527.6
2012	5-Jan-12	16	36.4	67.2		416.1			427.4	522.8
2012	5-Jan-12	17	40	86.1		431.8			423.1	526.7
2012	5-Jan-12	18	43	105.9		581.2			397.3	528.3
2012	5-Jan-12	19	18.5	127.7		459.9			215.6	529.5
2012	5-Jan-12	20	76.9	137.9		625.1			130.1	542.2
2012	5-Jan-12	21	100.1	122.5		413.9			145.9	600.4
2012	5-Jan-12	22	44.8	109.6		423.7			150	625.6
2012	5-Jan-12	23	38.6	95.2		431.3			157.3	625.7
2012	6-Jan-12	0	59.5	78.2		435.7			74.588	583.8
2012	6-Jan-12	1	90.5	67.1		436.9				606
2012	6-Jan-12	2	6.5	73.7		432.5				642.3
2012	6-Jan-12	3		68.7		431.5				606.2
2012	6-Jan-12	4		62.7		434				533.9
2012	6-Jan-12	5		68.9		433.5				472.4
2012	6-Jan-12	6		168.4		943.3				358.3
2012	6-Jan-12	7		248.3		1740				302.4
2012	6-Jan-12	8		299.7		2147.9				276
2012	6-Jan-12	9		312.1		2112.8				209
2012	6-Jan-12	10		328.4		2090.2				204.63
2012	6-Jan-12	11		231.9		2083.8				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	6-Jan-12	12		254.3		2103.3				
2012	6-Jan-12	13		254.9		2060.7				
2012	6-Jan-12	14		281.9		1448				
2012	6-Jan-12	15		230.2		680				
2012	6-Jan-12	16		194.3		413.5				
2012	6-Jan-12	17		241		470.3				
2012	6-Jan-12	18		244.1		400.5				
2012	6-Jan-12	19		179.1		394.3				
2012	6-Jan-12	20		93.6		398.3				
2012	6-Jan-12	21		74		405.3				
2012	6-Jan-12	22		91.3		406.4				
2012	6-Jan-12	23		82.4		408.2				
2012	7-Jan-12	0		74.3		406.7				
2012	7-Jan-12	1		79.1		395.6				
2012	7-Jan-12	2		78.1		402.1				
2012	7-Jan-12	3		64.5		402.7				
2012	7-Jan-12	4		66.4		408.6				
2012	7-Jan-12	5		67.3		406.6				
2012	7-Jan-12	6		56.4		409.5				
2012	7-Jan-12	7		49.9		426				
2012	7-Jan-12	8		55.4		433.8				
2012	7-Jan-12	9		61.8		433.2				
2012	7-Jan-12	10		74.3		439				
2012	7-Jan-12	11		21.4		437.8				
2012	7-Jan-12	12		32.3		443.1				
2012	7-Jan-12	13		56.7		444.5				
2012	7-Jan-12	14		79.1		441.2				
2012	7-Jan-12	15		79.2		437.4				
2012	7-Jan-12	16		77.9		445.5				
2012	7-Jan-12	17		91.9		442.5				
2012	7-Jan-12	18		141		439.7				
2012	7-Jan-12	19		99.1		446.2				
2012	7-Jan-12	20		79.4		447				
2012	7-Jan-12	21		91.8		449				
2012	7-Jan-12	22		115.3		449.9				
2012	7-Jan-12	23		117.5		448.3				
2012	8-Jan-12	0		134		447.4				
2012	8-Jan-12	1		156.8		455.3				
2012	8-Jan-12	2		350.6		434.3				
2012	8-Jan-12	3		181.7		433.5				
2012	8-Jan-12	4		123.7		428.7				
2012	8-Jan-12	5		127.5		435.3				
2012	8-Jan-12	6		145.4		433.4				
2012	8-Jan-12	7		129.1		422.8				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-Jan-12	8		132.4		429.1				
2012	8-Jan-12	9		132.9		431.5				
2012	8-Jan-12	10		133.1		431.3				
2012	8-Jan-12	11		27.2		446.9				
2012	8-Jan-12	12		50.7		447.1				
2012	8-Jan-12	13		46.3		450.1				
2012	8-Jan-12	14		63.8		446.7				
2012	8-Jan-12	15		57.3		452.4				
2012	8-Jan-12	16		41.9		454.2				
2012	8-Jan-12	17		70.8		824.6				
2012	8-Jan-12	18		212.6		748.6				
2012	8-Jan-12	19		229.4		441				
2012	8-Jan-12	20		198.5		436.1				
2012	8-Jan-12	21		132.2		442				
2012	8-Jan-12	22		159.7		443				
2012	8-Jan-12	23		137		445.1				
2012	9-Jan-12	0		138.2		446.9				
2012	9-Jan-12	1		88.4		445.4				
2012	9-Jan-12	2		98.2		448.8				
2012	9-Jan-12	3		98.5		452.7				
2012	9-Jan-12	4		85.6		454.1				
2012	9-Jan-12	5		104.3		634.7				
2012	9-Jan-12	6		227.7		1388.3				
2012	9-Jan-12	7		282.1		1528.3				
2012	9-Jan-12	8		288.9		1719.1				
2012	9-Jan-12	9		397.8		1445.3				
2012	9-Jan-12	10		456.4		1646.5				
2012	9-Jan-12	11		275.4		1782.9				
2012	9-Jan-12	12		143.4		633.1				
2012	9-Jan-12	13		99.7		430.6				
2012	9-Jan-12	14		120.1		441.2				
2012	9-Jan-12	15		106.9		445.1				
2012	9-Jan-12	16		93.8		444.8				
2012	9-Jan-12	17		95.3		684.3				
2012	9-Jan-12	18		239.7		1297.9				
2012	9-Jan-12	19		443.3		569.3				
2012	9-Jan-12	20		471.9		421.2				
2012	9-Jan-12	21		362.1		431.2				
2012	9-Jan-12	22		339.1		441.8				
2012	9-Jan-12	23		238.8		445.7				
2012	10-Jan-12	0		186.7		445.9				
2012	10-Jan-12	1		147.9		450.3				
2012	10-Jan-12	2		160		453.9				
2012	10-Jan-12	3		151.4		464.7				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-Jan-12	4		140.7		489.8				
2012	10-Jan-12	5		159.9		482.4				
2012	10-Jan-12	6		218.5		833.3				
2012	10-Jan-12	7		276.8		1618.9				
2012	10-Jan-12	8		372		703.6				
2012	10-Jan-12	9		444.5		423.2				
2012	10-Jan-12	10		380.4		434.8				
2012	10-Jan-12	11		194.8		448.9				
2012	10-Jan-12	12		128.5		462.9				
2012	10-Jan-12	13		130.9		405.6				
2012	10-Jan-12	14		182.9		475.3				
2012	10-Jan-12	15		197.8		475.6				
2012	10-Jan-12	16		198		454.5				
2012	10-Jan-12	17		238.1		723.3				
2012	10-Jan-12	18		368		1283.5				
2012	10-Jan-12	19		414.7		540.2				
2012	10-Jan-12	20		586.2		439.9				
2012	10-Jan-12	21		543.7		466.8				
2012	10-Jan-12	22		475.8		470.1				
2012	10-Jan-12	23		315.3		477.1				
2012	11-Jan-12	0		230.1		449.8				
2012	11-Jan-12	1		203.3		457.6				
2012	11-Jan-12	2		254.2		460.8				
2012	11-Jan-12	3		257.1		461				
2012	11-Jan-12	4		358.2		462.2				
2012	11-Jan-12	5		498.1		465.5				
2012	11-Jan-12	6		676.4		850.9				
2012	11-Jan-12	7		1018.2		2140.1				
2012	11-Jan-12	8		1070.8		2131.8				
2012	11-Jan-12	9		1033.1		1751.2				
2012	11-Jan-12	10		899.8		861.4				
2012	11-Jan-12	11		445.2		416.7				
2012	11-Jan-12	12		371.8		422				
2012	11-Jan-12	13		371.7		441.9				
2012	11-Jan-12	14		350.1		470.7				
2012	11-Jan-12	15		308		467.3				
2012	11-Jan-12	16		340.6		455.5				
2012	11-Jan-12	17		420		1121.2				
2012	11-Jan-12	18		522.4		1649.6				
2012	11-Jan-12	19		512		1964.1				
2012	11-Jan-12	20		566.9		1894.2				
2012	11-Jan-12	21		445.8		1082.7				
2012	11-Jan-12	22		407.9		456.3				
2012	11-Jan-12	23		354.3		434.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	12-Jan-12	0		273.4		433.2				
2012	12-Jan-12	1		167.9		441.7				
2012	12-Jan-12	2		147		434.8				
2012	12-Jan-12	3		121.1		449.6				
2012	12-Jan-12	4		110.5		452.8				
2012	12-Jan-12	5		120.1		463.5				
2012	12-Jan-12	6		203.8		513.6				
2012	12-Jan-12	7		308.1		475				
2012	12-Jan-12	8		324.3		452.9				
2012	12-Jan-12	9		348.7		449.2				
2012	12-Jan-12	10		411.3		467.2				
2012	12-Jan-12	11		338.9		472.1				
2012	12-Jan-12	12		122.7		472.1				
2012	12-Jan-12	13		98.8		478.4				
2012	12-Jan-12	14		114.2		482.8				
2012	12-Jan-12	15		109.5		478.6				
2012	12-Jan-12	16		88.8		449.8				
2012	12-Jan-12	17		91.5		548.4				
2012	12-Jan-12	18		131.9		554.9				
2012	12-Jan-12	19		299		537.7				
2012	12-Jan-12	20		432.1		471.1				
2012	12-Jan-12	21		390		468.5				
2012	12-Jan-12	22		400.2		464.8				
2012	12-Jan-12	23		294.4		463.4				
2012	13-Jan-12	0		201.4		454.2				
2012	13-Jan-12	1		181.7		456.5				
2012	13-Jan-12	2		234		460.1				
2012	13-Jan-12	3		200.7		449.7				
2012	13-Jan-12	4		306.1		980.4				
2012	13-Jan-12	5		342.1		1848				
2012	13-Jan-12	6		760.8		2210.6				
2012	13-Jan-12	7		952.7		2215.5				
2012	13-Jan-12	8		829.3		2232.9				
2012	13-Jan-12	9		771.4		2197.9				
2012	13-Jan-12	10		773.1		2136.2				
2012	13-Jan-12	11		321		2177.8				
2012	13-Jan-12	12		211		1968.9				
2012	13-Jan-12	13		247.6		1907.5				
2012	13-Jan-12	14		398.1		1642				
2012	13-Jan-12	15		416		1302.6				
2012	13-Jan-12	16		347.9		1925.6				
2012	13-Jan-12	17		347.9		2164.9				
2012	13-Jan-12	18		421.8		2119.7				
2012	13-Jan-12	19		392		1849.4				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	13-Jan-12	20		323.9		1802.6				
2012	13-Jan-12	21		322.9		1925.1				
2012	13-Jan-12	22		449.5		1448.6				
2012	13-Jan-12	23		402.3		1594.1				
2012	14-Jan-12	0		318.2		604.9				
2012	14-Jan-12	1		267.8		362.3				
2012	14-Jan-12	2		235.5		418.9				
2012	14-Jan-12	3		213.9		432.7				
2012	14-Jan-12	4		211.1		489.9				
2012	14-Jan-12	5		242.4		691.9				
2012	14-Jan-12	6		580.1		1453.9				
2012	14-Jan-12	7		783.8		2153.4				
2012	14-Jan-12	8		900.3		2150.8				
2012	14-Jan-12	9		935.3		2130				
2012	14-Jan-12	10		838		1878.2				
2012	14-Jan-12	11		359.1		1761.9				
2012	14-Jan-12	12		259.2		1463.8				
2012	14-Jan-12	13		237.8		947.4				
2012	14-Jan-12	14		219.2		480				
2012	14-Jan-12	15		169.1		436.6				
2012	14-Jan-12	16		142.3		493.9				
2012	14-Jan-12	17		298.4		1398.3				
2012	14-Jan-12	18		351.7		2102.1				
2012	14-Jan-12	19		304.1		2128.4				
2012	14-Jan-12	20		304.9		2093.2				
2012	14-Jan-12	21		309.7		1625.2				
2012	14-Jan-12	22		273.1		964.1				
2012	14-Jan-12	23		176		492.3				
2012	15-Jan-12	0		147.2		426.2				
2012	15-Jan-12	1		279.6		438.3				
2012	15-Jan-12	2		220.9		439.3				
2012	15-Jan-12	3		172.3		434.8				
2012	15-Jan-12	4		136.8		439.3				
2012	15-Jan-12	5		110		442.6				
2012	15-Jan-12	6		181.1		1052.5				
2012	15-Jan-12	7		335.7		1892.6				
2012	15-Jan-12	8		453.9		1979.6				
2012	15-Jan-12	9		366.6		1653.9				
2012	15-Jan-12	10		280.6		1264.1				
2012	15-Jan-12	11		121.5		586.2				
2012	15-Jan-12	12		74		555.3				
2012	15-Jan-12	13		115.8		512.3				
2012	15-Jan-12	14		80.3		514.9				
2012	15-Jan-12	15		71.5		433.6				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-Jan-12	16		76.7		445.6				
2012	15-Jan-12	17		84.5		690.8				
2012	15-Jan-12	18		218.9		1476.4				
2012	15-Jan-12	19		336.5		2095.3				
2012	15-Jan-12	20		353.6		2118.8				
2012	15-Jan-12	21		222.8		2084				
2012	15-Jan-12	22		221.8		1584.3				
2012	15-Jan-12	23		239.9		1443				
2012	16-Jan-12	0		211.1		881.4				
2012	16-Jan-12	1		190.2		350.5				
2012	16-Jan-12	2		177		416.1				
2012	16-Jan-12	3		158.7		532.7				
2012	16-Jan-12	4		229.7		1464.3				
2012	16-Jan-12	5		333.3		2171.1				
2012	16-Jan-12	6		400.1		2147.8				
2012	16-Jan-12	7		435.3		2082.2				
2012	16-Jan-12	8		422.2		2106.9				1.512
2012	16-Jan-12	9		370.4		1896.2				1.7
2012	16-Jan-12	10		354.5		2104.3				5.3
2012	16-Jan-12	11		178.9		2017.8				2
2012	16-Jan-12	12		90		1427.3				2
2012	16-Jan-12	13		73.1		953.2				1.9
2012	16-Jan-12	14		80.5		434				1.9
2012	16-Jan-12	15		89.3		443.3				1.9
2012	16-Jan-12	16		232.7		912.4				1.9
2012	16-Jan-12	17		355.5		1530.6				1.8
2012	16-Jan-12	18		497.3		1857.2				1.7
2012	16-Jan-12	19		547.3		1952.5				1.8
2012	16-Jan-12	20		652.7		1704.8				6.1
2012	16-Jan-12	21		651.1		1474.6				1.5
2012	16-Jan-12	22		671.5		705.2				11.1
2012	16-Jan-12	23		509.4		412.4				45.4
2012	17-Jan-12	0		309.2		421.9				112.1
2012	17-Jan-12	1		237		428.9				225.7
2012	17-Jan-12	2		226.7		432.8				382.6
2012	17-Jan-12	3		153.5		435.8				461.1
2012	17-Jan-12	4		100.4		437.2				408
2012	17-Jan-12	5		93.5		431.1				511
2012	17-Jan-12	6		93.4		435.3				708.6
2012	17-Jan-12	7		83.3		468.7				713.5
2012	17-Jan-12	8		95.8		572.4				631.1
2012	17-Jan-12	9		111.6		509				484.8
2012	17-Jan-12	10		126.6		495.4				417.6
2012	17-Jan-12	11		83.9		496.3				404.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	17-Jan-12	12		70.5		507.7				404.3
2012	17-Jan-12	13		86.2		501.9				422.7
2012	17-Jan-12	14		127.1		462.8				421.6
2012	17-Jan-12	15		128		483.3				421.7
2012	17-Jan-12	16		107		495.4				425.2
2012	17-Jan-12	17		108		758.4				419.4
2012	17-Jan-12	18		177.1		1072.2				427.5
2012	17-Jan-12	19		164.3		672.7				432.9
2012	17-Jan-12	20		145.1		524.8				439.9
2012	17-Jan-12	21		148.7		529.9				427.9
2012	17-Jan-12	22		167.7		526.5				462.4
2012	17-Jan-12	23		157.2		512.3				549.2
2012	18-Jan-12	0		131.8		441.5				551.6
2012	18-Jan-12	1		143.6		441.2				551.6
2012	18-Jan-12	2		148.1		447.9				539.5
2012	18-Jan-12	3		143.1		460				547.3
2012	18-Jan-12	4		145.7		444.8				551.9
2012	18-Jan-12	5		135.6		418.7				540.6
2012	18-Jan-12	6		188.6		852.8				509.3
2012	18-Jan-12	7		324.1		1639.7				503.6
2012	18-Jan-12	8		396.1		1367.9				503.8
2012	18-Jan-12	9		439.1		865.2				497.5
2012	18-Jan-12	10		418.3		452.4				483.1
2012	18-Jan-12	11		276.9		453.6				486
2012	18-Jan-12	12		149.7		459.5				479.7
2012	18-Jan-12	13		125.7		472.8				477.1
2012	18-Jan-12	14		167.4		403.9				476.4
2012	18-Jan-12	15		169.9		423.3				469.5
2012	18-Jan-12	16		158.8		437				450.6
2012	18-Jan-12	17		229.7		865.8				519.2
2012	18-Jan-12	18		622.9		2069.8				485.8
2012	18-Jan-12	19		773		2325.5				502.4
2012	18-Jan-12	20		753.8		2315.4				748.1
2012	18-Jan-12	21		754.5		2281.6				734.2
2012	18-Jan-12	22		589.3		1436.5				516.3
2012	18-Jan-12	23		415		1019.1				387.3
2012	19-Jan-12	0		275.2		515.5				464
2012	19-Jan-12	1		247.8		433.8				412.5
2012	19-Jan-12	2		352.5		420.3				493.6
2012	19-Jan-12	3		301.6		425.8				459
2012	19-Jan-12	4		381.1		429				442.7
2012	19-Jan-12	5		579.4		497.8				454.6
2012	19-Jan-12	6		883		1220.8				571.8
2012	19-Jan-12	7		865.4		1826				769.2



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-Jan-12	8		843		1842.4				783.8
2012	19-Jan-12	9		881		1731.1				734.2
2012	19-Jan-12	10		986.5		1273.3				604.6
2012	19-Jan-12	11		574.8		956.6				556.6
2012	19-Jan-12	12		215.7		417.8				458.6
2012	19-Jan-12	13		237.8		454.5				427.5
2012	19-Jan-12	14		263.8		463				419.8
2012	19-Jan-12	15		255.1		469.6				417.6
2012	19-Jan-12	16		423.5		1154.1				538.8
2012	19-Jan-12	17		657.2		1842				713.8
2012	19-Jan-12	18		893.6		2281.6				809.6
2012	19-Jan-12	19		875.9		2304.9				788.7
2012	19-Jan-12	20		802.5		2279.4				787.6
2012	19-Jan-12	21		825		1889.8				670
2012	19-Jan-12	22		581.9		1056				527.8
2012	19-Jan-12	23		350.1		561.7				500.1
2012	20-Jan-12	0		217.4		467.4				442
2012	20-Jan-12	1		160.5		486.7				442.1
2012	20-Jan-12	2		154.5		492.6				440.7
2012	20-Jan-12	3		134.7		493.4				429.7
2012	20-Jan-12	4		116.8		495.7				453.8
2012	20-Jan-12	5		128.9		533.7				445
2012	20-Jan-12	6		233.7		1463.3				651
2012	20-Jan-12	7		321		2151.1				811.9
2012	20-Jan-12	8		583.2		2188.7				802.3
2012	20-Jan-12	9		659		2194.4				777.1
2012	20-Jan-12	10		684.4		2121.1				739
2012	20-Jan-12	11		454.2		1612.4				569.1
2012	20-Jan-12	12		249.9		1032.1				434.9
2012	20-Jan-12	13		229.5		579.1				450.3
2012	20-Jan-12	14		333.6		510.9				453.4
2012	20-Jan-12	15		317.9		537				454.6
2012	20-Jan-12	16		386.4		1110.7				532.6
2012	20-Jan-12	17		539.6		2330.9				776.1
2012	20-Jan-12	18		603.5		2269.8				753.5
2012	20-Jan-12	19		346.2		1889.4				571
2012	20-Jan-12	20		330.5		1646.7				514.8
2012	20-Jan-12	21		267.1		737.4				479.7
2012	20-Jan-12	22		217.1		492.7				518.8
2012	20-Jan-12	23		117.2		460.7				491.4
2012	21-Jan-12	0		133.8		467.6				202.58
2012	21-Jan-12	1		254.5		465.6				
2012	21-Jan-12	2		310.7		468.2				
2012	21-Jan-12	3		317.3		469				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-Jan-12	4		344.5		473.5				
2012	21-Jan-12	5		372.1		473.8				
2012	21-Jan-12	6		557.1		538.9				
2012	21-Jan-12	7		857		779.7				
2012	21-Jan-12	8		1169.7		1493.8				
2012	21-Jan-12	9		1186.9		1607.7				
2012	21-Jan-12	10		1194.9		2022.5				
2012	21-Jan-12	11		718.5		2185				
2012	21-Jan-12	12		559.2		2088.3				
2012	21-Jan-12	13		667.3		1624.5				
2012	21-Jan-12	14		799.8		1175.4				
2012	21-Jan-12	15		839.8		528.4				
2012	21-Jan-12	16		818.7		572				
2012	21-Jan-12	17		707.7		982.2				
2012	21-Jan-12	18		884.7		1294.9				
2012	21-Jan-12	19		802.3		1335.4				
2012	21-Jan-12	20		774.1		1485.5				
2012	21-Jan-12	21		759.6		1173.2				
2012	21-Jan-12	22		728.2		530.3				
2012	21-Jan-12	23		477.4		410.2				
2012	22-Jan-12	0		341.8		418.6				
2012	22-Jan-12	1		306.5		423.7				
2012	22-Jan-12	2		317.6		418.5				
2012	22-Jan-12	3		283		418.8				
2012	22-Jan-12	4		236.2		424.3				
2012	22-Jan-12	5		242.2		579.2				
2012	22-Jan-12	6		401.5		1654.1				
2012	22-Jan-12	7		496		1820.8				
2012	22-Jan-12	8		583		1988.3				
2012	22-Jan-12	9		774.4		1932.2				
2012	22-Jan-12	10		808.3		1508.7				
2012	22-Jan-12	11		628.8		1237.8				
2012	22-Jan-12	12		584.6		540.8				
2012	22-Jan-12	13		866.7		439.2				
2012	22-Jan-12	14		758.3		587.2				
2012	22-Jan-12	15		742.7		474.8				
2012	22-Jan-12	16		702.2		626.6				
2012	22-Jan-12	17		724.8		1622.5				
2012	22-Jan-12	18		847.6		2063.4				
2012	22-Jan-12	19		833.1		2044.9				
2012	22-Jan-12	20		701.5		2034.1				
2012	22-Jan-12	21		635.8		2032.5				
2012	22-Jan-12	22		607.1		2030.9				
2012	22-Jan-12	23		560.6		2032.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	23-Jan-12	0		467.9		2068.9				
2012	23-Jan-12	1		400.6		1586				
2012	23-Jan-12	2		349.5		1027.7				
2012	23-Jan-12	3		281.1		468.4				
2012	23-Jan-12	4		258.1		421.8				
2012	23-Jan-12	5		427.9		948				
2012	23-Jan-12	6		707.6		1918.7				
2012	23-Jan-12	7		718.2		1800				
2012	23-Jan-12	8		861.5		1929.8				
2012	23-Jan-12	9		867.9		2019.7				
2012	23-Jan-12	10		859.1		2065.8				
2012	23-Jan-12	11		779.2		2082.3				
2012	23-Jan-12	12		485.9		2032.8				
2012	23-Jan-12	13		360		1474.6				
2012	23-Jan-12	14		475.9		1024.1				
2012	23-Jan-12	15		346.1		713.4				
2012	23-Jan-12	16		277.2		523.2				
2012	23-Jan-12	17		362.5		1154.5				
2012	23-Jan-12	18		523.4		1463.5				
2012	23-Jan-12	19		538.2		1215.1				
2012	23-Jan-12	20		428.7		517.7				
2012	23-Jan-12	21		261.6		428				
2012	23-Jan-12	22		193.8		438.5				
2012	23-Jan-12	23		182.7		441				
2012	24-Jan-12	0		157.1		443.6				
2012	24-Jan-12	1		137.6		443				
2012	24-Jan-12	2		134.6		432.6				
2012	24-Jan-12	3		129.6		436.5				
2012	24-Jan-12	4		125.8		439.3				
2012	24-Jan-12	5		122.6		440.1				
2012	24-Jan-12	6		152.5		439.5				
2012	24-Jan-12	7		208.1		436.3				
2012	24-Jan-12	8		238.7		442.3				
2012	24-Jan-12	9		273.5		444.5				
2012	24-Jan-12	10		227.3		444				
2012	24-Jan-12	11		137		444.9				
2012	24-Jan-12	12		36.1		450.3				
2012	24-Jan-12	13		34.9		455.5				
2012	24-Jan-12	14		80.6		429.4				
2012	24-Jan-12	15		101.1		429.5				
2012	24-Jan-12	16		82.3		422.9				
2012	24-Jan-12	17		83.8		451.7				
2012	24-Jan-12	18		214.3		500.9				
2012	24-Jan-12	19		233.6		429.9				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	24-Jan-12	20		168.2		432.4				
2012	24-Jan-12	21		149.3		431.5				
2012	24-Jan-12	22		205.2		430.2				
2012	24-Jan-12	23		195.9		422.4				
2012	25-Jan-12	0		145.9		429.5				
2012	25-Jan-12	1		155.1		425.5				
2012	25-Jan-12	2		247.5		440.8				
2012	25-Jan-12	3		224.7		488.9				
2012	25-Jan-12	4		269.2		1620.1				
2012	25-Jan-12	5		413.2		2079.7				
2012	25-Jan-12	6		750.9		2005.2				
2012	25-Jan-12	7		801		1925.8				
2012	25-Jan-12	8		620.6		1803.2				
2012	25-Jan-12	9		404.4		1255.5				
2012	25-Jan-12	10		331.1		912.2				
2012	25-Jan-12	11		250.4		539.8				
2012	25-Jan-12	12		165.9		446.8				
2012	25-Jan-12	13		173.4		453.8				
2012	25-Jan-12	14		223.4		488.6				
2012	25-Jan-12	15		226.4		495.9				
2012	25-Jan-12	16		212.8		496.9				
2012	25-Jan-12	17		267.7		750.6				
2012	25-Jan-12	18		490		1468.5				
2012	25-Jan-12	19		593.5		970.5				
2012	25-Jan-12	20		426		548.3				
2012	25-Jan-12	21		394.7		448.4				
2012	25-Jan-12	22		341.1		447.1				
2012	25-Jan-12	23		261		450.6				
2012	26-Jan-12	0		230.1		457				
2012	26-Jan-12	1		223.2		459.5				
2012	26-Jan-12	2		220.1		451.2				
2012	26-Jan-12	3		188.6		458.2				
2012	26-Jan-12	4		172		462.9				
2012	26-Jan-12	5		170.4		467.2				
2012	26-Jan-12	6		239		491.6				
2012	26-Jan-12	7		269.5		491				
2012	26-Jan-12	8		267.1		433.2				
2012	26-Jan-12	9		267.5		427.4				
2012	26-Jan-12	10		457.7		432.2				
2012	26-Jan-12	11		199.5		435				
2012	26-Jan-12	12		56.1		438.5				
2012	26-Jan-12	13		57.6		441.2				
2012	26-Jan-12	14		119.2		446.1				
2012	26-Jan-12	15		182.1		444				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-Jan-12	16		154.6		446.9				
2012	26-Jan-12	17		228.2		716.7				
2012	26-Jan-12	18		477.9		1316				
2012	26-Jan-12	19		494.2		819.9				
2012	26-Jan-12	20		336.8		446.9				
2012	26-Jan-12	21		233.3		448.8				
2012	26-Jan-12	22		243.3		435.5				
2012	26-Jan-12	23		225.3		449.7				
2012	27-Jan-12	0		175.7		448.2				
2012	27-Jan-12	1		182.7		452.9				
2012	27-Jan-12	2		172.8		453.3				
2012	27-Jan-12	3		141.4		455.6				
2012	27-Jan-12	4		136.6		454.3				
2012	27-Jan-12	5		157.6		463.5				
2012	27-Jan-12	6		188.5		448.9				
2012	27-Jan-12	7		210.9		446.6				
2012	27-Jan-12	8		150.4		458.1				
2012	27-Jan-12	9		157.5		460				
2012	27-Jan-12	10		238		470.6				
2012	27-Jan-12	11		149.4		476.6				
2012	27-Jan-12	12		124.1		476.1				
2012	27-Jan-12	13		109.1		493.2				
2012	27-Jan-12	14		187.1		492.4				
2012	27-Jan-12	15		184.5		482.5				
2012	27-Jan-12	16		124.7		481.9	2.024			
2012	27-Jan-12	17		144		578.3	0.84			
2012	27-Jan-12	18		318.7		519.6				
2012	27-Jan-12	19		288.4		472.6	0			
2012	27-Jan-12	20		186		480.5	139.1			
2012	27-Jan-12	21		148.3		471.1	201.9			
2012	27-Jan-12	22		173.9		478.8	195.6			
2012	27-Jan-12	23		180.3		477.3	197.4			
2012	28-Jan-12	0		145.8		497	203.2			
2012	28-Jan-12	1		153		460.5	200.1			
2012	28-Jan-12	2		169.3		461.6	199.5			
2012	28-Jan-12	3		165.5		454.5	200.5			
2012	28-Jan-12	4		134		452.4	274.6			
2012	28-Jan-12	5		149.7		443.8	295.1			
2012	28-Jan-12	6		172.5		445.6	299.4			
2012	28-Jan-12	7		166.5		438.6	332			
2012	28-Jan-12	8		155.2		447.2	364.9			
2012	28-Jan-12	9		223.6		450.1	381.3			
2012	28-Jan-12	10		252.1		451.2	453.8			
2012	28-Jan-12	11		98.8		448.6	761.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	28-Jan-12	12		76.9		454.1	1082			
2012	28-Jan-12	13		78.1		449.6	1138.5			
2012	28-Jan-12	14		118.8		459.8	1289.9			
2012	28-Jan-12	15		132.4		445	1294.9			
2012	28-Jan-12	16		78.6		442.2	1343.8			
2012	28-Jan-12	17		57.9		451.8	1379.9			
2012	28-Jan-12	18		109.1		722.5	1476.6			
2012	28-Jan-12	19		170		454.7	1412.7			
2012	28-Jan-12	20		108.8		432.4	1462.9			
2012	28-Jan-12	21		127		440.4	1436.8			
2012	28-Jan-12	22		127.7		441.4	1531.6			
2012	28-Jan-12	23		99.9		435.7	1817.5			
2012	29-Jan-12	0		73.2		439.5	2199.2			
2012	29-Jan-12	1		87.4		420.2	2320.3			
2012	29-Jan-12	2		148.7		418.3	2089.3			
2012	29-Jan-12	3		145.8		424.5	1772.7			
2012	29-Jan-12	4		104.9		429.4	1544.5			
2012	29-Jan-12	5		113.4		431.6	1396.7			
2012	29-Jan-12	6		219.5		1064.9	1666.4			
2012	29-Jan-12	7		257.4		1244.4	1841.4			
2012	29-Jan-12	8		291.7		1236.8	1818			
2012	29-Jan-12	9		248.7		1345.4	1687			
2012	29-Jan-12	10		216.2		1005.7	1383.3			
2012	29-Jan-12	11		102.6		464.3	1315.6			
2012	29-Jan-12	12		67.3		440.3	1312			
2012	29-Jan-12	13		98.6		451.5	1312.8			
2012	29-Jan-12	14		102.4		454.2	1265.5			
2012	29-Jan-12	15		96.4		449.3	1330			
2012	29-Jan-12	16		68.2		432.7	1444.8			
2012	29-Jan-12	17		44.9		426.1	1535.5			
2012	29-Jan-12	18		167.4		825.5	1791.6			
2012	29-Jan-12	19		244.9		460.3	1879.6			
2012	29-Jan-12	20		215.4		409.7	1815.4			
2012	29-Jan-12	21		229		419.8	1739			
2012	29-Jan-12	22		218.8		428	1523.5			
2012	29-Jan-12	23		205.9		461.2	1377.2			
2012	30-Jan-12	0		158.8		440.2	1322.9			
2012	30-Jan-12	1		137.9		453.1	1303.6			
2012	30-Jan-12	2		170.1		450.9	1402			
2012	30-Jan-12	3		175.5		451.3	1434.7			
2012	30-Jan-12	4		286.8		823.5	1718			
2012	30-Jan-12	5		506.2		1778.4	1989.7			
2012	30-Jan-12	6		887.6		1614	2056			
2012	30-Jan-12	7		1076.3		2002.2	2242.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	30-Jan-12	8		1028.1		1670	2129.8			
2012	30-Jan-12	9		929.5		1064.1	1878.6			
2012	30-Jan-12	10		616.9		489.2	1735.5			
2012	30-Jan-12	11		225.5		420.3	1722.8			
2012	30-Jan-12	12		161.4		405	1611.8			
2012	30-Jan-12	13		141.7		419.4	1599.8			
2012	30-Jan-12	14		201.4		416.8	1447.1			
2012	30-Jan-12	15		160.9		430.5	1441.8			
2012	30-Jan-12	16		89.2		433.1	1499.6			
2012	30-Jan-12	17		97.2		441.5	1530.5			
2012	30-Jan-12	18		109		457	1608			
2012	30-Jan-12	19		94.6		440.2	1830.5			
2012	30-Jan-12	20		147.7		435.9	1738.9			
2012	30-Jan-12	21		172.6		430.1	1602			
2012	30-Jan-12	22		207.2		428.5	1493.1			
2012	30-Jan-12	23		174.2		432.5	1343.5			
2012	31-Jan-12	0		153.7		430.5	1298.7			
2012	31-Jan-12	1		161.5		425.6	1300.9			
2012	31-Jan-12	2		165.5		440.8	1325.8			
2012	31-Jan-12	3		145.1		438.1	1329.4			
2012	31-Jan-12	4		157.4		440.2	1338.3			
2012	31-Jan-12	5		252.4		440.8	1498.3			
2012	31-Jan-12	6		322.9		561.8	1673.3			
2012	31-Jan-12	7		401		421.9	1794.5			
2012	31-Jan-12	8		282.2		430.5	1591.4			
2012	31-Jan-12	9		258.6		435.8	1554.6			
2012	31-Jan-12	10		211.4		436	1462.8			
2012	31-Jan-12	11		41.5		438.4	1410.4			
2012	31-Jan-12	12		49.4		440.5	1379.1			
2012	31-Jan-12	13		41.1		412.7	1341.4			
2012	31-Jan-12	14		32.7		423.3	1343.7			
2012	31-Jan-12	15		43.1		424.1	1343			
2012	31-Jan-12	16		33.2		428	1435.2			
2012	31-Jan-12	17		43.4		430.6	1531.8			
2012	31-Jan-12	18		152.5		432.4	1673.6			
2012	31-Jan-12	19		310.5		437.3	1673.2			
2012	31-Jan-12	20		201.5		428.2	1617.1			
2012	31-Jan-12	21		185.9		426.8	1487.6			
2012	31-Jan-12	22		224.7		428.1	1365			
2012	31-Jan-12	23		251.6		431.8	1376.4			
2012	1-Feb-12	0		186.5		430.1	1330			
2012	1-Feb-12	1		149.2		439	721.3			
2012	1-Feb-12	2		131.1		459.2	66.69			
2012	1-Feb-12	3		147.3		464.9				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	1-Feb-12	4		124.6		468.2				
2012	1-Feb-12	5		161.1		550.8				
2012	1-Feb-12	6		254.2		591.7				
2012	1-Feb-12	7		330.4		432.5				
2012	1-Feb-12	8		185.3		437.7				
2012	1-Feb-12	9		132.8		441.7				
2012	1-Feb-12	10		168.7		443.6				
2012	1-Feb-12	11		57		430.8				
2012	1-Feb-12	12		59		426.3				
2012	1-Feb-12	13		67.5		433.7				
2012	1-Feb-12	14		110.1		436.7				
2012	1-Feb-12	15		151.8		440.3				
2012	1-Feb-12	16		128		443.3				
2012	1-Feb-12	17		77.6		446.5				
2012	1-Feb-12	18		218.4		587.1				
2012	1-Feb-12	19		459.2		439.7				
2012	1-Feb-12	20		355.3		442.6				
2012	1-Feb-12	21		205.7		444.4				
2012	1-Feb-12	22		210.1		445.2				
2012	1-Feb-12	23		226.5		449.1				
2012	2-Feb-12	0		135.5		436.2				1.33
2012	2-Feb-12	1		95.5		443.4				4.2
2012	2-Feb-12	2		86.4		446.2				1.008
2012	2-Feb-12	3		105.5		445.9				
2012	2-Feb-12	4		82.7		447.4				1.65
2012	2-Feb-12	5		72.7		454.3				1.426
2012	2-Feb-12	6		182.8		904.5				
2012	2-Feb-12	7		428.2		1462.2				
2012	2-Feb-12	8		363.3		1432				
2012	2-Feb-12	9		274.2		652.3				
2012	2-Feb-12	10		256		406.5				
2012	2-Feb-12	11		129.8		402.9				
2012	2-Feb-12	12		110.5		417.8				
2012	2-Feb-12	13		105.8		414.7				
2012	2-Feb-12	14		207.2		418.3				
2012	2-Feb-12	15		313.7		418.2				
2012	2-Feb-12	16		260.1		416.8				
2012	2-Feb-12	17		305.1		418.2				
2012	2-Feb-12	18		754.9		414.6				
2012	2-Feb-12	19		1095.7		414.9				
2012	2-Feb-12	20		528.8		419.2				
2012	2-Feb-12	21		401.8		421.4				
2012	2-Feb-12	22		541.3		421.8				
2012	2-Feb-12	23		519.6		416.1				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	3-Feb-12	0		375.2		418.2				
2012	3-Feb-12	1		266.7		410.4				
2012	3-Feb-12	2		263.5		404.7				
2012	3-Feb-12	3		277.3		404.6				
2012	3-Feb-12	4		265.2		406.7				
2012	3-Feb-12	5		484.3		405.3				
2012	3-Feb-12	6		757.2		829.6				
2012	3-Feb-12	7		519.4		2059.1				
2012	3-Feb-12	8		625.6		1821.9				
2012	3-Feb-12	9		639.1		894.3				
2012	3-Feb-12	10		470		432.6				
2012	3-Feb-12	11		145.1		407.5				
2012	3-Feb-12	12		211.2		405.4				
2012	3-Feb-12	13		177.6		407.4				
2012	3-Feb-12	14		280.1		414.6				
2012	3-Feb-12	15		230.6		431.4				
2012	3-Feb-12	16		339.3		418.7				
2012	3-Feb-12	17		545.7		551.5				
2012	3-Feb-12	18		924.5		839.9				
2012	3-Feb-12	19		1017.3		432.5				
2012	3-Feb-12	20		896.7		444				
2012	3-Feb-12	21		224.3		450.2				
2012	3-Feb-12	22		104.3		453.7				
2012	3-Feb-12	23		80.7		456.1				
2012	4-Feb-12	0		64.9		456.4				
2012	4-Feb-12	1		59.1		457.4				
2012	4-Feb-12	2		48.5		460.2				
2012	4-Feb-12	3		38.7		452.9				
2012	4-Feb-12	4		43		447.2				
2012	4-Feb-12	5		101.2		440.9				
2012	4-Feb-12	6		136.4		441.4				
2012	4-Feb-12	7		152.7		435				
2012	4-Feb-12	8		167.9		448.9				
2012	4-Feb-12	9		277.5		440.9				
2012	4-Feb-12	10		457.3		428.7				
2012	4-Feb-12	11		421.7		437.6				
2012	4-Feb-12	12		231.1		432.8				
2012	4-Feb-12	13		358.3		437.2				
2012	4-Feb-12	14		653.7		439				
2012	4-Feb-12	15		725.7		442.8				
2012	4-Feb-12	16		749		443.3				
2012	4-Feb-12	17		372.4		446.8				
2012	4-Feb-12	18		549.7		449.6				
2012	4-Feb-12	19		520.9		453				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-Feb-12	20		200.1		452.1				
2012	4-Feb-12	21		142		454.1				
2012	4-Feb-12	22		516.2		454.9				
2012	4-Feb-12	23		396.4		455.9				
2012	5-Feb-12	0		249.7		454.4				
2012	5-Feb-12	1		196.5		456.1				
2012	5-Feb-12	2		215.3		463.6				
2012	5-Feb-12	3		153.3		441.9				
2012	5-Feb-12	4		140		446.9				
2012	5-Feb-12	5		141.2		450.3				
2012	5-Feb-12	6		127.5		450.9				
2012	5-Feb-12	7		127		572.8				
2012	5-Feb-12	8		199		1268.9				
2012	5-Feb-12	9		315.4		1263.1				
2012	5-Feb-12	10		410.5		1293.6				
2012	5-Feb-12	11		545.8		568.2				
2012	5-Feb-12	12		584.9		447.4				
2012	5-Feb-12	13		1090.5		440.7				
2012	5-Feb-12	14		805.7		444.5				
2012	5-Feb-12	15		248.2		446.8				
2012	5-Feb-12	16		198.7		444.8				
2012	5-Feb-12	17		220.8		448.1				
2012	5-Feb-12	18		489.4		484.6				
2012	5-Feb-12	19		288.2		445.4				
2012	5-Feb-12	20		275.7		449				
2012	5-Feb-12	21		256.8		451.6				
2012	5-Feb-12	22		322.2		450.4				
2012	5-Feb-12	23		311.7		519.7				
2012	6-Feb-12	0		492.2		577.7				
2012	6-Feb-12	1		583.2		829.1				
2012	6-Feb-12	2		913.3		997.6				
2012	6-Feb-12	3		1014.9		1436.4				
2012	6-Feb-12	4		988.9		1976.7				
2012	6-Feb-12	5		962.6		2068				
2012	6-Feb-12	6		1131.5		2022.9				
2012	6-Feb-12	7		1092.4		2039.2				
2012	6-Feb-12	8		1112.3		2039.7				
2012	6-Feb-12	9		827.5		1864.6				
2012	6-Feb-12	10		728.5		1739.2				
2012	6-Feb-12	11		457.8		1667.6				
2012	6-Feb-12	12		184.8		1177.5				
2012	6-Feb-12	13		146.7		500.7				
2012	6-Feb-12	14		257.4		430.8				
2012	6-Feb-12	15		297.4		436.1				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	6-Feb-12	16		199		443.6				
2012	6-Feb-12	17		184.4		496.1				
2012	6-Feb-12	18		386.6		813				
2012	6-Feb-12	19		467.6		939.2				
2012	6-Feb-12	20		498		782.8				
2012	6-Feb-12	21		385.5		470.3				
2012	6-Feb-12	22		457.1		447.4				
2012	6-Feb-12	23		569.4		463.8				
2012	7-Feb-12	0		594.4		466.2				
2012	7-Feb-12	1		727.1		455.4				
2012	7-Feb-12	2		986.8		619.9				
2012	7-Feb-12	3		1114.8		1278.7				
2012	7-Feb-12	4		1064		1988.5				
2012	7-Feb-12	5		1107.8		2080.7				
2012	7-Feb-12	6		1235.7		2064.7				
2012	7-Feb-12	7		1275.1		2063.1				
2012	7-Feb-12	8		1492.8		1894				
2012	7-Feb-12	9		1105		1390.4				
2012	7-Feb-12	10		1211.1		1303.9				
2012	7-Feb-12	11		515.1		649				
2012	7-Feb-12	12		268.1		463.6				
2012	7-Feb-12	13		300.6		485.7			0	5.3
2012	7-Feb-12	14		552.8		464.8	0		0	1.764
2012	7-Feb-12	15		417.5		465.1	1.6		0	9.36
2012	7-Feb-12	16		371.2		463.4	0		3.2	10
2012	7-Feb-12	17		371.4		472.5	63.4		23	15.5
2012	7-Feb-12	18		746.4		466	240.8		39.5	2.3
2012	7-Feb-12	19		1005.8		648.4	315.1		44.3	2.3
2012	7-Feb-12	20		1037.6		587.5	352.6		49	2.1
2012	7-Feb-12	21		986.9		468.5	440.9		54.3	2.2
2012	7-Feb-12	22		1066.9		479.7	882.4		56.5	1.7
2012	7-Feb-12	23		973.4		463	1230		59.8	6
2012	8-Feb-12	0		635.4		470.4	1285.6		59.7	17.4
2012	8-Feb-12	1		469.3		457.8	1317.2		71.3	31.9
2012	8-Feb-12	2		393		453.6	1339.1		82.5	50.1
2012	8-Feb-12	3		438.4		487.8	1403.6		77.8	80
2012	8-Feb-12	4		757.5		1526.3	1704.1		74.2	109.1
2012	8-Feb-12	5		1015.5		2102.9	1930.8		75.1	151.9
2012	8-Feb-12	6		1197.7		2018.9	1980.2		102.9	117.8
2012	8-Feb-12	7		1141.7		2034.8	1839.8		111.2	87.8
2012	8-Feb-12	8		1142.9		1992.1	1839.3		120.6	235.5
2012	8-Feb-12	9		1128		2018.6	2031.9		157.4	376.6
2012	8-Feb-12	10		1187.7		1898.3	1884.8		198.5	443.4
2012	8-Feb-12	11		802.6		1383.3	1660.4		258.4	417.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-Feb-12	12		665.8		1239.7	1602.1		332.5	454.7
2012	8-Feb-12	13		903.3		1324.7	1512.2		412.8	465.2
2012	8-Feb-12	14		1099.9		1360.9	1502.3		535.1	467
2012	8-Feb-12	15		1099.8		1547.7	1514.9		480	461.2
2012	8-Feb-12	16		925.7		1923.2	1584		477.4	473.3
2012	8-Feb-12	17		790.1		2043.1	1683.6		492.6	513.7
2012	8-Feb-12	18		844.3		2060.3	1974		541	594.3
2012	8-Feb-12	19		1051.7		2064.6	2250.8		467.3	537.4
2012	8-Feb-12	20		1073		2032.1	2265.6		486.8	552.4
2012	8-Feb-12	21		972.6		1730.8	1942.6		503.1	565.7
2012	8-Feb-12	22		704.1		955.8	1652.9		522.3	562
2012	8-Feb-12	23		560.5		514.1	1381.6		486.5	585.7
2012	9-Feb-12	0		425.3		439.3	1353.6		487.2	563.8
2012	9-Feb-12	1		315.7		420.3	1369.8		484.8	554.6
2012	9-Feb-12	2		314.6		420.7	1378.1		483.9	557.1
2012	9-Feb-12	3		343.4		426.2	1377.1		468.9	549
2012	9-Feb-12	4		525.1		819.2	1500		501.5	583.4
2012	9-Feb-12	5		792.2		1761.5	1774.4		609.1	704.4
2012	9-Feb-12	6		999.7		2040.3	2168.2		648.8	694.3
2012	9-Feb-12	7		1096.9		1944	2402.9		636.1	638.9
2012	9-Feb-12	8		1008.7		1926.7	2155.6		497.7	442.7
2012	9-Feb-12	9		833.1		1502.1	1791.6		447.3	408.3
2012	9-Feb-12	10		836.9		939.2	1422.8		440.1	414.5
2012	9-Feb-12	11		550.4		426.6	1359.1		438.1	411.2
2012	9-Feb-12	12		289		424.6	1347.5		446.1	423.2
2012	9-Feb-12	13		257		426.1	1348.4		441.5	442.4
2012	9-Feb-12	14		273.5		437.6	1352.4		417.8	508.8
2012	9-Feb-12	15		291		431.6	1354.7		414.5	502.5
2012	9-Feb-12	16		338.7		442.9	1366.9		413.5	505.8
2012	9-Feb-12	17		349.9		473.9	1383.3		482.7	503.5
2012	9-Feb-12	18		568.8		912.4	1496.9		355.2	368.6
2012	9-Feb-12	19		1049		798.9	1416.5		188.18	306.5
2012	9-Feb-12	20		1280		494.7	1415.5			230.7
2012	9-Feb-12	21		1118		458.5	1369.4			297.8
2012	9-Feb-12	22		886.1		459.7	1363.6			213.5
2012	9-Feb-12	23		655.2		457.7	1363.9			57.428
2012	10-Feb-12	0		508.2		465	1437.8			
2012	10-Feb-12	1		422.5		463.7	1456.3			
2012	10-Feb-12	2		466.7		463	1649.5			
2012	10-Feb-12	3		494.8		469.6	1662.7			
2012	10-Feb-12	4		657.4		1341.7	1925.2			
2012	10-Feb-12	5		873.3		2077.2	2312.6			
2012	10-Feb-12	6		1037.2		1978.4	2442.4			
2012	10-Feb-12	7		1375.3		1753.6	2367.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-Feb-12	8		811.4		1377.2	2225			
2012	10-Feb-12	9		656.7		511.8	2222.8			
2012	10-Feb-12	10		639.7		423.7	1992			
2012	10-Feb-12	11		382.2		428.4	1777.9			
2012	10-Feb-12	12		267		440.1	1778.9			
2012	10-Feb-12	13		209.1		443.8	1732			
2012	10-Feb-12	14		214.6		445.9	1799.7			
2012	10-Feb-12	15		164.3		446.7	1733			
2012	10-Feb-12	16		134.6		450.9	1791.7			1.674
2012	10-Feb-12	17		139.6		634.2	1824.8			4.8
2012	10-Feb-12	18		247.4		966.6	2097.2			1.6
2012	10-Feb-12	19		269.7		449.7	1966.6			1.9
2012	10-Feb-12	20		173.9		440.5	1862.8			1.9
2012	10-Feb-12	21		122.7		448.3	1756.3			1.9
2012	10-Feb-12	22		128.2		451.5	1631.5			1.9
2012	10-Feb-12	23		165.5		453.9	1569.4			1.888
2012	11-Feb-12	0		246.3		452.6	1375.3			
2012	11-Feb-12	1		225.2		449.5	1374.3			
2012	11-Feb-12	2		176.4		448.6	1367			
2012	11-Feb-12	3		171.4		452.6	1372			
2012	11-Feb-12	4		185.5		454.3	1367.8			
2012	11-Feb-12	5		185.3		455	1420.1			
2012	11-Feb-12	6		167.6		457.3	1475.6			
2012	11-Feb-12	7		184.1		452.3	1659.1			
2012	11-Feb-12	8		263.1		460.6	1800.8			
2012	11-Feb-12	9		406.6		611.2	2092.7			
2012	11-Feb-12	10		630.1		435.8	2094.3			
2012	11-Feb-12	11		698.3		443.8	2002.8			
2012	11-Feb-12	12		538.9		452.2	1903.5			
2012	11-Feb-12	13		366.2		452.5	1776.7			0.777
2012	11-Feb-12	14		394.6		455.4	1761.1			8.5
2012	11-Feb-12	15		475.9		455.1	1808.9			15.8
2012	11-Feb-12	16		390.2		453.4	1831.9			3.9
2012	11-Feb-12	17		406.2		541.4	2014.7			1.5
2012	11-Feb-12	18		733.9		970.2	2230.5			1.5
2012	11-Feb-12	19		825.6		1125.7	2374.3			0.78
2012	11-Feb-12	20		722.3		1622.1	2463			
2012	11-Feb-12	21		719.5		2074.8	2511.6			0.851
2012	11-Feb-12	22		778.5		2009.6	2489.9			1.6
2012	11-Feb-12	23		780.7		2054.2	2512.1			14.3
2012	12-Feb-12	0		900.6		2020.8	2523.1			1.804
2012	12-Feb-12	1		1040.1		2083.5	2520.5			
2012	12-Feb-12	2		1193		2080.1	2528.7			0.85
2012	12-Feb-12	3		1251.6		2057.1	2520.3			1.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	12-Feb-12	4		1197.1		2066.9	2513			5.1
2012	12-Feb-12	5		1273.5		2023.8	2495			1.8
2012	12-Feb-12	6		775.9		2033.3	2477.3			1.3
2012	12-Feb-12	7		702.2		2031.8	2469.1			4.3
2012	12-Feb-12	8		671.5		2026.4	2472.1			33.7
2012	12-Feb-12	9		573.5		2027.9	2474			156.6
2012	12-Feb-12	10		477.6		2026.1	2473			214.3
2012	12-Feb-12	11		312.2		2023.5	2461.7			411.4
2012	12-Feb-12	12		284.9		2028.9	2461.9			400.8
2012	12-Feb-12	13		530.3		1975	2469.2			414.2
2012	12-Feb-12	14		497.2		2018	2464.4			414.9
2012	12-Feb-12	15		328.2		2026.2	2470.1			416.7
2012	12-Feb-12	16		262		2023.1	2474.5			416.7
2012	12-Feb-12	17		835.7		2010.1	2463.9			411
2012	12-Feb-12	18		513.8		2016.3	2445			482.7
2012	12-Feb-12	19		532		2020.8	2452.8			406.9
2012	12-Feb-12	20		781		2014.3	2453.5			431
2012	12-Feb-12	21		1157.1		1949	2416.8			407.8
2012	12-Feb-12	22		1080		1515.8	2232.2			405.2
2012	12-Feb-12	23		672.9		991.9	1942.6			404.5
2012	13-Feb-12	0		508.2		454.6	1696.7			500.5
2012	13-Feb-12	1		469.4		503.4	1724.5			458.5
2012	13-Feb-12	2		388.8		468.8	1686.2			421
2012	13-Feb-12	3		432.7		444.2	1762.4			423.3
2012	13-Feb-12	4		479		576.4	1763.7			468.5
2012	13-Feb-12	5		796.4		1406.8	2031.3			642.4
2012	13-Feb-12	6		1007.5		2034.6	2374.7			724.4
2012	13-Feb-12	7		1172.5		1985.3	2444.8			767.9
2012	13-Feb-12	8		1192.7		1670.5	2284.6			608.4
2012	13-Feb-12	9		1126.2		1152.2	2292.9			432.8
2012	13-Feb-12	10		1136.1		1061.1	2326.8			414
2012	13-Feb-12	11		868.4		438.9	2062.5			406.3
2012	13-Feb-12	12		557.1		424	1861.3			405.4
2012	13-Feb-12	13		303.3		428.7	1787.9			399.5
2012	13-Feb-12	14		712.8		433.7	1758.4			397.5
2012	13-Feb-12	15		655		452	1704.7			397.2
2012	13-Feb-12	16		930.5		418.3	1682.2			394.2
2012	13-Feb-12	17		1255.3		435.1	1728.8			394.2
2012	13-Feb-12	18		617.3		700.8	2043.8			390.9
2012	13-Feb-12	19		897.1		434	2062.8			389.6
2012	13-Feb-12	20		868.4		450.5	1966.9			525.6
2012	13-Feb-12	21		728.7		450.6	1834.3			743.9
2012	13-Feb-12	22		435.3		434.9	1667.2			721.5
2012	13-Feb-12	23		321.7		445.3	1518.4			700

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	14-Feb-12	0		502.1		447.3	1445.5			555.5
2012	14-Feb-12	1		710.3		449.1	1353.3			344.4
2012	14-Feb-12	2		705.6		451.6	1345.4			240.8
2012	14-Feb-12	3		1417.1		454.3	1340.3			154.632
2012	14-Feb-12	4		1962.5		453.3	1317.4			
2012	14-Feb-12	5		927.7		453.1	1387.5			
2012	14-Feb-12	6		939.2		1320.8	1711.7			
2012	14-Feb-12	7		680.4		2048.6	2084.7			
2012	14-Feb-12	8		669.5		1968.2	2283.5			
2012	14-Feb-12	9		585.9		1365.5	2064.2			
2012	14-Feb-12	10		587		1166.9	1895.1			
2012	14-Feb-12	11		494.6		443.6	1708.2			
2012	14-Feb-12	12		1010.2		449.5	1517			
2012	14-Feb-12	13		924.1		465.8	1582.3			
2012	14-Feb-12	14		1207.7		436.5	1528.8			
2012	14-Feb-12	15		1487.4		434.3	1523.6			
2012	14-Feb-12	16		1567.5		435.2	1640.8			
2012	14-Feb-12	17		802		601.7	1686.6			
2012	14-Feb-12	18		432.8		448.7	1675.1			
2012	14-Feb-12	19		310.8		457.9	1852.9			
2012	14-Feb-12	20		250.2		432.1	1920			
2012	14-Feb-12	21		145.4		434.5	1650.5			
2012	14-Feb-12	22		119.9		440	1475.9			
2012	14-Feb-12	23		89.6		432.4	1306.7			
2012	15-Feb-12	0		78.3		444.6	1169.9			
2012	15-Feb-12	1		71.8		462.8	176.055			
2012	15-Feb-12	2		84		459.9				
2012	15-Feb-12	3		82.8		456.3				
2012	15-Feb-12	4		169.3		452.3				
2012	15-Feb-12	5		327.6		441.7				
2012	15-Feb-12	6		313.9		934.7				
2012	15-Feb-12	7		317.8		1803.4				
2012	15-Feb-12	8		454.2		1958.2				
2012	15-Feb-12	9		270.9		1442.7				
2012	15-Feb-12	10		233.1		734.5				
2012	15-Feb-12	11		232.8		477				
2012	15-Feb-12	12		246.7		431.1				
2012	15-Feb-12	13		238.9		427.8				
2012	15-Feb-12	14		286		409.5				
2012	15-Feb-12	15		322.2		416.6				
2012	15-Feb-12	16		424.6		418.8				
2012	15-Feb-12	17		370.7		410.6				
2012	15-Feb-12	18		587.7		811.8				
2012	15-Feb-12	19		970.7		431.7				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-Feb-12	20		889.4		394.7				
2012	15-Feb-12	21		609.9		394.3				
2012	15-Feb-12	22		526.7		403.5				
2012	15-Feb-12	23		399.3		392.8				
2012	16-Feb-12	0		315.1		400.7				
2012	16-Feb-12	1		220.4		394.1				
2012	16-Feb-12	2		154.6		394.5				
2012	16-Feb-12	3		136.1		395.3				
2012	16-Feb-12	4		124.9		403.1				
2012	16-Feb-12	5		125		387.9				
2012	16-Feb-12	6		139.9		408.4				
2012	16-Feb-12	7		245.3		442.1				
2012	16-Feb-12	8		334.4		410.5				
2012	16-Feb-12	9		412.5		428.3				
2012	16-Feb-12	10		602.1		401.3				
2012	16-Feb-12	11		558.8		407.3				
2012	16-Feb-12	12		437.7		406.3				
2012	16-Feb-12	13		32.2		407.9				
2012	16-Feb-12	14		173.8		409.3				
2012	16-Feb-12	15		201.5		407.1				
2012	16-Feb-12	16		314.2		410				
2012	16-Feb-12	17		408.6		483.7				
2012	16-Feb-12	18		768.6		500.2				
2012	16-Feb-12	19		1151.7		406.1				
2012	16-Feb-12	20		846.6		400.9				
2012	16-Feb-12	21		485.6		410.8				
2012	16-Feb-12	22		251		396.7				
2012	16-Feb-12	23		140.3		397.6				
2012	17-Feb-12	0		86.4		402				
2012	17-Feb-12	1		45.2		399				
2012	17-Feb-12	2		29.7		404.9				
2012	17-Feb-12	3		23.1		401.9				
2012	17-Feb-12	4		19.8		404.9				
2012	17-Feb-12	5		17.5		404.1				
2012	17-Feb-12	6		19.6		429.1				
2012	17-Feb-12	7		48.6		1129.3				
2012	17-Feb-12	8		108.7		601.5				
2012	17-Feb-12	9		161.9		399.4				
2012	17-Feb-12	10		111.4		402.9				
2012	17-Feb-12	11		93.1		413.2				
2012	17-Feb-12	12		63.9		416.3				
2012	17-Feb-12	13		51.1		418				
2012	17-Feb-12	14		46.4		422.6				
2012	17-Feb-12	15		43.2		423.2				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	17-Feb-12	16		42.2		425.1				
2012	17-Feb-12	17		43.4		428.7				
2012	17-Feb-12	18		62		426.3				
2012	17-Feb-12	19		112.4		426.3				
2012	17-Feb-12	20		182.4		434.7				
2012	17-Feb-12	21		207.2		431.3				
2012	17-Feb-12	22		224.2		407.1				
2012	17-Feb-12	23		223.6		405.5				
2012	18-Feb-12	0		218.2		406.7				
2012	18-Feb-12	1		143.8		411.9				
2012	18-Feb-12	2		81.4		411.9				
2012	18-Feb-12	3		76.4		418.4				
2012	18-Feb-12	4		76.9		417.6				
2012	18-Feb-12	5		76.6		422.9				
2012	18-Feb-12	6		73.1		425.7				
2012	18-Feb-12	7		127.8		685.9				
2012	18-Feb-12	8		245		1188.3				
2012	18-Feb-12	9		227.8		1136.3				
2012	18-Feb-12	10		199.6		511.1				
2012	18-Feb-12	11		106.8		408.3				
2012	18-Feb-12	12		101.8		415.6				
2012	18-Feb-12	13		86.6		425.7				
2012	18-Feb-12	14		81.7		430				
2012	18-Feb-12	15		82.4		432.6				
2012	18-Feb-12	16		81.9		444.9				
2012	18-Feb-12	17		83.5		448.1				
2012	18-Feb-12	18		134.3		451.1				
2012	18-Feb-12	19		227.5		451.5				
2012	18-Feb-12	20		223.3		452.7				
2012	18-Feb-12	21		219.4		452				
2012	18-Feb-12	22		218.8		444.4				
2012	18-Feb-12	23		165.9		442.3				
2012	19-Feb-12	0		90.1		443.4				
2012	19-Feb-12	1		204.9		441.8				
2012	19-Feb-12	2		217		442.6				
2012	19-Feb-12	3		227.3		442.5				
2012	19-Feb-12	4		223.4		447				
2012	19-Feb-12	5		222.7		447.2				
2012	19-Feb-12	6		211.2		484.4				
2012	19-Feb-12	7		254		1248				
2012	19-Feb-12	8		366		1198				
2012	19-Feb-12	9		634.5		1542.1				
2012	19-Feb-12	10		841.3		1336.5				
2012	19-Feb-12	11		630.5		919.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-Feb-12	12		533.3		448.8				
2012	19-Feb-12	13		519.4		447.9				
2012	19-Feb-12	14		548.1		459.3				
2012	19-Feb-12	15		790.8		1090.9				
2012	19-Feb-12	16		820.7		817.7				
2012	19-Feb-12	17		1033.6		433.9				
2012	19-Feb-12	18		972		398				
2012	19-Feb-12	19		1290.6		419.8				
2012	19-Feb-12	20		1342.9		660				
2012	19-Feb-12	21		1333.3		395.1				
2012	19-Feb-12	22		1085.3		399				
2012	19-Feb-12	23		891.1		404.7				
2012	20-Feb-12	0		617.8		409.8				
2012	20-Feb-12	1		493.1		412				
2012	20-Feb-12	2		457.4		411.4				
2012	20-Feb-12	3		402.2		424.3				
2012	20-Feb-12	4		501.5		593.2				
2012	20-Feb-12	5		406.9		393.8				
2012	20-Feb-12	6		470.7		453.8				
2012	20-Feb-12	7		624.1		1111.8				
2012	20-Feb-12	8		965.3		1388.6				
2012	20-Feb-12	9		921.3		1743				
2012	20-Feb-12	10		396.2		1893.5				
2012	20-Feb-12	11		358.9		1783.1				
2012	20-Feb-12	12		432.7		1244.6				
2012	20-Feb-12	13		502.4		594.2				
2012	20-Feb-12	14		359.7		421				
2012	20-Feb-12	15		162.6		435.9				
2012	20-Feb-12	16		28.9		407.4				
2012	20-Feb-12	17		109		392.3				
2012	20-Feb-12	18		49.2		683.9				
2012	20-Feb-12	19		43.8		1288.7				
2012	20-Feb-12	20		54.9		1880.3				
2012	20-Feb-12	21		255.1		1899.7				
2012	20-Feb-12	22		91.9		1355.7				
2012	20-Feb-12	23		52.2		690.2				
2012	21-Feb-12	0		51.7		423.8				
2012	21-Feb-12	1		181.4		398.2				
2012	21-Feb-12	2		54.3		390.4				
2012	21-Feb-12	3		49.7		621.5				
2012	21-Feb-12	4		74.1		1154.7				
2012	21-Feb-12	5		315.5		1481.2				
2012	21-Feb-12	6		103.7		1944.2				
2012	21-Feb-12	7		248.3		1922.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-Feb-12	8		401		1957.6				
2012	21-Feb-12	9		1195.3		1905.6				
2012	21-Feb-12	10		871.3		1827.9				
2012	21-Feb-12	11		1564.9		1541.4				
2012	21-Feb-12	12		882		990.7				
2012	21-Feb-12	13		635.9		416.8				
2012	21-Feb-12	14		603.7		409				
2012	21-Feb-12	15		503		396.5				
2012	21-Feb-12	16		468.7		402.1				
2012	21-Feb-12	17		495.1		522.4				
2012	21-Feb-12	18		476.5		863.4				
2012	21-Feb-12	19		546.2		1237.2				
2012	21-Feb-12	20		528.9		1836.8				
2012	21-Feb-12	21		472.2		1787.5				
2012	21-Feb-12	22		150.2		1216.4				
2012	21-Feb-12	23		27.6		701.7				
2012	22-Feb-12	0		25.8		413.5				
2012	22-Feb-12	1		83.8		398.9				
2012	22-Feb-12	2		36.8		407.4				
2012	22-Feb-12	3		33.1		412.4				
2012	22-Feb-12	4		61.7		411.6				
2012	22-Feb-12	5		92.6		415.6				
2012	22-Feb-12	6		111.2		512.2				
2012	22-Feb-12	7		396.3		1245.1				
2012	22-Feb-12	8		526.8		1225.3				
2012	22-Feb-12	9		619.9		774.8				
2012	22-Feb-12	10		569.2		382.8				
2012	22-Feb-12	11		358.1		385.2				
2012	22-Feb-12	12		119.9		391.9				
2012	22-Feb-12	13		375.9		405.6				
2012	22-Feb-12	14		241.8		413.3				
2012	22-Feb-12	15		114.1		418.7				
2012	22-Feb-12	16		113.2		419.8				
2012	22-Feb-12	17		142.9		430.4				
2012	22-Feb-12	18		191		551				
2012	22-Feb-12	19		708.9		526.4				
2012	22-Feb-12	20		407		448.7				
2012	22-Feb-12	21		182.4		410.9				
2012	22-Feb-12	22		129.8		415.6				
2012	22-Feb-12	23		124.4		419.6				
2012	23-Feb-12	0		112.4		420.9				
2012	23-Feb-12	1		244.4		422.8				
2012	23-Feb-12	2		216.5		422.3				
2012	23-Feb-12	3		159.2		424.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	23-Feb-12	4		171.5		429.1				
2012	23-Feb-12	5		265.8		416.8				
2012	23-Feb-12	6		403.9		416.7				
2012	23-Feb-12	7		852		406.3				
2012	23-Feb-12	8		409.8		415.4				
2012	23-Feb-12	9		219.4		417.6				
2012	23-Feb-12	10		234.5		501.2				
2012	23-Feb-12	11		582.2		412				
2012	23-Feb-12	12		337		414.8				
2012	23-Feb-12	13		410.7		419.9				
2012	23-Feb-12	14		539.2		420.8				
2012	23-Feb-12	15		348		429				
2012	23-Feb-12	16		297.8		407.1				
2012	23-Feb-12	17		238		406.7				
2012	23-Feb-12	18		333.3		671.3				
2012	23-Feb-12	19		922.5		1206.9				
2012	23-Feb-12	20		895.2		740.2				
2012	23-Feb-12	21		480		551.9				
2012	23-Feb-12	22		255.5		478.3				
2012	23-Feb-12	23		195.8		420.5				
2012	24-Feb-12	0		181.9		425.6				
2012	24-Feb-12	1		255.2		422.4				
2012	24-Feb-12	2		234.3		411.7				
2012	24-Feb-12	3		209.4		420				
2012	24-Feb-12	4		191.1		418.9				
2012	24-Feb-12	5		216.7		425.2				
2012	24-Feb-12	6		234.5		731.6				
2012	24-Feb-12	7		358.1		1010				
2012	24-Feb-12	8		360.8		488.4				
2012	24-Feb-12	9		221		467.4				
2012	24-Feb-12	10		220.4		1087.5				
2012	24-Feb-12	11		624.3		550.2				
2012	24-Feb-12	12		325.2		659.9				
2012	24-Feb-12	13		504.1		1126.3				
2012	24-Feb-12	14		510.7		548.1				
2012	24-Feb-12	15		361.7		392.9				
2012	24-Feb-12	16		444.8		430.3				
2012	24-Feb-12	17		663.9		783.9				
2012	24-Feb-12	18		936.7		1412.3				
2012	24-Feb-12	19		1523.1		1919.5				
2012	24-Feb-12	20		773.1		1976				
2012	24-Feb-12	21		551.5		1973.2				
2012	24-Feb-12	22		500.1		1962.5				
2012	24-Feb-12	23		252.9		1555.3				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	25-Feb-12	0		150		883.8				
2012	25-Feb-12	1		147.2		427.4				
2012	25-Feb-12	2		161		406.5				
2012	25-Feb-12	3		146.5		414				
2012	25-Feb-12	4		146.1		406.2				
2012	25-Feb-12	5		181		400.5				
2012	25-Feb-12	6		206.2		394.1				
2012	25-Feb-12	7		287.6		382				
2012	25-Feb-12	8		309.2		399.2				
2012	25-Feb-12	9		274.9		393.4				
2012	25-Feb-12	10		313.8		536				
2012	25-Feb-12	11		655.1		402.4				
2012	25-Feb-12	12		243.9		402.8				
2012	25-Feb-12	13		344.7		407				
2012	25-Feb-12	14		320.6		409.6				
2012	25-Feb-12	15		230.9		409.3				
2012	25-Feb-12	16		242		410.4				
2012	25-Feb-12	17		283.3		408.9				
2012	25-Feb-12	18		406.7		839.2				
2012	25-Feb-12	19		684.5		1258.2				
2012	25-Feb-12	20		1234.7		1445				
2012	25-Feb-12	21		1449.7		1349				
2012	25-Feb-12	22		1166.4		1150.4				
2012	25-Feb-12	23		593.7		549.3				
2012	26-Feb-12	0		394.6		404				
2012	26-Feb-12	1		336.6		419.8				
2012	26-Feb-12	2		263.7		436.2				
2012	26-Feb-12	3		290.9		1152				
2012	26-Feb-12	4		213.3		532.6				
2012	26-Feb-12	5		154.3		422.3				
2012	26-Feb-12	6		137.1		467.3				
2012	26-Feb-12	7		205.5		921				
2012	26-Feb-12	8		208.1		986.4				
2012	26-Feb-12	9		153.2		434.2				
2012	26-Feb-12	10		141.7		432				
2012	26-Feb-12	11		230.1		436.9				
2012	26-Feb-12	12		118.5		443.8				
2012	26-Feb-12	13		271.5		452				
2012	26-Feb-12	14		209.2		449.4				
2012	26-Feb-12	15		94.2		454.1				
2012	26-Feb-12	16		158.2		885.6				
2012	26-Feb-12	17		371.2		1644.2				
2012	26-Feb-12	18		792.8		2011.3				
2012	26-Feb-12	19		1136.8		1882.2				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-Feb-12	20		765.8		1407.3				
2012	26-Feb-12	21		234.5		782.9				
2012	26-Feb-12	22		191.4		452.4				
2012	26-Feb-12	23		143.3		440.3				
2012	27-Feb-12	0		136		435.3				
2012	27-Feb-12	1		128.1		432.3				
2012	27-Feb-12	2		101.6		431.5				
2012	27-Feb-12	3		107.4		432.8				
2012	27-Feb-12	4		151.8		437.7				
2012	27-Feb-12	5		199.6		1009.9				
2012	27-Feb-12	6		347.3		1991.4				
2012	27-Feb-12	7		589.2		1997.3				
2012	27-Feb-12	8		877.1		1738.7				
2012	27-Feb-12	9		302		1433.4				
2012	27-Feb-12	10		348		1038.2				
2012	27-Feb-12	11		893.6		527.3				
2012	27-Feb-12	12		373		426.8				
2012	27-Feb-12	13		470.1		436				
2012	27-Feb-12	14		474.1		441.9				
2012	27-Feb-12	15		330.8		447.1				
2012	27-Feb-12	16		298		450.3				
2012	27-Feb-12	17		303.3		451.6				
2012	27-Feb-12	18		361.1		742				
2012	27-Feb-12	19		558.6		634.5				
2012	27-Feb-12	20		504.3		563.3				
2012	27-Feb-12	21		307.7		448.1				
2012	27-Feb-12	22		281.8		442.1				
2012	27-Feb-12	23		223.6		438.6				
2012	28-Feb-12	0		174.4		425.4				
2012	28-Feb-12	1		193.6		433.3				
2012	28-Feb-12	2		209.1		418.8				
2012	28-Feb-12	3		198.9		418.4				
2012	28-Feb-12	4		422.6		1037.2				
2012	28-Feb-12	5		971		1912.2				
2012	28-Feb-12	6		1378		2040.6				
2012	28-Feb-12	7		939.9		1963.2				
2012	28-Feb-12	8		456.4		1814.4				
2012	28-Feb-12	9		248.1		1356.1				
2012	28-Feb-12	10		59.5		810				
2012	28-Feb-12	11		124.4		484.3				
2012	28-Feb-12	12		120.5		428.8				
2012	28-Feb-12	13		101.4		446.2				
2012	28-Feb-12	14		113.5		447.3				
2012	28-Feb-12	15		102		434.7				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	28-Feb-12	16		79.1		439				
2012	28-Feb-12	17		140.2		441.6				
2012	28-Feb-12	18		161.4		502.6				
2012	28-Feb-12	19		277.5		439.6				
2012	28-Feb-12	20		307.4		437.1				
2012	28-Feb-12	21		221.7		435.5				
2012	28-Feb-12	22		179.5		434.3				
2012	28-Feb-12	23		163		437.5				
2012	29-Feb-12	0		164.9		443.2				
2012	29-Feb-12	1		183.8		443.6				
2012	29-Feb-12	2		220.6		448.3				
2012	29-Feb-12	3		211.1		448.7				
2012	29-Feb-12	4		296		1476.9				
2012	29-Feb-12	5		480.5		2083.7				
2012	29-Feb-12	6		828.7		2092.2				
2012	29-Feb-12	7		584.2		2018				
2012	29-Feb-12	8		464.9		1749.8				
2012	29-Feb-12	9		452.4		1361.2				
2012	29-Feb-12	10		465.5		1120.9				
2012	29-Feb-12	11		367.4		982.6				
2012	29-Feb-12	12		300.4		523.5				
2012	29-Feb-12	13		255		412.4				
2012	29-Feb-12	14		200.8		424.4				
2012	29-Feb-12	15		182.1		429.5				
2012	29-Feb-12	16		160.6		430				
2012	29-Feb-12	17		168.1		453.5				
2012	29-Feb-12	18		157.7		729.1				
2012	29-Feb-12	19		193.3		604.3				
2012	29-Feb-12	20		186.5		684.9				
2012	29-Feb-12	21		154		417				
2012	29-Feb-12	22		218.8		429.9				
2012	29-Feb-12	23		284.1		432.6				
2012	1-Mar-12	0		253.2		436.6				
2012	1-Mar-12	1		239.6		444.5				
2012	1-Mar-12	2		232.9		443.4				
2012	1-Mar-12	3		238.8		440.1				
2012	1-Mar-12	4		285.8		867				
2012	1-Mar-12	5		614.8		2080.8				
2012	1-Mar-12	6		1198.4		2089.5				
2012	1-Mar-12	7		436.6		1589.8				
2012	1-Mar-12	8		228.7		918.2				
2012	1-Mar-12	9		209.4		665				
2012	1-Mar-12	10		143.7		559.4				
2012	1-Mar-12	11		105.5		656.3				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	1-Mar-12	12		86.5		503.9				
2012	1-Mar-12	13		84.2		509.1				
2012	1-Mar-12	14		75.2		463.4				
2012	1-Mar-12	15		75.3		436.6				
2012	1-Mar-12	16		65.4		442.5				
2012	1-Mar-12	17		63.8		441.1				
2012	1-Mar-12	18		73.2		792.7				
2012	1-Mar-12	19		118.6		1407.7				
2012	1-Mar-12	20		197.9		928.5				
2012	1-Mar-12	21		208.8		410.7				
2012	1-Mar-12	22		178.7		404.3				
2012	1-Mar-12	23		124.9		415.4				
2012	2-Mar-12	0		313.4		419.2				
2012	2-Mar-12	1		272.3		422.6				
2012	2-Mar-12	2		253.2		423.8				
2012	2-Mar-12	3		244.4		420.3				
2012	2-Mar-12	4		242.7		419.3				
2012	2-Mar-12	5		247.1		422.7				
2012	2-Mar-12	6		282.4		808				
2012	2-Mar-12	7		381.5		1387				
2012	2-Mar-12	8		471.1		1293.8				
2012	2-Mar-12	9		632.5		738.3				
2012	2-Mar-12	10		863.5		1001.2				
2012	2-Mar-12	11		697.4		414.3				
2012	2-Mar-12	12		594.6		422.7				
2012	2-Mar-12	13		606.4		433.5				
2012	2-Mar-12	14		607.9		435.6				
2012	2-Mar-12	15		551.8		491.6				
2012	2-Mar-12	16		614.3		685.5				
2012	2-Mar-12	17		796.3		838.2				
2012	2-Mar-12	18		736.1		1692.6				
2012	2-Mar-12	19		1238.5		1838.3				
2012	2-Mar-12	20		518.1		1578.7				
2012	2-Mar-12	21		468.3		1438.6				
2012	2-Mar-12	22		510		620				
2012	2-Mar-12	23		647.4		467.2				
2012	3-Mar-12	0		420.8		474.6				
2012	3-Mar-12	1		224.1		449				
2012	3-Mar-12	2		267.3		445.4				
2012	3-Mar-12	3		235.6		437.9				
2012	3-Mar-12	4		233.4		440.1				
2012	3-Mar-12	5		232		445.6				
2012	3-Mar-12	6		232.5		447.2				
2012	3-Mar-12	7		240.2		432.5				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	3-Mar-12	8		275.3		456.5				
2012	3-Mar-12	9		431		996				
2012	3-Mar-12	10		566.2		517				
2012	3-Mar-12	11		694.5		621.3				
2012	3-Mar-12	12		586		446.3				
2012	3-Mar-12	13		459.5		436.1				
2012	3-Mar-12	14		419.5		438.2				
2012	3-Mar-12	15		409.7		437.5				
2012	3-Mar-12	16		387		437.6				
2012	3-Mar-12	17		331.1		435.9				
2012	3-Mar-12	18		350.1		795.7				
2012	3-Mar-12	19		523.3		830.9				
2012	3-Mar-12	20		643.9		451.5				
2012	3-Mar-12	21		581.7		417				
2012	3-Mar-12	22		417.3		420.3				
2012	3-Mar-12	23		318.9		427.1				
2012	4-Mar-12	0		237.9		431.8				
2012	4-Mar-12	1		237.6		431.7				
2012	4-Mar-12	2		230.3		430.4				
2012	4-Mar-12	3		234.4		424.1				
2012	4-Mar-12	4		231.4		424				
2012	4-Mar-12	5		229.6		429.1				
2012	4-Mar-12	6		230.4		429.9				
2012	4-Mar-12	7		227.1		427.5				
2012	4-Mar-12	8		240		439.5				
2012	4-Mar-12	9		298.1		589.3				
2012	4-Mar-12	10		303.7		422.5				
2012	4-Mar-12	11		205.5		431.7				
2012	4-Mar-12	12		268.9		435.1				
2012	4-Mar-12	13		232.5		452.2				
2012	4-Mar-12	14		168.6		451.1	0			
2012	4-Mar-12	15		188.9		449.4	0.3			
2012	4-Mar-12	16		192.4		455.1	0.3			
2012	4-Mar-12	17		221.4		480.4	134.8			
2012	4-Mar-12	18		286		1335.3	250.6			
2012	4-Mar-12	19		443.5		2102.7	288.2			
2012	4-Mar-12	20		688		2111.6	270.9			
2012	4-Mar-12	21		856.2		2110.7	208.9			
2012	4-Mar-12	22		342.6		1806.3	216.1			
2012	4-Mar-12	23		240.9		1117.2	229.2	0.049		
2012	5-Mar-12	0		122.3		567.5	320.3	0.085		
2012	5-Mar-12	1		79.6		535.7	688	0.124		
2012	5-Mar-12	2		252		547.4	1158.6	0.125		
2012	5-Mar-12	3		285.9		550.3	1257.5	0.083		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	5-Mar-12	4		424.9		901.2	1452.5	0.047		
2012	5-Mar-12	5		811		1771.7	1725	0.047		
2012	5-Mar-12	6		923.2		2104.1	2021.5	0.047		
2012	5-Mar-12	7		551.2		2102.7	2281.9	61.419		
2012	5-Mar-12	8		493.3		2101.7	2371.6	143.147		
2012	5-Mar-12	9		373.1		2105.5	2473.1	161.341		
2012	5-Mar-12	10		400		2091.4	2557.2	232.1		
2012	5-Mar-12	11		327.2		2097.2	2501.6	444.3		
2012	5-Mar-12	12		441.6		2063.2	2489.6	571.2		
2012	5-Mar-12	13		547.4		1609.1	2311.4	558.8		
2012	5-Mar-12	14		437.5		1246.2	2084.6	562.7		
2012	5-Mar-12	15		345.9		685.9	1882.5	567.1		
2012	5-Mar-12	16		356.2		632.7	1843.6	568.9		
2012	5-Mar-12	17		382.6		488.6	1749.3	570.2		
2012	5-Mar-12	18		372.9		747.7	1815.3	566.7		
2012	5-Mar-12	19		550.7		1606	2199.6	568.1		
2012	5-Mar-12	20		733.8		2113.6	2492.6	570.3		
2012	5-Mar-12	21		860.2		2068.1	2501.4	572.1		
2012	5-Mar-12	22		883.2		1986.5	2437.6	571.3		
2012	5-Mar-12	23		877		1963.3	2290.8	575.1		
2012	6-Mar-12	0		705.4		1822.2	2255.6	572		
2012	6-Mar-12	1		690.5		1745.4	2134.7	561.8		
2012	6-Mar-12	2		824.1		1913.1	2108.9	561.9		
2012	6-Mar-12	3		936.1		1762	2095.7	560.4		
2012	6-Mar-12	4		1072.4		1999.6	2286.9	558.9		
2012	6-Mar-12	5		1049.6		2073.4	2477.8	788.1		
2012	6-Mar-12	6		1093.6		2076.9	2491	1136.8		
2012	6-Mar-12	7		947.2		1981	2469	1162.7		
2012	6-Mar-12	8		550.4		2000.6	2282.3	526.2		
2012	6-Mar-12	9		559.6		1922.7	2320.8	502.3		
2012	6-Mar-12	10		637.6		1966.9	2430.8	505.5		
2012	6-Mar-12	11		289.4		1376.6	2133.8	518		
2012	6-Mar-12	12		192.7		799	1853	523.4		
2012	6-Mar-12	13		138.1		445.2	1485.5	532.4		
2012	6-Mar-12	14		111.1		430.6	1330.7	511.8		
2012	6-Mar-12	15		100.7		424.8	1373.1	499.9		
2012	6-Mar-12	16		72.5		422.5	1374.6	509.3	0	
2012	6-Mar-12	17		74.2		415.5	1364.2	519.1	0	
2012	6-Mar-12	18		253.3		503.1	1463.2	527.7	0	
2012	6-Mar-12	19		549.9		543.3	1702.4	528.5	0	
2012	6-Mar-12	20		687.1		473.1	1721.2	518.2	0	
2012	6-Mar-12	21		471.6		414.4	1484	523.3	4.4	
2012	6-Mar-12	22		413.3		405.6	1370.9	517.8	15.3	
2012	6-Mar-12	23		312.3		404.9	1361.3	510.7	20.9	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	7-Mar-12	0		323.9		406.3	1366.8	492.3	25.4	
2012	7-Mar-12	1		282.6		408.9	1375.9	326.9	37.9	
2012	7-Mar-12	2		282.2		408.6	1379.5	286.3	37.8	
2012	7-Mar-12	3		278.7		413.9	1373.1	147.843	37.8	
2012	7-Mar-12	4		477.2		1121.3	1657.1	0.031	40.8	
2012	7-Mar-12	5		925.5		1886	2010.9	0.035	56.5	
2012	7-Mar-12	6		1453.1		2050.6	2269.6	0.047	86	
2012	7-Mar-12	7		573.2		1634.2	2204.8	0.01	119.2	
2012	7-Mar-12	8		275.3		1021.7	1850.8		200.5	
2012	7-Mar-12	9		205		473.9	1532.5		268.7	
2012	7-Mar-12	10		149		465.7	1384.3		367	
2012	7-Mar-12	11		162.7		419.1	1399.8		375.3	
2012	7-Mar-12	12		191.3		444.5	1323.2		406.1	
2012	7-Mar-12	13		190.9		446.4	1264.7		463.8	
2012	7-Mar-12	14		198		440.7	1321.4		524	
2012	7-Mar-12	15		216.2		426	1406.7		519.8	
2012	7-Mar-12	16		242		433.3	1391.6		496.5	
2012	7-Mar-12	17		256.7		433.6	1400.7		412.8	
2012	7-Mar-12	18		289.7		565.1	1479.3		370.9	
2012	7-Mar-12	19		331.4		502.4	1528.1		332.1	
2012	7-Mar-12	20		291.7		426.8	1438.6		327.6	
2012	7-Mar-12	21		283.4		424.1	1396.3		325.3	
2012	7-Mar-12	22		350.9		421.6	1395.7		326.7	
2012	7-Mar-12	23		379		408.8	1357.1		414.6	
2012	8-Mar-12	0		389.1		435.6	1032.9		504.7	
2012	8-Mar-12	1		381.4		427	256.7		448.7	
2012	8-Mar-12	2		394.6		437.7	101.156		347.9	
2012	8-Mar-12	3		397.6		433.1			326.2	
2012	8-Mar-12	4		395.2		429			353.4	
2012	8-Mar-12	5		580.4		684.6			333.9	
2012	8-Mar-12	6		808.1		1537			324.3	
2012	8-Mar-12	7		608.4		1965			330.9	
2012	8-Mar-12	8		402.7		1340.1			307.1	
2012	8-Mar-12	9		635.4		556.3			303.8	
2012	8-Mar-12	10		746		449.8			301.7	
2012	8-Mar-12	11		113.3		414.7			305	
2012	8-Mar-12	12		108.4		411.2			302.9	
2012	8-Mar-12	13		112		420.2			302.1	
2012	8-Mar-12	14		96.9		418.7			303.1	
2012	8-Mar-12	15		103.9		424.5			371.9	
2012	8-Mar-12	16		108		426.4			384.7	
2012	8-Mar-12	17		111.1		427.5			384.8	
2012	8-Mar-12	18		355.9		424.3			374.3	
2012	8-Mar-12	19		546.4		422.9			371.1	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-Mar-12	20		553.7		422.8			341.9	
2012	8-Mar-12	21		571.4		424			341.7	
2012	8-Mar-12	22		498.6		423.7			336.1	
2012	8-Mar-12	23		512.4		420.8			198.6	
2012	9-Mar-12	0		506.8		416.4			143.2	
2012	9-Mar-12	1		497.4		413.1			143.1	
2012	9-Mar-12	2		486.2		417.4			94.9	
2012	9-Mar-12	3		456		410.8			101.6	
2012	9-Mar-12	4		543.9		415			32.486	
2012	9-Mar-12	5		356.2		805.2				
2012	9-Mar-12	6		526.2		1491.6				
2012	9-Mar-12	7		905		2042.6				
2012	9-Mar-12	8		958.3		2056.9				
2012	9-Mar-12	9		812.9		2043.7				
2012	9-Mar-12	10		921.5		2040				
2012	9-Mar-12	11		731.3		2026.5				
2012	9-Mar-12	12		861.3		2011.7				
2012	9-Mar-12	13		590.6		1828.8				
2012	9-Mar-12	14		452.6		1299.2				
2012	9-Mar-12	15		383.5		504.8				
2012	9-Mar-12	16		353.9		420.9				
2012	9-Mar-12	17		300.7		404.2				
2012	9-Mar-12	18		99.3		403.1				
2012	9-Mar-12	19		148		472				
2012	9-Mar-12	20		67.3		403.5				
2012	9-Mar-12	21		7.4		404.8				
2012	9-Mar-12	22		5		402.1				
2012	9-Mar-12	23		9.3		401.7				
2012	10-Mar-12	0		17.8		401.2				
2012	10-Mar-12	1		84.7		512.3				
2012	10-Mar-12	2		99.1		1277.5				
2012	10-Mar-12	3		30.3		1328.5				
2012	10-Mar-12	4		31.9		596.6				
2012	10-Mar-12	5		33.9		416.4				
2012	10-Mar-12	6		36.2		885.4				
2012	10-Mar-12	7		95		1163.8				
2012	10-Mar-12	8		79.2		1462				
2012	10-Mar-12	9		38.2		1551.7				
2012	10-Mar-12	10		84.2		1084.1				
2012	10-Mar-12	11		828.6		486.6				
2012	10-Mar-12	12		757.1		400.2				
2012	10-Mar-12	13		659.1		391.6				
2012	10-Mar-12	14		562.7		401.4				
2012	10-Mar-12	15		557.9		399.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-Mar-12	16		496.4		402				
2012	10-Mar-12	17		470.8		406.5				
2012	10-Mar-12	18		399.7		665.2				
2012	10-Mar-12	19		486.4		651				
2012	10-Mar-12	20		523.3		425.7				
2012	10-Mar-12	21		523.7		425.1				
2012	10-Mar-12	22		560.6		424.7				
2012	10-Mar-12	23		589.5		410.2				
2012	11-Mar-12	0		604.8		408.1				
2012	11-Mar-12	1		540.5		410.6				
2012	11-Mar-12	2		520		410.3				
2012	11-Mar-12	3		509.3		415.7				
2012	11-Mar-12	4		527.5		419.5				
2012	11-Mar-12	5		545.2		418.8				
2012	11-Mar-12	6		598.7		581.4				
2012	11-Mar-12	7		381.9		1325.6				
2012	11-Mar-12	8		212.2		1526.6				
2012	11-Mar-12	9		165.7		1456.3				
2012	11-Mar-12	10		159.3		566.2				
2012	11-Mar-12	11		108.6		425.7				
2012	11-Mar-12	12		288.6		424.1				
2012	11-Mar-12	13		430.6		429.6				
2012	11-Mar-12	14		345.6		428.9				
2012	11-Mar-12	15		369.9		429.4				
2012	11-Mar-12	16		409.5		440.9				
2012	11-Mar-12	17		426.6		428.4				
2012	11-Mar-12	18		469.5		538.4				
2012	11-Mar-12	19		600.6		976.1				
2012	11-Mar-12	20		518.2		492.9				
2012	11-Mar-12	21		471.7		414.1				
2012	11-Mar-12	22		486.2		396.8				
2012	11-Mar-12	23		510.3		395.9				
2012	12-Mar-12	0		501		396.9				
2012	12-Mar-12	1		525.6		397.2				
2012	12-Mar-12	2		578.5		399.9				
2012	12-Mar-12	3		698.1		588.2				
2012	12-Mar-12	4		948.1		419.1				
2012	12-Mar-12	5		1017.1		1028.6				
2012	12-Mar-12	6		133.3		1263.9				
2012	12-Mar-12	7		462.9		1956.8				
2012	12-Mar-12	8		694.5		2006.7				
2012	12-Mar-12	9		838.9		1979.6				
2012	12-Mar-12	10		1053.2		1972				
2012	12-Mar-12	11		724.4		1969.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	12-Mar-12	12		689		2023				
2012	12-Mar-12	13		763.2		2146.3				
2012	12-Mar-12	14		912.9		2064.9				
2012	12-Mar-12	15		983.7		2027.7				
2012	12-Mar-12	16		947.6		1997.1				
2012	12-Mar-12	17		854.1		1872				
2012	12-Mar-12	18		759		1875.6				
2012	12-Mar-12	19		911		1973.9				
2012	12-Mar-12	20		1020.2		1938				
2012	12-Mar-12	21		1073.5		1977.7				
2012	12-Mar-12	22		659		1741.4				
2012	12-Mar-12	23		316.1		1145.4				
2012	13-Mar-12	0		285.9		465.6				
2012	13-Mar-12	1		262.5		411.4				
2012	13-Mar-12	2		226.3		412.7				
2012	13-Mar-12	3		224.6		405.2				
2012	13-Mar-12	4		316.7		389.5				
2012	13-Mar-12	5		228.5		994.6				
2012	13-Mar-12	6		230.8		1183.5				
2012	13-Mar-12	7		310.5		1274.7				
2012	13-Mar-12	8		498.6		1467.8				
2012	13-Mar-12	9		711.9		1876.9				
2012	13-Mar-12	10		963.9		1926.9				
2012	13-Mar-12	11		1102.6		1936				
2012	13-Mar-12	12		1140.2		1977.1				
2012	13-Mar-12	13		1120.7		1976.3				
2012	13-Mar-12	14		1029.8		1970.8				
2012	13-Mar-12	15		1082.4		2020.3				
2012	13-Mar-12	16		1029.9		1822.3				
2012	13-Mar-12	17		765.6		1492.1				
2012	13-Mar-12	18		621.5		1326				
2012	13-Mar-12	19		962.3		1762.2				
2012	13-Mar-12	20		1169.1		2088.4				
2012	13-Mar-12	21		1011.2		1858.9				
2012	13-Mar-12	22		739.6		1480.2				
2012	13-Mar-12	23		520.5		685.6				
2012	14-Mar-12	0		383.3		473.7				
2012	14-Mar-12	1		325.1		502.5				
2012	14-Mar-12	2		485.1		462.2				
2012	14-Mar-12	3		700.3		514.5				
2012	14-Mar-12	4		575.6		427.4				
2012	14-Mar-12	5		407.1		600				
2012	14-Mar-12	6		503.6		1196.3				
2012	14-Mar-12	7		492.6		700.2				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	14-Mar-12	8		695.4		1203.3				
2012	14-Mar-12	9		786.1		1254.7				
2012	14-Mar-12	10		951.3		1536.9				
2012	14-Mar-12	11		935.3		1620.3				
2012	14-Mar-12	12		1084.2		1623.2				
2012	14-Mar-12	13		1091.3		1629.8				
2012	14-Mar-12	14		1301.4		1969.4				
2012	14-Mar-12	15		1306.6		2072				
2012	14-Mar-12	16		1187.4		2096.6				
2012	14-Mar-12	17		1042.8		2074.2				
2012	14-Mar-12	18		724.4		2040.7				
2012	14-Mar-12	19		1040.5		2039.7				
2012	14-Mar-12	20		1273.6		1965.2				
2012	14-Mar-12	21		827.1		1545.9				
2012	14-Mar-12	22		430.8		960				
2012	14-Mar-12	23		108.4		467				
2012	15-Mar-12	0		203.1		398.9				
2012	15-Mar-12	1		378.1		385.2				
2012	15-Mar-12	2		525.9		392.4				
2012	15-Mar-12	3		508.4		396.5				
2012	15-Mar-12	4		496.1		415.4				
2012	15-Mar-12	5		252.7		424.6				
2012	15-Mar-12	6		281.5		444.2				
2012	15-Mar-12	7		675.7		398.1				
2012	15-Mar-12	8		780		407.1				
2012	15-Mar-12	9		585.9		424				
2012	15-Mar-12	10		457.2		408.6				
2012	15-Mar-12	11		346.1		404.2				
2012	15-Mar-12	12		111.2		409.9				
2012	15-Mar-12	13		79.1		928.4				
2012	15-Mar-12	14		111.5		1332.6				
2012	15-Mar-12	15		64.7		872				
2012	15-Mar-12	16		45.3		459.4				
2012	15-Mar-12	17		71.7		548.3				
2012	15-Mar-12	18		113.4		1276.9				
2012	15-Mar-12	19		291.6		1476.8				
2012	15-Mar-12	20		184.2		1426.1				
2012	15-Mar-12	21		108.7		1312.9				
2012	15-Mar-12	22		71.8		558.1				
2012	15-Mar-12	23		56		461.2				
2012	16-Mar-12	0		57.9		444.2				
2012	16-Mar-12	1		192.6		432.5				
2012	16-Mar-12	2		246.9		435.1				
2012	16-Mar-12	3		194.1		429.8				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	16-Mar-12	4		198.9		452.2				
2012	16-Mar-12	5		193.2		788.4				
2012	16-Mar-12	6		341.3		1051.1				
2012	16-Mar-12	7		633.3		511.7				
2012	16-Mar-12	8		460.6		500.2				
2012	16-Mar-12	9		434.4		822.2				
2012	16-Mar-12	10		454.4		605.8				
2012	16-Mar-12	11		251.4		484.2				
2012	16-Mar-12	12		74.2		473.4				
2012	16-Mar-12	13		251.1		491.6				
2012	16-Mar-12	14		319		482.9				
2012	16-Mar-12	15		255.8		472.6				
2012	16-Mar-12	16		230.3		463.3				
2012	16-Mar-12	17		236.9		470.8				
2012	16-Mar-12	18		250.4		477.4				
2012	16-Mar-12	19		307.3		524.5				
2012	16-Mar-12	20		242.6		942.3				
2012	16-Mar-12	21		137.3		520.3				
2012	16-Mar-12	22		151.4		496.2				
2012	16-Mar-12	23		181.9		498				
2012	17-Mar-12	0		173.4		498.2				
2012	17-Mar-12	1		220.3		494.4				
2012	17-Mar-12	2		219.9		495.5				
2012	17-Mar-12	3		188.7		496.9				
2012	17-Mar-12	4		193.6		490.5				
2012	17-Mar-12	5		178.8		484.3				
2012	17-Mar-12	6		158.1		487.7				
2012	17-Mar-12	7		189.9		463.6				
2012	17-Mar-12	8		226.5		775.5				
2012	17-Mar-12	9		266.7		1731.1				
2012	17-Mar-12	10		342.1		1666.3				
2012	17-Mar-12	11		1035.7		1588.2				
2012	17-Mar-12	12		1429.8		1583.2				
2012	17-Mar-12	13		1771.8		1603.2				
2012	17-Mar-12	14		881.4		1976.8				
2012	17-Mar-12	15		633.6		2165				
2012	17-Mar-12	16		600.3		2171.8				
2012	17-Mar-12	17		544.7		2212.9				
2012	17-Mar-12	18		313.3		2203.7				
2012	17-Mar-12	19		507.9		2219.7				
2012	17-Mar-12	20		613.4		2209.7				
2012	17-Mar-12	21		463.6		1908.3				
2012	17-Mar-12	22		155.5		1219.6				
2012	17-Mar-12	23		49.2		705.2				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	18-Mar-12	0		80.4		466				
2012	18-Mar-12	1		136.2		418.6				
2012	18-Mar-12	2		168.7		415.7				
2012	18-Mar-12	3		162.1		416.8				
2012	18-Mar-12	4		160		419				
2012	18-Mar-12	5		140.6		480				
2012	18-Mar-12	6		179.1		658				
2012	18-Mar-12	7		454.3		508.6				
2012	18-Mar-12	8		684.2		410.8				
2012	18-Mar-12	9		679		434.4				
2012	18-Mar-12	10		653.4		1019.5				
2012	18-Mar-12	11		529.3		1365				
2012	18-Mar-12	12		546.6		2081.4				
2012	18-Mar-12	13		771.5		2120.8				
2012	18-Mar-12	14		520.7		2115				
2012	18-Mar-12	15		494		2162.8				
2012	18-Mar-12	16		503.2		2197.8				
2012	18-Mar-12	17		262.1		2073.9				
2012	18-Mar-12	18		197		2223.9				
2012	18-Mar-12	19		456.2		2187				
2012	18-Mar-12	20		518.5		2207.9				
2012	18-Mar-12	21		530.9		2242.1				
2012	18-Mar-12	22		335.7		2087.2				
2012	18-Mar-12	23		77.1		1495.6				
2012	19-Mar-12	0		98.5		793.9				
2012	19-Mar-12	1		189.7		534.4				
2012	19-Mar-12	2		159.2		498.3				
2012	19-Mar-12	3		99.2		511.7				
2012	19-Mar-12	4		150.2		848.6				
2012	19-Mar-12	5		281.9		1662.8				
2012	19-Mar-12	6		471.2		2109.5				
2012	19-Mar-12	7		772.5		2127.2				
2012	19-Mar-12	8		687.2		2151.2				
2012	19-Mar-12	9		501.4		2142.2				
2012	19-Mar-12	10		514		2123.1				
2012	19-Mar-12	11		926.7		2099.3				
2012	19-Mar-12	12		476.8		1967.5				
2012	19-Mar-12	13		580.1		1959.8				
2012	19-Mar-12	14		550		2089.6				
2012	19-Mar-12	15		499.6		2102.5				
2012	19-Mar-12	16		540.2		2072.2				
2012	19-Mar-12	17		537.5		2089.2				
2012	19-Mar-12	18		554.1		2002.7				
2012	19-Mar-12	19		928.6		2052.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-Mar-12	20		1184.1		2061.4				
2012	19-Mar-12	21		1159.7		2047.8	0			
2012	19-Mar-12	22		560.3		1453.5	0			
2012	19-Mar-12	23		323.6		830.5	7.3			
2012	20-Mar-12	0		214.3		534.5	162.4			
2012	20-Mar-12	1		173.7		568.5	263.1			
2012	20-Mar-12	2		169.5		581.2	286.1			
2012	20-Mar-12	3		151.2		570.8	327.3			
2012	20-Mar-12	4		210.8		743	624.4			
2012	20-Mar-12	5		326.3		1801.7	1225.5			
2012	20-Mar-12	6		582.9		1996.8	376.926			
2012	20-Mar-12	7		829.7		2000.4	88.8			
2012	20-Mar-12	8		1322.8		2011.6	318.6			
2012	20-Mar-12	9		1266.9		2119.2	331.1			
2012	20-Mar-12	10		1130.2		2104.8	887.7			
2012	20-Mar-12	11		916		2046.1	1337			
2012	20-Mar-12	12		665.1		2001.5	1475.8			
2012	20-Mar-12	13		766.9		1828.9	1678.8			
2012	20-Mar-12	14		642.8		1763.9	1804.4			
2012	20-Mar-12	15		519.4		1864.5	1986.3			
2012	20-Mar-12	16		533.6		2044	2199.1			
2012	20-Mar-12	17		552.9		2085.7	2412.2			
2012	20-Mar-12	18		546.1		2056.9	2304.6			
2012	20-Mar-12	19		634.2		2100.4	1842.8			
2012	20-Mar-12	20		617.1		2073.4	1378.4			
2012	20-Mar-12	21		421.7		2016.8	689.767			
2012	20-Mar-12	22		317.3		1846.4				
2012	20-Mar-12	23		252		1820.4				
2012	21-Mar-12	0		185.7		1015.9				
2012	21-Mar-12	1		212.9		442.3				
2012	21-Mar-12	2		181.7		429.8				
2012	21-Mar-12	3		156.2		427.5				
2012	21-Mar-12	4		160.5		694.5				
2012	21-Mar-12	5		219.3		1520.8				
2012	21-Mar-12	6		396.8		2071.5				
2012	21-Mar-12	7		605.8		2091.5				
2012	21-Mar-12	8		842.7		2019.9				
2012	21-Mar-12	9		393.4		2028.2				
2012	21-Mar-12	10		406.7		2034.1				
2012	21-Mar-12	11		473.2		1994.8				
2012	21-Mar-12	12		512.3		1941.2				
2012	21-Mar-12	13		600.8		2017.2				
2012	21-Mar-12	14		639.2		1856.1				
2012	21-Mar-12	15		621.8		1927.6				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-Mar-12	16		780.5		1928.8				
2012	21-Mar-12	17		1141.1		2051.8				
2012	21-Mar-12	18		887		1588.6				
2012	21-Mar-12	19		1107.3		1738.8				
2012	21-Mar-12	20		1506.9		2011.8				
2012	21-Mar-12	21		769.6		1982.6				
2012	21-Mar-12	22		486.6		1977.2	0			
2012	21-Mar-12	23		398		1562.9	0			
2012	22-Mar-12	0		447.8		922.9	41.8			
2012	22-Mar-12	1		410		434.8	219.2			
2012	22-Mar-12	2		355.3		424.9	227.6			
2012	22-Mar-12	3		272.7		564	311.1			
2012	22-Mar-12	4		446.3		1407.9	575.4			
2012	22-Mar-12	5		855		1967.5	1136.9			
2012	22-Mar-12	6		889.6		2000.6	1351.8			
2012	22-Mar-12	7		846.7		2046.1	1374.3			
2012	22-Mar-12	8		802.2		2049.7	1713.4			
2012	22-Mar-12	9		701.3		2046.8	2098.4			
2012	22-Mar-12	10		691.6		2033	2199.8			
2012	22-Mar-12	11		684.3		2017.1	2164.5			
2012	22-Mar-12	12		719.7		2008.4	2152.8			
2012	22-Mar-12	13		1002.1		2006.9	2175.3			
2012	22-Mar-12	14		1144.9		1999.4	2173.7			
2012	22-Mar-12	15		1147.3		2012.6	2201.7			
2012	22-Mar-12	16		1018.6		1977.1	2113.3			
2012	22-Mar-12	17		640.5		2038.4	2044.6			
2012	22-Mar-12	18		482.5		1736.4	1905.7			
2012	22-Mar-12	19		488.8		1942.6	2242.2			
2012	22-Mar-12	20		474		1945.1	2279.1			
2012	22-Mar-12	21		404.5		1946.3	2272.4			
2012	22-Mar-12	22		371.4		1934.2	2287.4			
2012	22-Mar-12	23		337.1		2023.9	2279.5			
2012	23-Mar-12	0		207.2		1534.7	1996.2			
2012	23-Mar-12	1		132.1		858.4	1609			
2012	23-Mar-12	2		88.3		408.2	1454.8			
2012	23-Mar-12	3		67.4		601.9	1530.3			
2012	23-Mar-12	4		116.2		1619.8	1856.4			
2012	23-Mar-12	5		162.7		1995.4	2334.5			
2012	23-Mar-12	6		511.4		2007.9	2546.9			
2012	23-Mar-12	7		1326.6		1978	2581.5			
2012	23-Mar-12	8		1172		2029.7	2580.5			
2012	23-Mar-12	9		790.9		2039.7	2606.2			
2012	23-Mar-12	10		379.9		2027	2620.7			
2012	23-Mar-12	11		536.3		2032.7	2615.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	23-Mar-12	12		665.9		2037.1	2638.7			
2012	23-Mar-12	13		765.3		2033.4	2670.5			
2012	23-Mar-12	14		742.6		2027.4	2679.6			
2012	23-Mar-12	15		557.3		2042.1	2691.4			
2012	23-Mar-12	16		525		2049	2685			
2012	23-Mar-12	17		641.5		2054.8	2683.4			
2012	23-Mar-12	18		589.2		1658.2	2441.1			
2012	23-Mar-12	19		452.3		1158.4	2038.3			
2012	23-Mar-12	20		249.2		627.6	1775.8			
2012	23-Mar-12	21		184.4		431.1	1685.1			
2012	23-Mar-12	22		122.2		455.9	1735.7			
2012	23-Mar-12	23		83.2		423.8	1479.5			
2012	24-Mar-12	0		59.6		430.4	1454.8			
2012	24-Mar-12	1		3.69		431.6	1480.9			
2012	24-Mar-12	2				432.9	1477.4			
2012	24-Mar-12	3				435.1	1471.1			
2012	24-Mar-12	4				435.9	1460.9			
2012	24-Mar-12	5				435.1	1438.1			
2012	24-Mar-12	6				435.6	1441.6			
2012	24-Mar-12	7				428.8	1420.5			
2012	24-Mar-12	8				481.5	1528.5			
2012	24-Mar-12	9				471.2	1549.7			
2012	24-Mar-12	10				1067.8	1706.3			
2012	24-Mar-12	11				922.3	1833.2			
2012	24-Mar-12	12				1335.7	2014.2			
2012	24-Mar-12	13				1293.8	2098			
2012	24-Mar-12	14				1376.8	2089.2			
2012	24-Mar-12	15				1888.8	2320.7			
2012	24-Mar-12	16				2030.2	2580.2			
2012	24-Mar-12	17				1889.4	2422.1			
2012	24-Mar-12	18				1256.2	2001.5			
2012	24-Mar-12	19				599.1	1803.3			
2012	24-Mar-12	20				410.3	1586.7			
2012	24-Mar-12	21				442.3	1468.9			
2012	24-Mar-12	22				436.8	1468			
2012	24-Mar-12	23				431	1468.5			
2012	25-Mar-12	0				434.5	1471			
2012	25-Mar-12	1				427	1472			
2012	25-Mar-12	2				422.9	1475.2			
2012	25-Mar-12	3				424.8	1479.6			
2012	25-Mar-12	4				426.5	1475.8			
2012	25-Mar-12	5				425.5	1482			
2012	25-Mar-12	6				431.8	1486			
2012	25-Mar-12	7				422.8	1441.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	25-Mar-12	8				430.5	1455			
2012	25-Mar-12	9				436.6	1454.6			
2012	25-Mar-12	10				436.5	1460.1			
2012	25-Mar-12	11				439.3	1468			
2012	25-Mar-12	12				439.2	1469.7			
2012	25-Mar-12	13				445.1	1512.1			
2012	25-Mar-12	14				497.9	1624.2			
2012	25-Mar-12	15				527.9	1895.7			
2012	25-Mar-12	16				623	2095.3			
2012	25-Mar-12	17				1100.6	2168.2			
2012	25-Mar-12	18				565.1	1984.8			
2012	25-Mar-12	19		0.272		1295.1	2251.5			
2012	25-Mar-12	20		0		1149.5	2032.6			
2012	25-Mar-12	21		0		647.6	2049.8			
2012	25-Mar-12	22		0		444.6	1855.4			
2012	25-Mar-12	23		7.1		430.1	1546.4			
2012	26-Mar-12	0		1.6		432.1	1548.5			
2012	26-Mar-12	1		1.6		427	1545.7			
2012	26-Mar-12	2		0		428.5	1542.9			
2012	26-Mar-12	3		0		430.7	1535.1			
2012	26-Mar-12	4		0		554.3	1578.4			
2012	26-Mar-12	5		0		1545.9	1959.6			
2012	26-Mar-12	6		0		2133.7	2675.1			
2012	26-Mar-12	7		4.6		2067.2	2738.2			
2012	26-Mar-12	8		1.5		1997.2	2735.3			
2012	26-Mar-12	9		0		2064.3	2734.3			
2012	26-Mar-12	10		0		2080.7	2711.8			
2012	26-Mar-12	11		0		2128.8	2718.4			
2012	26-Mar-12	12		0		2126.7	2738			
2012	26-Mar-12	13		1.6		2117	2744.4			
2012	26-Mar-12	14		0		1621.1	2508.2			
2012	26-Mar-12	15		0		1514.4	2114.7			
2012	26-Mar-12	16		0		1489.9	1814.7			
2012	26-Mar-12	17		0		1381	1547.7			
2012	26-Mar-12	18		0		1327.1	1513.8			
2012	26-Mar-12	19		2		1501.5	1866.8			
2012	26-Mar-12	20		2.4		959.2	1691.4			
2012	26-Mar-12	21		2.5		421.7	1457.6			
2012	26-Mar-12	22		4.5		438.1	1478			
2012	26-Mar-12	23		3		430.5	1490.4			
2012	27-Mar-12	0		4.5		437.3	1475.4			
2012	27-Mar-12	1		12.9		441.8	1464			
2012	27-Mar-12	2		12.6		441.7	1449.7			
2012	27-Mar-12	3		25.5		440.9	1494.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	27-Mar-12	4		51.2		440.2	1653.6			
2012	27-Mar-12	5		43.7		796.8	1887.5			
2012	27-Mar-12	6		52		1553.4	2169.4			
2012	27-Mar-12	7		484.3		1439.8	2287.3			
2012	27-Mar-12	8		887.6		1412.1	2372.5			
2012	27-Mar-12	9		393.8		1317	2463			
2012	27-Mar-12	10		207.1		1312.8	2581.2			
2012	27-Mar-12	11		182.3		942.2	2357.6			
2012	27-Mar-12	12		183.8		415.5	2116			
2012	27-Mar-12	13		439.7		419.3	2064.3			
2012	27-Mar-12	14		438		416.3	1879.6			
2012	27-Mar-12	15		294.7		408.6	1712.5			
2012	27-Mar-12	16		291.5		409	1644.8			
2012	27-Mar-12	17		291.5		410.3	1607.3			
2012	27-Mar-12	18		314.8		421.2	1567.1			
2012	27-Mar-12	19		669.6		1005.6	1844.4			
2012	27-Mar-12	20		737.5		1387.3	2071.2			
2012	27-Mar-12	21		334.7		1125.6	1911.7			
2012	27-Mar-12	22		299.6		634.4	1594.4			
2012	27-Mar-12	23		311.2		463.2	1042.055			
2012	28-Mar-12	0		320.2		512.9				
2012	28-Mar-12	1		328.1		527.2				
2012	28-Mar-12	2		491.2		530.1				
2012	28-Mar-12	3		424.8		530.3				
2012	28-Mar-12	4		398.3		436.1				
2012	28-Mar-12	5		425.7		884.1				
2012	28-Mar-12	6		457.9		1314.8				
2012	28-Mar-12	7		790.8		1157.6				
2012	28-Mar-12	8		522.5		992.1				
2012	28-Mar-12	9		235.8		515.2				
2012	28-Mar-12	10		219.3		450.5				
2012	28-Mar-12	11		246.4		451.9				
2012	28-Mar-12	12		330.2		429.6				
2012	28-Mar-12	13		351.7		677.5				
2012	28-Mar-12	14		429.9		1321.8				
2012	28-Mar-12	15		376.4		1869.6				
2012	28-Mar-12	16		392.4		1896.3				
2012	28-Mar-12	17		339.4		1076.1				
2012	28-Mar-12	18		373.6		924.9				
2012	28-Mar-12	19		558.4		1828.7				
2012	28-Mar-12	20		762.3		2110.3				
2012	28-Mar-12	21		600.8		2054.9				
2012	28-Mar-12	22		355.1		1830.5				
2012	28-Mar-12	23		208		1134.9				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	29-Mar-12	0		245.3		652.9				
2012	29-Mar-12	1		433.6		525				
2012	29-Mar-12	2		395.1		499.8				
2012	29-Mar-12	3		363.1		729.8				
2012	29-Mar-12	4		628.9		1829.5				
2012	29-Mar-12	5		612.9		2082				
2012	29-Mar-12	6		482.4		2073.1				
2012	29-Mar-12	7		713.3		2051.4				
2012	29-Mar-12	8		852.4		2086.6				
2012	29-Mar-12	9		688.7		2078.3				
2012	29-Mar-12	10		416.1		2096.1				
2012	29-Mar-12	11		345.3		2087.6				
2012	29-Mar-12	12		342.5		2086.3				
2012	29-Mar-12	13		609.5		2109.2				
2012	29-Mar-12	14		855.5		2104.3				
2012	29-Mar-12	15		795.7		2112.9				
2012	29-Mar-12	16		808.4		2050				
2012	29-Mar-12	17		636.7		1906.5				
2012	29-Mar-12	18		407.9		1637.4				
2012	29-Mar-12	19		736.2		2106.9				
2012	29-Mar-12	20		834.2		2048.1				
2012	29-Mar-12	21		769.9		2012.1				
2012	29-Mar-12	22		372.6		1647.2				
2012	29-Mar-12	23		201.8		935				
2012	30-Mar-12	0		204.8		553.2				
2012	30-Mar-12	1		287.4		496.5				
2012	30-Mar-12	2		314.5		486.1				
2012	30-Mar-12	3		278.8		489.8				
2012	30-Mar-12	4		451.8		897.1				
2012	30-Mar-12	5		620.7		1825.7				
2012	30-Mar-12	6		983		2075.7				
2012	30-Mar-12	7		1120.1		2118.3				
2012	30-Mar-12	8		748.1		2041.3				
2012	30-Mar-12	9		505.4		2047.8				
2012	30-Mar-12	10		643.7		2036.6				
2012	30-Mar-12	11		664.4		2114.2				
2012	30-Mar-12	12		769.8		2109.1				
2012	30-Mar-12	13		977.9		2109.2				
2012	30-Mar-12	14		931.3		2109.4				
2012	30-Mar-12	15		718.9		2119.4				
2012	30-Mar-12	16		736		2108.1				
2012	30-Mar-12	17		690.9		1999.9				
2012	30-Mar-12	18		489.2		1698				
2012	30-Mar-12	19		654.1		1763.9				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	30-Mar-12	20		459		1471				
2012	30-Mar-12	21		157.8		688.344				
2012	30-Mar-12	22		89						
2012	30-Mar-12	23		61.7						
2012	31-Mar-12	0		98.8						
2012	31-Mar-12	1		269.2						
2012	31-Mar-12	2		302.2						
2012	31-Mar-12	3		238.1						
2012	31-Mar-12	4		277.1						
2012	31-Mar-12	5		291.5						
2012	31-Mar-12	6		328.1						
2012	31-Mar-12	7		487.1						
2012	31-Mar-12	8		594.6						
2012	31-Mar-12	9		234.2						
2012	31-Mar-12	10		410.1						
2012	31-Mar-12	11		531.6						
2012	31-Mar-12	12		524.3						
2012	31-Mar-12	13		663.5						
2012	31-Mar-12	14		589.4						
2012	31-Mar-12	15		506.3						
2012	31-Mar-12	16		542						
2012	31-Mar-12	17		305.5						
2012	31-Mar-12	18		85.2						
2012	31-Mar-12	19		166.8						
2012	31-Mar-12	20		157.9						
2012	31-Mar-12	21		355.5						
2012	31-Mar-12	22		434.2						
2012	31-Mar-12	23		465.8						
2012	1-Apr-12	0		393.4	0.095					
2012	1-Apr-12	1		362.2	0.1					
2012	1-Apr-12	2		433.1	0.069					
2012	1-Apr-12	3		424.9	0.075					
2012	1-Apr-12	4		455	0.081					
2012	1-Apr-12	5		472.6	0.072					
2012	1-Apr-12	6		512	0.071					
2012	1-Apr-12	7		637.5	0.076					
2012	1-Apr-12	8		621	0.066		0			
2012	1-Apr-12	9		520.4	0.077		89.9			
2012	1-Apr-12	10		363.6	0.068		228			
2012	1-Apr-12	11		314.2	0.069		322.5			
2012	1-Apr-12	12		386.7	0.077		353			
2012	1-Apr-12	13		698.9	0.066		359.9			
2012	1-Apr-12	14		345	0.066		580.6			
2012	1-Apr-12	15		169.8	0.074		1179.9			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	1-Apr-12	16		164.5	0.051		1264.5			
2012	1-Apr-12	17		159.6	0.04		1339.4			
2012	1-Apr-12	18		150.9	0.037		1480.3			
2012	1-Apr-12	19		162.1	0.003		1467.1			
2012	1-Apr-12	20		167.9			1486			
2012	1-Apr-12	21		139.6			1487.8			
2012	1-Apr-12	22		130.4			1503.8			
2012	1-Apr-12	23		121.7			1508.8			
2012	2-Apr-12	0		111.1			1510			
2012	2-Apr-12	1		128.8			1506.7			
2012	2-Apr-12	2		169.9			1509.6			
2012	2-Apr-12	3		171.6			1511.5			
2012	2-Apr-12	4		138.5			1501.7			
2012	2-Apr-12	5		160.2			1498.2			
2012	2-Apr-12	6		144.9			1483.6			
2012	2-Apr-12	7		204.1			1622.5			
2012	2-Apr-12	8		195.3			1483			
2012	2-Apr-12	9		181.5			1500.6			
2012	2-Apr-12	10		144.2			1556.2			
2012	2-Apr-12	11		144.4			1502.1			
2012	2-Apr-12	12		163.3			1563.9			
2012	2-Apr-12	13		416.4			1798.3			
2012	2-Apr-12	14		387.5			1946.3			
2012	2-Apr-12	15		299.1			2345.3			
2012	2-Apr-12	16		376.6			2521.4			
2012	2-Apr-12	17		399.6			2698.5			
2012	2-Apr-12	18		417.5			2691.6			
2012	2-Apr-12	19		512.6			2690.5			
2012	2-Apr-12	20		497.7			2516.7			
2012	2-Apr-12	21		296.8			2079.5			
2012	2-Apr-12	22		262.1			1723.5			
2012	2-Apr-12	23		172.3			1471.1			
2012	3-Apr-12	0		231.4			1651.4			
2012	3-Apr-12	1		423			1511.1			
2012	3-Apr-12	2		466.2			1494.9			
2012	3-Apr-12	3		373.5			1508			
2012	3-Apr-12	4		443.4			1504.6			
2012	3-Apr-12	5		546.9			1681.4			
2012	3-Apr-12	6		762.2			2201.4			
2012	3-Apr-12	7		1558.8	0.015		2623			
2012	3-Apr-12	8		2491.5	0.046		2648.6			
2012	3-Apr-12	9		2484.6	0.052		2667			
2012	3-Apr-12	10		941	0.067		2674.3			
2012	3-Apr-12	11		357.6			2698.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	3-Apr-12	12		275.3			2691.1			
2012	3-Apr-12	13		289.6			2680.6			
2012	3-Apr-12	14		317.1			2680			
2012	3-Apr-12	15		327.9			2646.8			
2012	3-Apr-12	16		306.4			2429.2			
2012	3-Apr-12	17		306.8			2162.7			
2012	3-Apr-12	18		325.5			2099.6			
2012	3-Apr-12	19		445.7			2363.3			
2012	3-Apr-12	20		398.3			2449.7			
2012	3-Apr-12	21		266.6			2211			
2012	3-Apr-12	22		199.6			2130.8			
2012	3-Apr-12	23		74.3			1842.5			
2012	4-Apr-12	0		44.8			1586.3			
2012	4-Apr-12	1		66.6			1494			
2012	4-Apr-12	2		164.5			1486.1			
2012	4-Apr-12	3		144.5			1488.9			
2012	4-Apr-12	4		153			1487.4			
2012	4-Apr-12	5		209			1599.4			
2012	4-Apr-12	6		377.4			2164.1			
2012	4-Apr-12	7		612.6			2209.1			
2012	4-Apr-12	8		814.7			2195.9			
2012	4-Apr-12	9		515.4			2205.7			
2012	4-Apr-12	10		561.6			2203.9			
2012	4-Apr-12	11		646.9			2241			
2012	4-Apr-12	12		800.5			2251.6			
2012	4-Apr-12	13		987.3			2289.5			
2012	4-Apr-12	14		1200.2			2265.4			
2012	4-Apr-12	15		832.2			2283.8			
2012	4-Apr-12	16		434.5			2311.6			
2012	4-Apr-12	17		436.9			2364.8			
2012	4-Apr-12	18		383.9			2288.5			
2012	4-Apr-12	19		336.1	0.055		2251.5			
2012	4-Apr-12	20		272.4	0.064		2237.3			
2012	4-Apr-12	21		240.7	0.06		2236.4			
2012	4-Apr-12	22		210.2	0.076		2241.8			
2012	4-Apr-12	23		262.8	0.054		2193.3			
2012	5-Apr-12	0		387.3	0.05		1960.5			
2012	5-Apr-12	1		394.3	0.066		1818.2			
2012	5-Apr-12	2		460.1	0.076		1587.6			
2012	5-Apr-12	3		351.6	0.073		1550			
2012	5-Apr-12	4		359.9	0.163		1563.9			
2012	5-Apr-12	5		340.7	0.233		1586			
2012	5-Apr-12	6		369.1	0.246		1685			
2012	5-Apr-12	7		448.4	0.375		2265.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	5-Apr-12	8		346.6	0.446		2620.3			
2012	5-Apr-12	9		239.2	0.257		2548.7			
2012	5-Apr-12	10		382.1	0.219		2604.8			
2012	5-Apr-12	11		476.7	0.218		2670			
2012	5-Apr-12	12		642.6	0.24		2715.8			
2012	5-Apr-12	13		1198.7	0.219		2588.2			
2012	5-Apr-12	14		1322.8	0.22		2756.2			
2012	5-Apr-12	15		1066.9	0.219		2719			
2012	5-Apr-12	16		791.6	0.219		2562.9			
2012	5-Apr-12	17		796.6	0.219		2570.8			
2012	5-Apr-12	18		948.5	0.219		2610.4			
2012	5-Apr-12	19		1405	0.218		2789.8			
2012	5-Apr-12	20		1439.5	0.218		2819.7			
2012	5-Apr-12	21		1198.7	0.219		2814.4			
2012	5-Apr-12	22		1073	0.219		2646.8			
2012	5-Apr-12	23		929.9	0.219		2530.4			
2012	6-Apr-12	0		931.4	0.228		2662.5			
2012	6-Apr-12	1		1195	0.219		2684.1			
2012	6-Apr-12	2		989.8	0.219		2505.9			
2012	6-Apr-12	3		651.6	0.259		2661.8			
2012	6-Apr-12	4		840.8	0.575		3182.5			
2012	6-Apr-12	5		958.7	0.821		3363.7			
2012	6-Apr-12	6		1065.5	0.86		3344.7			
2012	6-Apr-12	7		1302	0.877		3365.3			
2012	6-Apr-12	8		1388.6	0.804		3439.7			
2012	6-Apr-12	9		1070.2	0.643		3409.6			
2012	6-Apr-12	10		849.4	0.451		3368.1			
2012	6-Apr-12	11		797.1	0.241		3434.4			
2012	6-Apr-12	12		807.3	0.208		3527.2			
2012	6-Apr-12	13		1175.1	0.224		3589.1			
2012	6-Apr-12	14		1323.8	0.225		3572.3			
2012	6-Apr-12	15		1675.4	0.209		3601.7			
2012	6-Apr-12	16		1022.6	0.206		3619.3			
2012	6-Apr-12	17		912.3	0.206		3710.4			
2012	6-Apr-12	18		907.1	0.206		3761.3			
2012	6-Apr-12	19		660.1	0.208		3785.4			
2012	6-Apr-12	20		492.2	0.204		3761.8			
2012	6-Apr-12	21		461.7	0.211		3688.8			
2012	6-Apr-12	22		523.6	0.206		3632.5			
2012	6-Apr-12	23		489.9	0.207		3577.9			
2012	7-Apr-12	0		428.2	0.257		3494.2			
2012	7-Apr-12	1		561	0.208		3397.8			
2012	7-Apr-12	2		555.8	0.205		3390.2			
2012	7-Apr-12	3		402.5	0.205		3351.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	7-Apr-12	4		383.2	0.205		3276.4			
2012	7-Apr-12	5		816.3	0.205		3279.3			
2012	7-Apr-12	6		1273.2	0.208		3309.8			
2012	7-Apr-12	7		948.5	0.207		3177.6			
2012	7-Apr-12	8		455.7	0.224		3181.9			
2012	7-Apr-12	9		302.3	0.205		3149.5			
2012	7-Apr-12	10		360.1	0.205		3216.2			
2012	7-Apr-12	11		379.8	0.205		3286.1			
2012	7-Apr-12	12		446.9	0.216		3370.4			
2012	7-Apr-12	13		1036.2	0.206		3441.6			
2012	7-Apr-12	14		1075.7	0.206		3335.9			
2012	7-Apr-12	15		830.5	0.206		3151.8			
2012	7-Apr-12	16		332.2	0.206		2765			
2012	7-Apr-12	17		482.9	0.206		2483.6			
2012	7-Apr-12	18		654.1	0.206		2210			
2012	7-Apr-12	19		659	0.205		2245.4			
2012	7-Apr-12	20		660.6	0.205		2237.2			
2012	7-Apr-12	21		620.5	0.206		2097.4			
2012	7-Apr-12	22		613.7	0.205		1962.4			
2012	7-Apr-12	23		613	0.032		1698.8			
2012	8-Apr-12	0		293.5			1660.7			
2012	8-Apr-12	1		145.8			1683			
2012	8-Apr-12	2		70.1			1778.6			
2012	8-Apr-12	3		67.4			1683			
2012	8-Apr-12	4		138.3			1794.3			
2012	8-Apr-12	5		204.4			2074.9			
2012	8-Apr-12	6		242			2010.2			
2012	8-Apr-12	7		681.8			2439.1			
2012	8-Apr-12	8		1238.9			2827.7			
2012	8-Apr-12	9		1340.6			2933.5			
2012	8-Apr-12	10		1422			2937			
2012	8-Apr-12	11		1366.9			2913.5			
2012	8-Apr-12	12		1212.5			2928.5			
2012	8-Apr-12	13		1569.9			2912.9			
2012	8-Apr-12	14		1321.2			2926.1			
2012	8-Apr-12	15		1489.2			2906.7			
2012	8-Apr-12	16		1666.9			2930.4			
2012	8-Apr-12	17		972.5			2923.4			
2012	8-Apr-12	18		1037.2			2949.9			
2012	8-Apr-12	19		1124.5			2996.7			
2012	8-Apr-12	20		1174.5			2955.4			
2012	8-Apr-12	21		910.3			2821.8			
2012	8-Apr-12	22		525.6			2491.5			
2012	8-Apr-12	23		319.9			2186.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	9-Apr-12	0		436.2			2063			
2012	9-Apr-12	1		702.3			2130.9			
2012	9-Apr-12	2		546			2197.6			
2012	9-Apr-12	3		609.8			2395.1			
2012	9-Apr-12	4		990.4			2810.7			
2012	9-Apr-12	5		857			2969.2			
2012	9-Apr-12	6		1304.5			2964.4			
2012	9-Apr-12	7		1388.9			2946.5			
2012	9-Apr-12	8		1106.7			2939.2			
2012	9-Apr-12	9		470.5			2936.2			
2012	9-Apr-12	10		749.3			2943.2			
2012	9-Apr-12	11		1077.4			2971.4			
2012	9-Apr-12	12		1145.7			3016.4			
2012	9-Apr-12	13		961.4			3035.8			
2012	9-Apr-12	14		958.1			3033.2			
2012	9-Apr-12	15		1060			3002.3			
2012	9-Apr-12	16		1031.7			3011.1			
2012	9-Apr-12	17		1193.6			3025.6			
2012	9-Apr-12	18		1370.1			3032			
2012	9-Apr-12	19		1459.6			3026.6			
2012	9-Apr-12	20		1369.1			3039.9			
2012	9-Apr-12	21		1095.5			3067.5			
2012	9-Apr-12	22		886.9			2773.9			
2012	9-Apr-12	23		485.6			2543.8			
2012	10-Apr-12	0		242.7			2276.1			
2012	10-Apr-12	1		282			2033.8			
2012	10-Apr-12	2		239.7			1916.5			
2012	10-Apr-12	3		177.5			1897.4			
2012	10-Apr-12	4		311.1			2310.3			
2012	10-Apr-12	5		643.7			2782			
2012	10-Apr-12	6		1016.1			2996.4			
2012	10-Apr-12	7		1428.5			3000.5			
2012	10-Apr-12	8		1120.1			2973.1			
2012	10-Apr-12	9		507.2			2766.4			
2012	10-Apr-12	10		930.5			2786.7			
2012	10-Apr-12	11		1170.8			2752.9			
2012	10-Apr-12	12		1334			3147.7			
2012	10-Apr-12	13		1289.5			3170.9			
2012	10-Apr-12	14		1420.7			3012.3			
2012	10-Apr-12	15		1222.6			2841.8			
2012	10-Apr-12	16		1126.7			2690.6			
2012	10-Apr-12	17		530.4			2393			
2012	10-Apr-12	18		398.3			2459.2			
2012	10-Apr-12	19		485.7			2887.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-Apr-12	20		336.9			2973.9			
2012	10-Apr-12	21		635.2			3011			
2012	10-Apr-12	22		597.1			2682.5			
2012	10-Apr-12	23		473.9			2441.4			
2012	11-Apr-12	0		428.5			2228.5			
2012	11-Apr-12	1		975.4			2190.4			
2012	11-Apr-12	2		924.8			2283			
2012	11-Apr-12	3		687			2401.5			
2012	11-Apr-12	4		757.9			2958.5			
2012	11-Apr-12	5		1073.6			3278.6			
2012	11-Apr-12	6		1432.6			3297.1			
2012	11-Apr-12	7		1410			3351.3			
2012	11-Apr-12	8		1064.5			3363.9			
2012	11-Apr-12	9		1009.1			3309.7			
2012	11-Apr-12	10		948.1			3331.7			
2012	11-Apr-12	11		1036.8			3349.2			
2012	11-Apr-12	12		903.8			3327.1			
2012	11-Apr-12	13		895.6			3315.7			
2012	11-Apr-12	14		922.5			3284.2			
2012	11-Apr-12	15		946.1			3274.6			
2012	11-Apr-12	16		840.4			3284.8			
2012	11-Apr-12	17		704.1			3279.2			
2012	11-Apr-12	18		721.7			3263.5			
2012	11-Apr-12	19		541			3248.5			
2012	11-Apr-12	20		589			3253.9			
2012	11-Apr-12	21		664.5			3245			
2012	11-Apr-12	22		620.9			3249.5			
2012	11-Apr-12	23		489.3			2970.3			
2012	12-Apr-12	0		351.7			2653.4			
2012	12-Apr-12	1		331.1			2646.1			
2012	12-Apr-12	2		344.5			2654.7			
2012	12-Apr-12	3		417.3			2939.6			
2012	12-Apr-12	4		528.4			3258.8			
2012	12-Apr-12	5		631.8			3331.2			
2012	12-Apr-12	6		900			3360.7			
2012	12-Apr-12	7		660.6			3282			
2012	12-Apr-12	8		953.9			3311.5			
2012	12-Apr-12	9		1020.1			3233.5			
2012	12-Apr-12	10		904.8			3326.3			
2012	12-Apr-12	11		874.3			3356.9			
2012	12-Apr-12	12		667.9			3350.3			
2012	12-Apr-12	13		810.4			3347.6			
2012	12-Apr-12	14		1096.4			3248.8			
2012	12-Apr-12	15		934			3079.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	12-Apr-12	16		685.3			2854.9			
2012	12-Apr-12	17		587.4			3000.5			
2012	12-Apr-12	18		714.1			3328.5			
2012	12-Apr-12	19		860			3358.2			
2012	12-Apr-12	20		934.3			3402.5			
2012	12-Apr-12	21		732.1			3325.2			
2012	12-Apr-12	22		457			2885.9			
2012	12-Apr-12	23		206.7			2355.2			
2012	13-Apr-12	0		98.3			2145			
2012	13-Apr-12	1		197			2425.5			
2012	13-Apr-12	2		373.4	0.005		2852.2			
2012	13-Apr-12	3		691.8	0.033		2956.3			
2012	13-Apr-12	4		885	0.036		3316.9			
2012	13-Apr-12	5		1128.4	0.036		3362.8			
2012	13-Apr-12	6		1195.2	0.036		3350.6			
2012	13-Apr-12	7		1037.5	0.036		3265.2			
2012	13-Apr-12	8		875.1	0.036		3270.4			
2012	13-Apr-12	9		865.4	0.037		3203.6			
2012	13-Apr-12	10		679.8	0.037		3236.4			
2012	13-Apr-12	11		557.3	0.048		3101.8			
2012	13-Apr-12	12		531.3	0.052		2813			
2012	13-Apr-12	13		569.2	0.052		2630			
2012	13-Apr-12	14		485.5	0.052		2458.7			
2012	13-Apr-12	15		226.2	0.052		2264.4			
2012	13-Apr-12	16		328.3	0.052		2248.6			
2012	13-Apr-12	17		449.8	0.052		2166.3			
2012	13-Apr-12	18		428.7	0.052		2132.7			
2012	13-Apr-12	19		662.1	0.052		2243.7			
2012	13-Apr-12	20		527.8	0.052		2145.3			
2012	13-Apr-12	21		434.8	0.052		1613.7			
2012	13-Apr-12	22		428	0.052		681.996			
2012	13-Apr-12	23		457.5	0.057					
2012	14-Apr-12	0		420.2	0.065					
2012	14-Apr-12	1		528.2	0.065					
2012	14-Apr-12	2		589.6	0.056					
2012	14-Apr-12	3		413.6	0.052					
2012	14-Apr-12	4		275.2	0.052					
2012	14-Apr-12	5		440.4	0.052					
2012	14-Apr-12	6		391.4	0.052					
2012	14-Apr-12	7		940.3	0.06					
2012	14-Apr-12	8		327.5	0.065					
2012	14-Apr-12	9		286.8	0.065					
2012	14-Apr-12	10		432.3	0.045					
2012	14-Apr-12	11		471						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	14-Apr-12	12		422.5						
2012	14-Apr-12	13		424.7						
2012	14-Apr-12	14		443.9						
2012	14-Apr-12	15		260.3						
2012	14-Apr-12	16		226.9						
2012	14-Apr-12	17		124.1						
2012	14-Apr-12	18		114.1						
2012	14-Apr-12	19		152.7						
2012	14-Apr-12	20		151.2						
2012	14-Apr-12	21		242.2						
2012	14-Apr-12	22		381.5						
2012	14-Apr-12	23		375.4						
2012	15-Apr-12	0		237.7						
2012	15-Apr-12	1		203.9						
2012	15-Apr-12	2		265.6						
2012	15-Apr-12	3		381.6						
2012	15-Apr-12	4		369.5						
2012	15-Apr-12	5		366.9						
2012	15-Apr-12	6		411.1						
2012	15-Apr-12	7		507.4						
2012	15-Apr-12	8		439.7						
2012	15-Apr-12	9		372						
2012	15-Apr-12	10		497.4						
2012	15-Apr-12	11		484.8						
2012	15-Apr-12	12		754.9						
2012	15-Apr-12	13		1718.9						
2012	15-Apr-12	14		954.8						
2012	15-Apr-12	15		878.4						
2012	15-Apr-12	16		815.6						
2012	15-Apr-12	17		1046.1						
2012	15-Apr-12	18		831.7						
2012	15-Apr-12	19		1183					0	
2012	15-Apr-12	20		1183.8					0	
2012	15-Apr-12	21		699.6					0	
2012	15-Apr-12	22		394.5					0.7	
2012	15-Apr-12	23		374.6					12.5	5.415
2012	16-Apr-12	0		406.9					22.2	2
2012	16-Apr-12	1		436.6					29.1	2
2012	16-Apr-12	2		425.3					26.1	2.3
2012	16-Apr-12	3		316.4					21.9	2.5
2012	16-Apr-12	4		336.7					37.3	2.1
2012	16-Apr-12	5		424.1					33.3	2.1
2012	16-Apr-12	6		724.9					34.4	4.8
2012	16-Apr-12	7		855.9					36.7	2.2



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	16-Apr-12	8		969.9					42.1	2.2
2012	16-Apr-12	9		1523.1					35.8	2.2
2012	16-Apr-12	10		937.2					34	1.8
2012	16-Apr-12	11		1467.1					49.9	1.8
2012	16-Apr-12	12		1634.3					70.2	1.8
2012	16-Apr-12	13		1440.8					78.2	1.8
2012	16-Apr-12	14		1632.3					103.5	1.8
2012	16-Apr-12	15		1577					167.8	2.1
2012	16-Apr-12	16		1390.4					226.3	4.7
2012	16-Apr-12	17		1592.4					301.8	8.1
2012	16-Apr-12	18		1381					351.2	8.2
2012	16-Apr-12	19		1197					365.3	9.7
2012	16-Apr-12	20		1247.4					417.6	59.3
2012	16-Apr-12	21		1372.9					438.8	205.4
2012	16-Apr-12	22		978.4					477.6	386
2012	16-Apr-12	23		546.3					344.8	410
2012	17-Apr-12	0		292.3					301.2	399.3
2012	17-Apr-12	1		517.2					305.6	423.6
2012	17-Apr-12	2		215.1					307.2	405.8
2012	17-Apr-12	3		138.8					306.8	426.5
2012	17-Apr-12	4		151.8					305.1	430.2
2012	17-Apr-12	5		174.3					307.3	474
2012	17-Apr-12	6		216.6					335.8	432.6
2012	17-Apr-12	7		240.1					326.3	453.9
2012	17-Apr-12	8		240.6					317.3	499.1
2012	17-Apr-12	9		189.7					334.6	491.6
2012	17-Apr-12	10		292.2					329.8	450.4
2012	17-Apr-12	11		430.3					325.9	449.9
2012	17-Apr-12	12		662.4					325.4	435.2
2012	17-Apr-12	13		835.1					336.3	402.9
2012	17-Apr-12	14		498.5					463.7	411.3
2012	17-Apr-12	15		449.8					466	427.6
2012	17-Apr-12	16		448.1					470.3	416.1
2012	17-Apr-12	17		454.7					485.5	405.9
2012	17-Apr-12	18		383.5					494.5	395.4
2012	17-Apr-12	19		631.2					496.7	400
2012	17-Apr-12	20		439.8					478.3	396.6
2012	17-Apr-12	21		243.8					487.5	392.4
2012	17-Apr-12	22		206.1					474.4	391.3
2012	17-Apr-12	23		180.2					507.2	380.6
2012	18-Apr-12	0		158.5					485.5	386.7
2012	18-Apr-12	1		209.2					466.4	391.5
2012	18-Apr-12	2		125.5					499	392.5
2012	18-Apr-12	3		104.9					499.9	393.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	18-Apr-12	4		152.3					493.4	392
2012	18-Apr-12	5		167.4					482.5	410.6
2012	18-Apr-12	6		152.4					466	395.3
2012	18-Apr-12	7		199.5					470.6	388.6
2012	18-Apr-12	8		194.8					481.2	398.9
2012	18-Apr-12	9		122.8					481.4	467.2
2012	18-Apr-12	10		262.3					495.3	444.6
2012	18-Apr-12	11		197.8					483.1	444.1
2012	18-Apr-12	12		170.1					477.5	421.3
2012	18-Apr-12	13		154.1					474.3	428
2012	18-Apr-12	14		127.4					472.4	429.2
2012	18-Apr-12	15		59.9					471.9	418.1
2012	18-Apr-12	16		61.1					472.7	434.8
2012	18-Apr-12	17		70.9					468.5	431.3
2012	18-Apr-12	18		151.1					468.8	435
2012	18-Apr-12	19		518.7					463.9	445.2
2012	18-Apr-12	20		531.6					469.4	439.6
2012	18-Apr-12	21		332.5					482.4	437
2012	18-Apr-12	22		212.5					481	438.4
2012	18-Apr-12	23		184.2					483.9	496.3
2012	19-Apr-12	0		146.8					409.7	450.1
2012	19-Apr-12	1		245.8					327.4	367.5
2012	19-Apr-12	2		193.2					362.4	342.2
2012	19-Apr-12	3		228.2					205	385.4
2012	19-Apr-12	4		387.8					195.6	398
2012	19-Apr-12	5		504.4					155.6	391.4
2012	19-Apr-12	6	0	764.5					38.4	402
2012	19-Apr-12	7	0	1161.5					4.806	154.2
2012	19-Apr-12	8	0	1579.3						8.964
2012	19-Apr-12	9	16.5	1576.2						
2012	19-Apr-12	10	1.8	1569.5						
2012	19-Apr-12	11	0.9	1612.5						
2012	19-Apr-12	12	0	1661.9						
2012	19-Apr-12	13	0	828.3						
2012	19-Apr-12	14	0	645.8						
2012	19-Apr-12	15	0	637.9						
2012	19-Apr-12	16	0	651.3						
2012	19-Apr-12	17	0	499.6						
2012	19-Apr-12	18	0	339.8						
2012	19-Apr-12	19	0	427.2						
2012	19-Apr-12	20	1.1	644.9						
2012	19-Apr-12	21	0	504.5						
2012	19-Apr-12	22	0	335.8						
2012	19-Apr-12	23	0	148.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	20-Apr-12	0	1	170						
2012	20-Apr-12	1	0	256.4						
2012	20-Apr-12	2	0	268.9						
2012	20-Apr-12	3	0	222.9						
2012	20-Apr-12	4	0	223.7						
2012	20-Apr-12	5	0	256						
2012	20-Apr-12	6	0	320.6						
2012	20-Apr-12	7	1.2	352.6						
2012	20-Apr-12	8	5	407.2						
2012	20-Apr-12	9	10.4	599.9						
2012	20-Apr-12	10	5.4	1060						
2012	20-Apr-12	11	4	986.5						
2012	20-Apr-12	12	5.3	655						
2012	20-Apr-12	13	4	609						
2012	20-Apr-12	14	2.7	711						
2012	20-Apr-12	15	2.7	883						
2012	20-Apr-12	16	5.4	947.9						
2012	20-Apr-12	17	4	717.5						
2012	20-Apr-12	18	4.2	247.3						
2012	20-Apr-12	19	7.8	423.2						
2012	20-Apr-12	20	14.2	482.9						
2012	20-Apr-12	21	11	263.4						
2012	20-Apr-12	22	9.5	382						
2012	20-Apr-12	23	4.7	415.2						
2012	21-Apr-12	0	9.4	282.9						
2012	21-Apr-12	1	7.9	279.2						
2012	21-Apr-12	2	7.9	301.5						
2012	21-Apr-12	3	7.9	268						
2012	21-Apr-12	4	14.1	305.9						
2012	21-Apr-12	5	11	361.8						
2012	21-Apr-12	6	11.3	406						
2012	21-Apr-12	7	12.6	575.8						
2012	21-Apr-12	8	43.1	950.7					2.993	
2012	21-Apr-12	9	93.3	487.8					4.1	
2012	21-Apr-12	10	135.1	530.3					4.3	
2012	21-Apr-12	11	200.4	778.3					0	
2012	21-Apr-12	12	460.7	667.5					0	
2012	21-Apr-12	13	446.8	786.3						
2012	21-Apr-12	14	506.8	803.1						
2012	21-Apr-12	15	559.8	558.5						
2012	21-Apr-12	16	610.4	455.9						
2012	21-Apr-12	17	368.5	326.4						
2012	21-Apr-12	18	300.4	295.9						
2012	21-Apr-12	19	181.7	420.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-Apr-12	20	126.5	247.5						
2012	21-Apr-12	21	78.3	221.3						
2012	21-Apr-12	22	194.7	199.7						
2012	21-Apr-12	23	225.5	282						
2012	22-Apr-12	0	219.3	400.7						
2012	22-Apr-12	1	182.4	536.8						
2012	22-Apr-12	2	185.6	422.1						
2012	22-Apr-12	3	193.9	298						
2012	22-Apr-12	4	225.4	240.9						
2012	22-Apr-12	5	195.5	268.5						
2012	22-Apr-12	6	199.7	314.9						
2012	22-Apr-12	7	203.4	292.8						
2012	22-Apr-12	8	236.3	401.7						
2012	22-Apr-12	9	185.9	338.5						
2012	22-Apr-12	10	118.7	350.1						
2012	22-Apr-12	11	149.5	372.7						
2012	22-Apr-12	12	277.6	297.8						
2012	22-Apr-12	13	139.4	470.7						
2012	22-Apr-12	14	158.2	358.2						
2012	22-Apr-12	15	177.5	298.7						
2012	22-Apr-12	16	211.5	358.1						
2012	22-Apr-12	17	194.8	372.2						
2012	22-Apr-12	18	201.8	513.5						
2012	22-Apr-12	19	204.8	882.6						
2012	22-Apr-12	20	233.7	1078.6						
2012	22-Apr-12	21	210.4	805.8						
2012	22-Apr-12	22	218.2	594						
2012	22-Apr-12	23	237.6	391						
2012	23-Apr-12	0	271.5	302.2						
2012	23-Apr-12	1	259.6	277.7						
2012	23-Apr-12	2	255.1	209						
2012	23-Apr-12	3	237.2	223.1						
2012	23-Apr-12	4	253.5	203.3						
2012	23-Apr-12	5	277.5	212.4						
2012	23-Apr-12	6	388.3	241.9						
2012	23-Apr-12	7	375.3	532.9						
2012	23-Apr-12	8	326.8	853.8						
2012	23-Apr-12	9	233.3	708.8						
2012	23-Apr-12	10	246.8	809						
2012	23-Apr-12	11	379.4	745.7						
2012	23-Apr-12	12	452.8	1062.8						
2012	23-Apr-12	13	417.8	1614.1						
2012	23-Apr-12	14	439.7	734.3						
2012	23-Apr-12	15	496.1	465.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	23-Apr-12	16	548.6	449.5						
2012	23-Apr-12	17	513.9	415.8						
2012	23-Apr-12	18	463	401						
2012	23-Apr-12	19	502.8	553.1						
2012	23-Apr-12	20	554.2	399.3						
2012	23-Apr-12	21	530.9	425.5						
2012	23-Apr-12	22	440.5	370.6						
2012	23-Apr-12	23	316.9	209.7						
2012	24-Apr-12	0	261.8	129.4						
2012	24-Apr-12	1	205.4	127.9						
2012	24-Apr-12	2	183.1	103.5						
2012	24-Apr-12	3	224.3	87.6						
2012	24-Apr-12	4	351.1	249.9						
2012	24-Apr-12	5	501.2	488.4						
2012	24-Apr-12	6	568.4	700.2						
2012	24-Apr-12	7	536.7	700.5						
2012	24-Apr-12	8	505	869.6						
2012	24-Apr-12	9	369.7	1024.2						
2012	24-Apr-12	10	279.7	977.8						
2012	24-Apr-12	11	349.6	852.7						
2012	24-Apr-12	12	410.3	763.7						
2012	24-Apr-12	13	353.4	691						
2012	24-Apr-12	14	271.3	360.9						
2012	24-Apr-12	15	200.5	285.8						
2012	24-Apr-12	16	213	284						
2012	24-Apr-12	17	163.2	261.9						
2012	24-Apr-12	18	150.2	267.6						
2012	24-Apr-12	19	210.7	352.8						
2012	24-Apr-12	20	299.9	440						
2012	24-Apr-12	21	224.2	399.7						
2012	24-Apr-12	22	225.3	391.5						
2012	24-Apr-12	23	215.3	364.6						
2012	25-Apr-12	0	249.7	264.3						
2012	25-Apr-12	1	237.7	186.9						
2012	25-Apr-12	2	241	137.1						
2012	25-Apr-12	3	337.8	177.2						
2012	25-Apr-12	4	542.2	354.8						
2012	25-Apr-12	5	693.6	419.1						
2012	25-Apr-12	6	757.5	617.4						
2012	25-Apr-12	7	764	877.3						
2012	25-Apr-12	8	853.8	808.6						
2012	25-Apr-12	9	607.7	611						
2012	25-Apr-12	10	551.8	613.2						
2012	25-Apr-12	11	558.5	580.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	25-Apr-12	12	583.6	790.7						
2012	25-Apr-12	13	519	700.3						
2012	25-Apr-12	14	452.4	646.8						
2012	25-Apr-12	15	420.8	673.7						
2012	25-Apr-12	16	489.3	697.2						
2012	25-Apr-12	17	444.1	490.9						
2012	25-Apr-12	18	417.9	261.4						
2012	25-Apr-12	19	404.2	445.1						
2012	25-Apr-12	20	426.8	479.8						
2012	25-Apr-12	21	379.1	294						
2012	25-Apr-12	22	394.8	177.1						
2012	25-Apr-12	23	432.6	141.5						
2012	26-Apr-12	0	498.6	261.6						
2012	26-Apr-12	1	352.6	420						
2012	26-Apr-12	2	283.5	368.7						
2012	26-Apr-12	3	248.2	351.9						
2012	26-Apr-12	4	404.3	463						
2012	26-Apr-12	5	590.9	777.9						
2012	26-Apr-12	6	747.4	1126.6						
2012	26-Apr-12	7	808.3	1061.9						
2012	26-Apr-12	8	940.8	1203.9						
2012	26-Apr-12	9	854.3	1070.6						
2012	26-Apr-12	10	783.7	686.1						
2012	26-Apr-12	11	865.9	753.3						
2012	26-Apr-12	12	900.5	763.6						
2012	26-Apr-12	13	789.3	858.3						
2012	26-Apr-12	14	730.2	1112.8						
2012	26-Apr-12	15	796.5	1229.4						
2012	26-Apr-12	16	828.5	814.9						
2012	26-Apr-12	17	737.6	732.7						
2012	26-Apr-12	18	641.9	510.8						
2012	26-Apr-12	19	623.9	361.3						
2012	26-Apr-12	20	677.6	407						
2012	26-Apr-12	21	677.4	410.3						
2012	26-Apr-12	22	649.4	281						
2012	26-Apr-12	23	548.7	227						
2012	27-Apr-12	0	427.4	135.2						
2012	27-Apr-12	1	345.2	89.1						
2012	27-Apr-12	2	288.4	72.4						
2012	27-Apr-12	3	395.5	80.4						
2012	27-Apr-12	4	665.2	205.7						
2012	27-Apr-12	5	769.5	315.1						
2012	27-Apr-12	6	834.8	365.1						
2012	27-Apr-12	7	784.4	365.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	27-Apr-12	8	787.3	295.2						
2012	27-Apr-12	9	605.1	253.8						
2012	27-Apr-12	10	586.7	259.7						
2012	27-Apr-12	11	676.1	236.3						
2012	27-Apr-12	12	712.8	261						
2012	27-Apr-12	13	667.2	242						
2012	27-Apr-12	14	640.1	235.6						
2012	27-Apr-12	15	632.3	277.4						
2012	27-Apr-12	16	598.5	259						
2012	27-Apr-12	17	470.5	158.3						
2012	27-Apr-12	18	461.3	164.9						
2012	27-Apr-12	19	485	521.2						
2012	27-Apr-12	20	524.5	607.7						
2012	27-Apr-12	21	475.4	390.1						
2012	27-Apr-12	22	371.9	198.8						
2012	27-Apr-12	23	309.1	79.1						
2012	28-Apr-12	0	305.7	28.47						
2012	28-Apr-12	1	279.6							
2012	28-Apr-12	2	264							
2012	28-Apr-12	3	322.2							
2012	28-Apr-12	4	378.2							
2012	28-Apr-12	5	428.9							
2012	28-Apr-12	6	381.4							
2012	28-Apr-12	7	560.3							
2012	28-Apr-12	8	852.4							
2012	28-Apr-12	9	801.3							
2012	28-Apr-12	10	733.4							
2012	28-Apr-12	11	834							
2012	28-Apr-12	12	916.6							
2012	28-Apr-12	13	892.7							
2012	28-Apr-12	14	897.8							
2012	28-Apr-12	15	911.2							
2012	28-Apr-12	16	966							
2012	28-Apr-12	17	948.4							
2012	28-Apr-12	18	942.6							
2012	28-Apr-12	19	880.4							
2012	28-Apr-12	20	1020.3							
2012	28-Apr-12	21	1001.8			0				
2012	28-Apr-12	22	981.4			0				
2012	28-Apr-12	23	764			0				
2012	29-Apr-12	0	478.8			0				
2012	29-Apr-12	1	229.9			0				
2012	29-Apr-12	2	62			0				
2012	29-Apr-12	3	31.2			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	29-Apr-12	4	31.8			0				
2012	29-Apr-12	5	18.4			0				
2012	29-Apr-12	6	16.4			0				
2012	29-Apr-12	7	15.5			0				
2012	29-Apr-12	8	19.8			0				
2012	29-Apr-12	9	17.2			28.8				
2012	29-Apr-12	10	8.7			684.6				
2012	29-Apr-12	11	6.9			1377.2				0.704
2012	29-Apr-12	12	21.8			1451.7				4.56
2012	29-Apr-12	13	7.8			1517.7			4.488	
2012	29-Apr-12	14	15.3			1445.2			4.4	1.44
2012	29-Apr-12	15	52.2			1248.7			38.9	2
2012	29-Apr-12	16	161.1			1101.9			68	4.9
2012	29-Apr-12	17	208			509.6			66.2	1.9
2012	29-Apr-12	18	287.5			525			52	1.4
2012	29-Apr-12	19	598.7			463.2			48.5	1.6
2012	29-Apr-12	20	850.4			527.5			49.5	1.7
2012	29-Apr-12	21	1145.9			440			49.2	1.8
2012	29-Apr-12	22	1470.5			450.9			49.6	1.8
2012	29-Apr-12	23	1103.9			453			49.3	1.8
2012	30-Apr-12	0	722.4			432			49.3	1.8
2012	30-Apr-12	1	366			414.7			53	1.8
2012	30-Apr-12	2	301.9			412.7			60.2	1.8
2012	30-Apr-12	3	321.1			449			66.1	8.5
2012	30-Apr-12	4	547.5			436.2			87.4	88.1
2012	30-Apr-12	5	1063.1			558.4			79.2	116.8
2012	30-Apr-12	6	1481.9			455.3			96.3	196.7
2012	30-Apr-12	7	1011.2			1370			143.5	394.9
2012	30-Apr-12	8	1023.1			1235.9			190.9	493.2
2012	30-Apr-12	9	898.6			45.45			242.9	738.5
2012	30-Apr-12	10	773.8						273.3	691.3
2012	30-Apr-12	11	865.8						261.2	682
2012	30-Apr-12	12	818.7						266.9	583.1
2012	30-Apr-12	13	911.2						340.8	541.1
2012	30-Apr-12	14	939.7						449.6	540.2
2012	30-Apr-12	15	908.4						475.4	503.3
2012	30-Apr-12	16	801.2						475.2	471.1
2012	30-Apr-12	17	679.7						500.6	611.6
2012	30-Apr-12	18	625						593.6	742.5
2012	30-Apr-12	19	849.2						585.1	741.2
2012	30-Apr-12	20	786.7						543.3	721.9
2012	30-Apr-12	21	490.4						577.7	760
2012	30-Apr-12	22	280.3						477.9	644.7
2012	30-Apr-12	23	160.7						424.7	441.7



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	1-May-12	0	127.4						492.9	433.4
2012	1-May-12	1	91.8						487.2	432
2012	1-May-12	2	77.5						489.4	435.9
2012	1-May-12	3	74.8						487.8	434.6
2012	1-May-12	4	78.1						485.9	430.9
2012	1-May-12	5	94.6						484.1	428.6
2012	1-May-12	6	185.8						305.6	427.1
2012	1-May-12	7	291.1						435.8	423.6
2012	1-May-12	8	372.6						525.8	426.4
2012	1-May-12	9	321						396.9	414.8
2012	1-May-12	10	250.4						326.1	429.1
2012	1-May-12	11	301.3						320.8	458.3
2012	1-May-12	12	368						322.2	438.7
2012	1-May-12	13	398.5						333.6	443.6
2012	1-May-12	14	337.9						316.4	441.1
2012	1-May-12	15	388.7						302.1	441.8
2012	1-May-12	16	466.4						299.6	441.9
2012	1-May-12	17	471.8						297.5	438.9
2012	1-May-12	18	492.3						286.1	422.8
2012	1-May-12	19	522.2						272	409.5
2012	1-May-12	20	542.4						293.2	419.6
2012	1-May-12	21	487.2			0			424.3	405.5
2012	1-May-12	22	529.4			0			504.8	390.9
2012	1-May-12	23	989.5			0			651.7	144
2012	2-May-12	0	875.3			0			672.6	
2012	2-May-12	1	712.7			0			588.3	
2012	2-May-12	2	617			0			449.8	
2012	2-May-12	3	514.6			34.9			428.4	
2012	2-May-12	4	577.6			379.5			521.3	
2012	2-May-12	5	854			519.2			460.3	
2012	2-May-12	6	1371.6			540.4			347.605	
2012	2-May-12	7	583.7			641.1			7.308	
2012	2-May-12	8	533			929.7			7.488	
2012	2-May-12	9	472.4			1020.1				
2012	2-May-12	10	598.3			1502.7				
2012	2-May-12	11	656.2			1348.3				
2012	2-May-12	12	909.1			1881.3				
2012	2-May-12	13	958			1976.8				
2012	2-May-12	14	892.4			1937				
2012	2-May-12	15	781			1953.8				
2012	2-May-12	16	840.8			2041.7				
2012	2-May-12	17	923.9			1986.8				
2012	2-May-12	18	737.6			1527.5				
2012	2-May-12	19	802.5			1242.7				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	2-May-12	20	1043.4			1265.3				
2012	2-May-12	21	471.1			687.3				
2012	2-May-12	22	282.6			451.6				
2012	2-May-12	23	258.7		0.031	458				
2012	3-May-12	0	247.1		0.065	463.3				
2012	3-May-12	1	240.8		0.064	464.3				
2012	3-May-12	2	235.1		0.068	462.4				
2012	3-May-12	3	267.9		0.076	459.3				
2012	3-May-12	4	336.4		0.058	459.8				
2012	3-May-12	5	344.8		0.053	461				
2012	3-May-12	6	310.6		0.06	455.8				
2012	3-May-12	7	324.6		0.062	450.1				
2012	3-May-12	8	472.5		0.117	453.1				
2012	3-May-12	9	1359.5		0.252	463.9				
2012	3-May-12	10	547.7		0.297	477.4				
2012	3-May-12	11	360		0.348	666.5				
2012	3-May-12	12	702.2		0.357	743.9				
2012	3-May-12	13	541.2		0.345	514.2				
2012	3-May-12	14	245.2		0.453	678.1				
2012	3-May-12	15	467.1		0.73	1331.7				
2012	3-May-12	16	944		0.768	1357.8				
2012	3-May-12	17	1189.8		0.843	1596.6				
2012	3-May-12	18	1266.7		0.581	1691.6				
2012	3-May-12	19	1464.7		0.692	1827.4				
2012	3-May-12	20	1883.8		0.832	2069.3				
2012	3-May-12	21	1114.4		0.58	1645				
2012	3-May-12	22	503.9		0.088	1272.6				
2012	3-May-12	23	388.7			1158.3				
2012	4-May-12	0	428.6			609.2				
2012	4-May-12	1	435.4			425.8				
2012	4-May-12	2	412.9			431.6				
2012	4-May-12	3	380		0.034	428				
2012	4-May-12	4	393.8		0.042	431.6				
2012	4-May-12	5	381.6		0.044	434.3				
2012	4-May-12	6	390.4		0.069	435				
2012	4-May-12	7	419.2		0.201	428.7				
2012	4-May-12	8	471.1		0.221	439				
2012	4-May-12	9	370.2		0.215	437.9				
2012	4-May-12	10	316.1		0.214	545.2				
2012	4-May-12	11	403.8		0.245	1012.8				
2012	4-May-12	12	511.4		0.209	745.9				
2012	4-May-12	13	680.4		0.205	1197.3				
2012	4-May-12	14	708.8		0.204	948.9				
2012	4-May-12	15	924.2		0.309	695				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-May-12	16	638.3		0.216	472.4				
2012	4-May-12	17	604.7		0.214	468				
2012	4-May-12	18	583.6		0.216	468.6				
2012	4-May-12	19	602.8		0.253	472.5				
2012	4-May-12	20	605.9		0.246	473.3				
2012	4-May-12	21	503.5		0.082	476.7				
2012	4-May-12	22	351.2			473.1				
2012	4-May-12	23	184			464.7				
2012	5-May-12	0	164			459.4				
2012	5-May-12	1	141.2			453.2				
2012	5-May-12	2	142.1			444.3				
2012	5-May-12	3	128.4			443.9				
2012	5-May-12	4	208.3			447.3				
2012	5-May-12	5	696.2			447.2				
2012	5-May-12	6	696.6			449.6				
2012	5-May-12	7	724.9			554.1				
2012	5-May-12	8	585			1378.7				
2012	5-May-12	9	499.7			1724				
2012	5-May-12	10	722.1			2115.2				
2012	5-May-12	11	992.9			2244.9				
2012	5-May-12	12	1143			2200.6				
2012	5-May-12	13	1178.4			2150.4				
2012	5-May-12	14	1134.8			2247.1				
2012	5-May-12	15	1094			2131.1				
2012	5-May-12	16	969			1896.6				
2012	5-May-12	17	778.9			1839.9				
2012	5-May-12	18	629.2			1562.7				
2012	5-May-12	19	541.2			1274.6				
2012	5-May-12	20	444.9			524.9				
2012	5-May-12	21	335.8			496.2				
2012	5-May-12	22	256.3			459				
2012	5-May-12	23	198.2	0		112.565				
2012	6-May-12	0	328.6	0						
2012	6-May-12	1	409.3	0						
2012	6-May-12	2	407.1	0						
2012	6-May-12	3	393.1	0.9						
2012	6-May-12	4	421.1	0						
2012	6-May-12	5	404.5	0						
2012	6-May-12	6	405	0						
2012	6-May-12	7	413.4	0.8						
2012	6-May-12	8	422.8	0						
2012	6-May-12	9	357.2	0						
2012	6-May-12	10	430.7	0						
2012	6-May-12	11	764.3	0						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	6-May-12	12	1793	0						
2012	6-May-12	13	1157.6	7.4						
2012	6-May-12	14	1049.5	0						
2012	6-May-12	15	1383	0						
2012	6-May-12	16	1367.3	0						
2012	6-May-12	17	1234.4	0						
2012	6-May-12	18	1281.3	0						
2012	6-May-12	19	1304.5	0						
2012	6-May-12	20	1484.2	0						
2012	6-May-12	21	1425	0						
2012	6-May-12	22	1317.6	0						
2012	6-May-12	23	999.5	0						
2012	7-May-12	0	687.2	0						
2012	7-May-12	1	401.7	0						
2012	7-May-12	2	278.3	0						
2012	7-May-12	3	160.2	0						
2012	7-May-12	4	148.7	0						
2012	7-May-12	5	166	0						
2012	7-May-12	6	283.3	0						
2012	7-May-12	7	663.3	4.2						
2012	7-May-12	8	1339.6	2.5						
2012	7-May-12	9	1491.2	7.6						
2012	7-May-12	10	1046.7	24.3						
2012	7-May-12	11	1271.9	81.3						
2012	7-May-12	12	1427.1	118.8						
2012	7-May-12	13	1206.9	268.1						
2012	7-May-12	14	1047.4	496.9						
2012	7-May-12	15	1129.9	653.8						
2012	7-May-12	16	1237.5	809.4						
2012	7-May-12	17	1365.5	1454.7						
2012	7-May-12	18	1506	2141						
2012	7-May-12	19	1598.4	1056.8						
2012	7-May-12	20	1467	624.5						
2012	7-May-12	21	1324.8	583.9						
2012	7-May-12	22	1019.2	611.6						
2012	7-May-12	23	642	315.5						
2012	8-May-12	0	405	136.4						
2012	8-May-12	1	351.8	113.9						
2012	8-May-12	2	236.2	83.3						
2012	8-May-12	3	189.1	89.1						
2012	8-May-12	4	183.8	49.2						
2012	8-May-12	5	177.2	60.7						
2012	8-May-12	6	179.5	56.9						
2012	8-May-12	7	186.5	75.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-May-12	8	307.6	48.4						
2012	8-May-12	9	420	157.9						
2012	8-May-12	10	561.9	298.1						
2012	8-May-12	11	585.6	347.6						
2012	8-May-12	12	662.3	341.4						
2012	8-May-12	13	845	423.3						
2012	8-May-12	14	850.3	583.9						
2012	8-May-12	15	1138.5	672.3						
2012	8-May-12	16	919.4	638.8						
2012	8-May-12	17	871.4	584.5						
2012	8-May-12	18	758.9	495.1						
2012	8-May-12	19	910.9	598.1					0	
2012	8-May-12	20	1135.7	776.5					12.3	
2012	8-May-12	21	471.3	707.3					37	
2012	8-May-12	22	161.1	605.3					59.1	
2012	8-May-12	23	150.6	371.5					64	
2012	9-May-12	0	169.1	208.1					58.1	
2012	9-May-12	1	153.2	146.3					60.5	
2012	9-May-12	2	154	91.8					63.9	
2012	9-May-12	3	132.8	89.9					62.8	
2012	9-May-12	4	145.6	56.2					59.7	
2012	9-May-12	5	227.6	98.9					61.7	
2012	9-May-12	6	401.1	233					68.1	
2012	9-May-12	7	693.8	329.2					63.5	
2012	9-May-12	8	650.6	459.6					58.2	
2012	9-May-12	9	598.8	691.7					55.1	
2012	9-May-12	10	564.1	913.3					54.9	
2012	9-May-12	11	530.8	903.5					54.9	
2012	9-May-12	12	579.4	961.9					60.9	
2012	9-May-12	13	535.7	1018.3					60.8	
2012	9-May-12	14	468.9	951					60.3	
2012	9-May-12	15	471.6	954.8					98.1	
2012	9-May-12	16	487.8	775.6					139.5	
2012	9-May-12	17	536.3	636.7					180.9	
2012	9-May-12	18	502.1	666					288.3	
2012	9-May-12	19	508.3	588					350.1	
2012	9-May-12	20	1043.3	543.8					483	
2012	9-May-12	21	1058.9	315.4					594.5	
2012	9-May-12	22	464	268.8					696.6	
2012	9-May-12	23	383.7	189.1					705.8	
2012	10-May-12	0	68.172	178.5					709.5	
2012	10-May-12	1		141.5					707.4	
2012	10-May-12	2		85.7					716.4	
2012	10-May-12	3		148.4					634	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-May-12	4		250.2					494.2	
2012	10-May-12	5		620					548.3	
2012	10-May-12	6		1387.3					570.4	
2012	10-May-12	7		1525.5					567.8	
2012	10-May-12	8		1692.2					565.7	
2012	10-May-12	9		1547.2					565	
2012	10-May-12	10		1271.6					565.6	
2012	10-May-12	11		948.1					552.7	
2012	10-May-12	12		1066.9					554	
2012	10-May-12	13		909.5					560.2	
2012	10-May-12	14		971.2					626	
2012	10-May-12	15		1190.6					732.4	
2012	10-May-12	16		2107.7					712.2	
2012	10-May-12	17		1640.2					700.9	
2012	10-May-12	18		618.9					423.088	
2012	10-May-12	19		532.4					24.273	
2012	10-May-12	20		653.7					41.7	
2012	10-May-12	21		399.7					97.6	
2012	10-May-12	22		287.5					185.8	
2012	10-May-12	23		103					192.4	
2012	11-May-12	0		93.1					195.4	
2012	11-May-12	1		80.6					297.9	
2012	11-May-12	2		53.3					372.9	
2012	11-May-12	3		56.7					409.6	
2012	11-May-12	4		48.7					476.8	
2012	11-May-12	5		191.9					488.5	
2012	11-May-12	6		331					527.4	
2012	11-May-12	7		494.2					556.8	
2012	11-May-12	8		620.6					534	
2012	11-May-12	9	0.873	811					518.5	
2012	11-May-12	10	0.9	948.1					517.8	
2012	11-May-12	11	0.9	802.3					514.6	
2012	11-May-12	12	0.9	865.2					507	
2012	11-May-12	13	0.9	930.9					520.3	
2012	11-May-12	14	4.7	976.1					546.3	
2012	11-May-12	15	5.7	1010.6					599.7	
2012	11-May-12	16	2.8	1057.9					609.7	
2012	11-May-12	17	3.4	1049.6					620	
2012	11-May-12	18	3.5	1116.6					659.3	
2012	11-May-12	19	3.5	994.9					714	
2012	11-May-12	20	7.5	1028.9					710.5	
2012	11-May-12	21	9.6	1055.8					706.4	
2012	11-May-12	22	10.1	1092.5					694.4	
2012	11-May-12	23	20.3	1167					709.7	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	12-May-12	0	46.6	1334.4					691.8	
2012	12-May-12	1	100	1220.5					684	
2012	12-May-12	2	196.4	1117.1					688.4	
2012	12-May-12	3	314.7	1150					562.4	
2012	12-May-12	4	511.9	1091					480.3	
2012	12-May-12	5	797.8	1080.3					521.5	
2012	12-May-12	6	1030.8	1256.1					532	
2012	12-May-12	7	490.5	956.6					497.3	
2012	12-May-12	8	573.3	1142.3					489.8	
2012	12-May-12	9	750.9	1457					488.5	
2012	12-May-12	10	1071.2	1644.5					531.1	
2012	12-May-12	11	1432.9	1473.3					563.6	
2012	12-May-12	12	1398.6	1248.9					519.1	
2012	12-May-12	13	1594	949.9					563.1	
2012	12-May-12	14	1987.1	1254.3					613.4	
2012	12-May-12	15	1246.6	1523.4					632.7	
2012	12-May-12	16	1254.8	1686.5					653.8	
2012	12-May-12	17	1354.4	1186.9					643.6	
2012	12-May-12	18	1323.7	795.8					687.9	
2012	12-May-12	19	1083.5	667.6					728.4	
2012	12-May-12	20	966.1	592.2					758	
2012	12-May-12	21	818.1	459.5					634.9	
2012	12-May-12	22	743.7	360.2					627.3	
2012	12-May-12	23	724.3	377.8					622.5	
2012	13-May-12	0	846.6	440.1					602.9	
2012	13-May-12	1	1196.7	641.2					595.1	
2012	13-May-12	2	1085.9	631.2					518.6	
2012	13-May-12	3	769.4	466.9					487	
2012	13-May-12	4	660.6	382.8					491	
2012	13-May-12	5	682.9	330.5					478.4	
2012	13-May-12	6	607.5	331.7					470.1	
2012	13-May-12	7	836.4	326.7					475.3	
2012	13-May-12	8	887.8	626.4					352.2	
2012	13-May-12	9	947	1367.2					119.866	
2012	13-May-12	10	870	1307.9						
2012	13-May-12	11	1018.2	1296						
2012	13-May-12	12	1076.9	1463.3						
2012	13-May-12	13	1271.2	1234.1						
2012	13-May-12	14	1269.5	1450.6						
2012	13-May-12	15	1297.4	1487.4						
2012	13-May-12	16	1180.8	1602.9						
2012	13-May-12	17	996.2	1192.2						
2012	13-May-12	18	731.8	1039.3						
2012	13-May-12	19	674.1	760.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	13-May-12	20	575.6	919.8						
2012	13-May-12	21	647.4	902.3						
2012	13-May-12	22	566.7	995.1						
2012	13-May-12	23	354.2	624.4						
2012	14-May-12	0	218.7	449.5						
2012	14-May-12	1	180.1	276.4						
2012	14-May-12	2	216.8	515.4						
2012	14-May-12	3	270.2	756.4						
2012	14-May-12	4	330.5	703.9						
2012	14-May-12	5	861.2	754.3						
2012	14-May-12	6	1741.4	1227.6						
2012	14-May-12	7	1141.3	967.1						
2012	14-May-12	8	814.4	957.3						
2012	14-May-12	9	728.6	820.4						
2012	14-May-12	10	717.3	1041.7						
2012	14-May-12	11	667.2	1018.5						
2012	14-May-12	12	771.2	1022.4						
2012	14-May-12	13	812.7	910.6						
2012	14-May-12	14	840.6	1081.8						
2012	14-May-12	15	766.3	1052.2						
2012	14-May-12	16	849.1	1087.6						
2012	14-May-12	17	896.8	1144.2						
2012	14-May-12	18	1095.9	1403.3						
2012	14-May-12	19	940.4	1331.1						
2012	14-May-12	20	774.4	1288.8						
2012	14-May-12	21	695.1	825.9						
2012	14-May-12	22	757	979.8						
2012	14-May-12	23	577.1	641.4						
2012	15-May-12	0	869	461.1					13.7	
2012	15-May-12	1	475.9	573.5					23.9	
2012	15-May-12	2	326.7	735.8					69.5	
2012	15-May-12	3	257.7	543.6					85	
2012	15-May-12	4	457.2	829.7					70.9	
2012	15-May-12	5	923.3	1095.3					75	
2012	15-May-12	6	1545.7	1034.5					73.6	
2012	15-May-12	7	1047	829					66.7	
2012	15-May-12	8	751.5	772					69.9	
2012	15-May-12	9	785	963.3					83.8	
2012	15-May-12	10	850.2	1251.9					114.8	
2012	15-May-12	11	869.3	1114.5					108.4	
2012	15-May-12	12	874.5	1119.2					127.7	
2012	15-May-12	13	1127.7	1192					158.8	
2012	15-May-12	14	1251.1	1354.3					218.9	
2012	15-May-12	15	953	1352.5					364.9	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-May-12	16	1267.4	1235.2					466.6	
2012	15-May-12	17	1343.4	1379.6		0			509.1	
2012	15-May-12	18	1196.8	1107.8		0			620.7	
2012	15-May-12	19	941.1	633.7		0			686.5	
2012	15-May-12	20	775.2	528	0.048	0			759.6	
2012	15-May-12	21	777.3	458.5	0.065	0			789.1	
2012	15-May-12	22	981.6	463.7	0.064	0			822.7	
2012	15-May-12	23	794.1	621.9	0.069	0			693.4	
2012	16-May-12	0	602	481	0.067	0			661.8	
2012	16-May-12	1	385.5	436.5	0.054	0			509.2	
2012	16-May-12	2	350.6	587.8	0.05	0			556.5	
2012	16-May-12	3	318.3	429.2	0.053	49			574	
2012	16-May-12	4	268.8	387.9	0.064	398			556.1	
2012	16-May-12	5	318.7	535.5	0.074	602.1			534.6	
2012	16-May-12	6	515.2	947.5	0.137	578.2			537.9	
2012	16-May-12	7	743.1	817.7	0.202	558.8			543	
2012	16-May-12	8	1112.4	421.5	0.253	525.3			582	
2012	16-May-12	9	1554.2	643.1	0.451	534.9			601.8	
2012	16-May-12	10	1625.6	866.5	0.685	545.9			610.4	
2012	16-May-12	11	1386.5	800.9	0.757	581.8			693.2	
2012	16-May-12	12	1136.5	782.4	0.858	932			805	
2012	16-May-12	13	1334.2	741	0.867	1680.4			863.4	
2012	16-May-12	14	1253.1	773.1	0.672	1832			897.8	
2012	16-May-12	15	1610.2	790.1	0.775	1637.4			911.7	
2012	16-May-12	16	1324.9	1007.3	0.774	1887.8			917.4	
2012	16-May-12	17	699.7	1236.7	0.664	1865.5			880.5	
2012	16-May-12	18	626.5	1147.6	0.41	1836.6			916.4	
2012	16-May-12	19	539.8	847.8	0.375	1753.9			914.3	
2012	16-May-12	20	757	711.9	0.271	1460.2			887.7	
2012	16-May-12	21	657	671.4	0.221	657.4			783.3	
2012	16-May-12	22	506.4	466	0.214	570.7			629.6	
2012	16-May-12	23	708.3	789.7	0.005	551.6			598.8	
2012	17-May-12	0	560.1	1290.9		508.2			594.6	
2012	17-May-12	1	372.8	545.4		510.5			595	
2012	17-May-12	2	255.8	221.4		493.2			597.3	
2012	17-May-12	3	503	234.7		494.3			571.2	
2012	17-May-12	4	1043.4	395.9		508.5			567.4	
2012	17-May-12	5	1135.7	460		518.8			560.7	
2012	17-May-12	6	544.2	542.5		462.2			585.8	
2012	17-May-12	7	379.6	357.5		438.4			600.9	
2012	17-May-12	8	360.1	472.8		505.3			579.9	
2012	17-May-12	9	441.6	861.1		578.7			605.8	
2012	17-May-12	10	489.4	687.4		525.3			615.6	
2012	17-May-12	11	587.2	651.4		514.8			590.5	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	17-May-12	12	805.9	1033.2		475.5			574.4	0.94
2012	17-May-12	13	615.6	949.1		436			579.1	2.1
2012	17-May-12	14	512.6	826.7		661.7			572.6	4.5
2012	17-May-12	15	353.5	673.8		456.1			555.4	1.533
2012	17-May-12	16	477.9	830.7		447.6			558.8	2.1
2012	17-May-12	17	736.6	973.3		434			562.9	2.1
2012	17-May-12	18	471.5	819.9		440.8			564.1	2.1
2012	17-May-12	19	281.9	572.2		460.8			540.2	2
2012	17-May-12	20	323.6	745.4		515.2			560.7	2.1
2012	17-May-12	21	232.7	451.9		440.5			623.6	2.1
2012	17-May-12	22	292.4	268.1		443.8			623.2	2.1
2012	17-May-12	23	223.9	332.9		440.4			664	2
2012	18-May-12	0	223.6	466.2		428.2			583.2	1.6
2012	18-May-12	1	558.2	317.8		432.4			562	4.8
2012	18-May-12	2	523.4	277.1		427			557.9	31.9
2012	18-May-12	3	541.6	275.9		430			531.2	53.5
2012	18-May-12	4	633.8	343.8		425.2			536.4	109.2
2012	18-May-12	5	859.3	543.4		488.5			521	107.1
2012	18-May-12	6	626.8	944.2		525.6			528.6	111.6
2012	18-May-12	7	818.8	793.4		413.7			532.8	198.5
2012	18-May-12	8	1416.5	431.5		423.6			522.3	261.1
2012	18-May-12	9	1479.2	606.5		423.7			540.4	386.1
2012	18-May-12	10	1423.4	861.1		702			531.6	552.124
2012	18-May-12	11	1602.4	1062.6		544.6			536.3	5.44
2012	18-May-12	12	1066	1098.5		1067.3			522.3	2.3
2012	18-May-12	13	905.6	1173.9		918			524.9	77.2
2012	18-May-12	14	803.9	1233.6		756.1			526.5	304.9
2012	18-May-12	15	654.8	1415.7		1364.6			528.4	516.1
2012	18-May-12	16	563.3	1602.6		1697.9			540.7	519.9
2012	18-May-12	17	609.7	1284.1		1705			553.5	451.9
2012	18-May-12	18	533.5	1129.1		1173.7			571.8	303.9
2012	18-May-12	19	597.8	921.8		498.8			682	87.138
2012	18-May-12	20	572.6	925.1		477.6			819.3	
2012	18-May-12	21	398.6	450.6		476.8			847.7	
2012	18-May-12	22	320.7	393.3		463.7			823.5	
2012	18-May-12	23	210.7	179.5		446.4			790	
2012	19-May-12	0	119.4	223.3		446.9			729.3	
2012	19-May-12	1	159.2	116		450.6			774	
2012	19-May-12	2	183	83.9		455.2			840.6	
2012	19-May-12	3	176.6	124		448.1			753.6	
2012	19-May-12	4	185.8	124.4		459.6			653.1	
2012	19-May-12	5	207.9	134.1		444.6			556.6	
2012	19-May-12	6	223.3	122.7		450.6			546.5	
2012	19-May-12	7	223.8	128.8		487.4			533	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-May-12	8	248.6	82.2		492.8			532.3	
2012	19-May-12	9	238.6	134.4		472.9			540.1	
2012	19-May-12	10	191.1	176.3		440.9			548.4	
2012	19-May-12	11	585	321.6		446.5			543.6	
2012	19-May-12	12	428.2	493.1		450.7			531.9	
2012	19-May-12	13	632.6	581.5		463.9			530.9	
2012	19-May-12	14	884.1	856.7		1198.6			546.4	
2012	19-May-12	15	1092.9	762.1		1738			575.4	
2012	19-May-12	16	1094.1	667		1968.4			558.8	
2012	19-May-12	17	918.5	607.1		2158.3			479	
2012	19-May-12	18	818.5	670.5		2020.9			457.7	
2012	19-May-12	19	847.7	928.6		1665.8			523.7	
2012	19-May-12	20	852.8	896.2		1871.7			692.8	
2012	19-May-12	21	532.2	462.9		1248.6			880.6	
2012	19-May-12	22	290.9	108		485.2			871.5	
2012	19-May-12	23	188.6	228.8		433.7			897.7	
2012	20-May-12	0	160.9	295.4		427.6			881.7	
2012	20-May-12	1	118.5	229.1		429.4			871.9	
2012	20-May-12	2	97.8	139.2		431.1			864.5	0.276
2012	20-May-12	3	93.5	88.4		435.4			888.4	2.3
2012	20-May-12	4	83.4	59.5		430.1			812.6	4.8
2012	20-May-12	5	78	65.6		430.7			660.2	20.7
2012	20-May-12	6	81.7	67.2		423.4			561.7	63.9
2012	20-May-12	7	104.3	87.8		417.4			565.4	20.1
2012	20-May-12	8	109.6	53.1		441.9			564.5	1.8
2012	20-May-12	9	98.5	75.9		440.8			585.5	1.8
2012	20-May-12	10	107.1	135.7		440.6			568	2.4
2012	20-May-12	11	120.2	203.8		445.7			569.3	21.7
2012	20-May-12	12	121.2	257.2		442.5			563.9	264.8
2012	20-May-12	13	255.1	240.3		490.4			566.6	536.8
2012	20-May-12	14	345.3	215		533.5			555.9	673.2
2012	20-May-12	15	626	641		552.2			550.8	846.1
2012	20-May-12	16	1027.2	850		658.4			551.5	909.4
2012	20-May-12	17	1087.7	931.6		858.7			557.8	898.7
2012	20-May-12	18	859.2	859.6		597.8			589.4	851.5
2012	20-May-12	19	1202.7	818.9		613.9			564.9	848.1
2012	20-May-12	20	1595.1	939.7		1598.9			586.4	826.7
2012	20-May-12	21	780.3	620.1		888.3			657.2	712.8
2012	20-May-12	22	529.1	337.5		564.1			723.9	553.7
2012	20-May-12	23	402.6	157.4		523.5			737.8	535.7
2012	21-May-12	0	252.7	176.5		514.5			572.4	425.4
2012	21-May-12	1	197.4	108.6		530			547.9	430.4
2012	21-May-12	2	219.3	116.4		506.7			536.9	456.3
2012	21-May-12	3	211.7	135.1		507.7			529.1	475.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-May-12	4	268.4	151.8		496.2			532.8	490.8
2012	21-May-12	5	542.6	252.7		505			516.4	492.9
2012	21-May-12	6	1125.9	294.2		525.9	268.824		463.9	491
2012	21-May-12	7	1632.2	419.1		498.9	291.2		438.3	514
2012	21-May-12	8	1625.2	474.5		515.1	364.1		456.5	663.2
2012	21-May-12	9	1585.8	673.9		619.3	356.7		441.4	780
2012	21-May-12	10	1663.7	789.7		503.3	290.7		356.8	724.1
2012	21-May-12	11	1668.4	689.6		671.6	283.4		88.12	739.3
2012	21-May-12	12	1193.6	477.3		526	280.1			784.3
2012	21-May-12	13	817.7	222.7		508.2	283.4			794.1
2012	21-May-12	14	670.1	187.3		636.4	341.5			786.9
2012	21-May-12	15	485.2	141.7		571.3	87.63			773.1
2012	21-May-12	16	373.9	179.2		526.9				768.6
2012	21-May-12	17	407.3	185.9		620.4				762
2012	21-May-12	18	476	368.2		789.5				778.8
2012	21-May-12	19	550.2	661		1034.1				763.2
2012	21-May-12	20	929.3	870.2		1476.5				754
2012	21-May-12	21	945.2	586.6		1360.1				604.5
2012	21-May-12	22	483.7	228.9		668.4				475.7
2012	21-May-12	23	388.2	135.5		567				464.2
2012	22-May-12	0	316.9	158.8		496.9				467.9
2012	22-May-12	1	300.2	109.7		477.7				470.1
2012	22-May-12	2	253.2	92.7		496.4				468.8
2012	22-May-12	3	231.5	89.2		495.2				467.2
2012	22-May-12	4	280.3	92.3		481.6				491.2
2012	22-May-12	5	537.7	147.3		538.7				498.3
2012	22-May-12	6	897.8	173.1		555.7				496.6
2012	22-May-12	7	1344.6	140.5		505.1				514.4
2012	22-May-12	8	1648.8	125.3		496.1	81.76			591.5
2012	22-May-12	9	1863.7	181.2		1081.3	206.2			722.7
2012	22-May-12	10	1239.3	268		1598.8	393.4			778.2
2012	22-May-12	11	992.1	657		1731.9	346.2			752.1
2012	22-May-12	12	1196	1028		2154.7	532			786.9
2012	22-May-12	13	1261	1154.3		2172.2	756.2			738.5
2012	22-May-12	14	960.8	1082.5		2175.3	1421.7			752.7
2012	22-May-12	15	906.5	967.9		2183.6	1643.8			752.3
2012	22-May-12	16	1001.5	1018.7		2181.6	1782.2			752.1
2012	22-May-12	17	943.1	900.9		2177.3	1819.5			731
2012	22-May-12	18	897.8	784.3		2166.3	2003.8			729.6
2012	22-May-12	19	791.7	646.3		2191.6	2125.4			695.7
2012	22-May-12	20	688.3	604.5		2098.9	2350.5			506.5
2012	22-May-12	21	432.2	474.3		1569.4	2165.4			428.3
2012	22-May-12	22	669.8	281.6		637	1902.4		0	428.8
2012	22-May-12	23	512.1	178.6		486.2	1808.3		1.3	370.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	23-May-12	0	461.9	203.6		537.9	1816.9		47.8	165.6
2012	23-May-12	1	419	153.2		495.6	1814.4		56.1	10.612
2012	23-May-12	2	382.4	157.5		529.9	1828.3		57.5	
2012	23-May-12	3	361.3	135.3		508.4	1825.9		55.9	
2012	23-May-12	4	529.7	165.5		486.6	1906.8		544.9	
2012	23-May-12	5	720.4	317.7		510.3	1885.9		513.7	
2012	23-May-12	6	745.7	498.9		471.3	2062.8		513.7	
2012	23-May-12	7	787	526.2		495.1	2213.5		526.6	
2012	23-May-12	8	986.6	510.6		478.1	2431.3		512.8	
2012	23-May-12	9	1465.1	587.1		892.9	2811.8		509.3	
2012	23-May-12	10	1808.7	796.7		1386.1	2903.9		512.7	
2012	23-May-12	11	2062.5	842.1		1298.7	3006.9		528.9	
2012	23-May-12	12	1465.7	870.3		1474.5	3101.7		533	
2012	23-May-12	13	949.6	805		1977.1	3137		547.5	
2012	23-May-12	14	887.7	853.5		2178.3	3150.4		568.2	
2012	23-May-12	15	939.2	828.3		2185.6	3060.4		532.9	
2012	23-May-12	16	1004.6	853.5		2185	3135.2		518	
2012	23-May-12	17	940.9	749.5		2089.1	3039.1		517.8	
2012	23-May-12	18	800.3	678.3		1567.9	2791.1		649.2	
2012	23-May-12	19	860.2	675.9		992.9	2765.2		801.1	
2012	23-May-12	20	908.8	682.1		746.4	2896.9		775.5	
2012	23-May-12	21	741.7	609.3		579.2	2625.7		717.8	
2012	23-May-12	22	443.4	341.8		550.9	2278.6		645.2	
2012	23-May-12	23	294.1	192.3		526	1981.1		528	
2012	24-May-12	0	210.4	187.5		492	1867.5		485.4	
2012	24-May-12	1	250.5	361.7		498.9	1854.7		502.7	
2012	24-May-12	2	591.6	476.9		486.9	1848.5		508.4	
2012	24-May-12	3	793.5	441.9		471.7	1863.7		501.7	
2012	24-May-12	4	365.5	544.9		480.6	1867		498.4	
2012	24-May-12	5	1048.2	939.7		491.4	1870.1		497.4	
2012	24-May-12	6	1813.7	1497		509.4	1937.5		465.3	
2012	24-May-12	7	1957.1	1040.7		525.7	2244.2		488.4	
2012	24-May-12	8	1097.2	523.5		537.6	2545.8		552.6	
2012	24-May-12	9	1046.9	645.9		631.9	2771.4		560.3	
2012	24-May-12	10	1017.4	772.2		1255.8	2999.9		539.6	
2012	24-May-12	11	1045.6	809.8		1625.1	3141.6		532.9	
2012	24-May-12	12	979.1	844.7		1946.5	3181.3		566.1	
2012	24-May-12	13	865.9	790.7		2133.5	3197.3		645.9	0.8
2012	24-May-12	14	848.6	811.2		2229.1	3188.6		732.6	2.2
2012	24-May-12	15	834.3	848.5		2226	3221		704.6	6.2
2012	24-May-12	16	859.4	894.4		2196.9	3238.3		791.6	1.6
2012	24-May-12	17	619.5	699.9		2022	3188.1		787.2	1.5
2012	24-May-12	18	686.6	685.1		1912	3174		787.8	1.6
2012	24-May-12	19	854.4	567.4		2034.3	3226.2		821	1.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	24-May-12	20	857.8	619.5		2000.8	3150.9		815.1	1.7
2012	24-May-12	21	507.4	416.5		1263	2816.5		791.8	17.1
2012	24-May-12	22	667.4	426.2		629.2	2462.5		743.6	50.5
2012	24-May-12	23	519.5	235.4		568.3	2294.1		657	101
2012	25-May-12	0	405.7	424.5		533.1	2035.5		660.2	152.3
2012	25-May-12	1	242.4	419.2		539.8	1946.4		584.2	218.7
2012	25-May-12	2	195.1	390.2		518.7	1939.4		546	454.6
2012	25-May-12	3	172.6	300		517.2	1958.8		492	495.4
2012	25-May-12	4	223.6	374.4		508.5	2229.5		547	480.6
2012	25-May-12	5	506.1	658.2		496.1	2493.3		543.9	465.2
2012	25-May-12	6	857	1327.9		522.9	2583.9		512.1	462.1
2012	25-May-12	7	1569.6	1243.6		527.9	2769		520.5	504
2012	25-May-12	8	1615.4	514.8		588.4	2942.7		535.2	595.9
2012	25-May-12	9	1328.2	488.8		1188.4	3158		551.3	669.1
2012	25-May-12	10	1343.9	601.7		1422.4	3145.1		544.4	746
2012	25-May-12	11	1383	691.1		1992	3227.6		533.2	847.6
2012	25-May-12	12	1512	760.8		2177.8	3236.6		549.6	866.9
2012	25-May-12	13	1617.5	581.5		2240	3240.1		550.6	825.7
2012	25-May-12	14	2024.3	742		2254.6	3220.4		584.1	870.8
2012	25-May-12	15	1144.9	1091.9		2241.5	3190.9		685.6	891.5
2012	25-May-12	16	1133.6	1294.8		2159.3	3176.3		769.9	938.6
2012	25-May-12	17	1149.4	1363.9		2275.2	3182.1		742.1	835.8
2012	25-May-12	18	963.7	1215.9		2226.9	3145.1		739.8	739.4
2012	25-May-12	19	960.7	1018.2		2115.7	3122.1		742.7	523.2
2012	25-May-12	20	954.3	950.2		2110.4	3162.3		750.5	480.8
2012	25-May-12	21	776.9	878.6		1518.1	2847		701.4	465.8
2012	25-May-12	22	648.1	1004.9		936.7	2662.3		578.7	471.8
2012	25-May-12	23	460.8	527.2		574.6	2369		512.1	463.2
2012	26-May-12	0	470.4	334.6		583.1	1984.6		526.8	475.1
2012	26-May-12	1	325	203.9		541.9	1876.7		510.3	487.3
2012	26-May-12	2	214.4	216.6	0.013	554	1877.7		511.5	525.4
2012	26-May-12	3	224.1	146.7	0.081	559.5	1868.4		508.4	517.9
2012	26-May-12	4	225.4	139.3	0.076	585.9	1873.5		498.7	511
2012	26-May-12	5	208.4	133.2	0.08	581.7	1878.8		473.8	502
2012	26-May-12	6	189.1	117.6	0.076	547.9	1880.3		448.5	508.7
2012	26-May-12	7	194.5	127.7	0.049	503.8	2005.3		415.9	506.5
2012	26-May-12	8	349.5	179	0.058	526.8	2305.4		549.8	526.6
2012	26-May-12	9	490	350.2	0.077	545.9	2533.5		560.1	542.6
2012	26-May-12	10	961	656.6	0.207	736.3	2900.3		546.2	542.5
2012	26-May-12	11	1456.1	1141.3	0.258	1434.2	2985.8		545.4	513.6
2012	26-May-12	12	1044	1167.7	0.255	1382.3	2788.3		553.4	518.3
2012	26-May-12	13	944.3	889.5	0.426	1494.9	3029.2		650.6	535
2012	26-May-12	14	813.1	363.1	0.533	1992.2	3077.7		738.1	537.4
2012	26-May-12	15	731.5	288.7	0.571	2151.9	3055.2		773	532.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-May-12	16	756.6	243.4	0.495	1892.1	2885.8		776.8	659
2012	26-May-12	17	959.9	356.9	0.336	1570.1	2676.2		789.6	638.7
2012	26-May-12	18	1156.1	358.2	0.246	1176.3	2668.6		797.7	653.8
2012	26-May-12	19	1052.5	410	0.23	568.8	2633		802	652.5
2012	26-May-12	20	606.7	351.2	0.001	560.4	2557.2		755.8	660.9
2012	26-May-12	21	415.3	371.2		569.7	2382.9		749.2	666.1
2012	26-May-12	22	813.7	346.7		577.3	2113.4		769.4	648.6
2012	26-May-12	23	446.7	176.8		577.8	1857.6		814.1	508.4
2012	27-May-12	0	382.9	149.7		577.8	1867.8		743.3	505
2012	27-May-12	1	347.8	131.3		553.8	1869.7		536	502.7
2012	27-May-12	2	306.9	129.2		561.9	1888.5		508	512.2
2012	27-May-12	3	345.7	118.5		570.1	1880.2		544.2	517
2012	27-May-12	4	373.3	128.8		488.1	1868.4		547.9	514.2
2012	27-May-12	5	379	133.1		446	1868		553.1	514.9
2012	27-May-12	6	363.1	143.8		459.4	1870.2		547.4	510
2012	27-May-12	7	403.7	155.8		486.9	2031		549.3	514.7
2012	27-May-12	8	381.8	105.8	0.001	488.9	2150.7		545.8	515.1
2012	27-May-12	9	366.7	138	0.069	504.7	2269.5		539	493.8
2012	27-May-12	10	751.1	188.9	0.129	527.8	2657.1		540.1	487.1
2012	27-May-12	11	1112.3	303.2	0.253	479.6	2746.4		606.8	480
2012	27-May-12	12	1439.5	521.1	0.289	551.8	2798.4		737.5	499.2
2012	27-May-12	13	1303.3	1154.8	0.279	534.3	2833.1		814.3	489.6
2012	27-May-12	14	1544.3	1113.6	0.306	485.5	2807.8		807.5	606.9
2012	27-May-12	15	1815.3	1215.9	0.461	1100.6	3053.7		806.4	744.4
2012	27-May-12	16	1284.9	1207.4	0.562	1364	3069.2		794.6	814.9
2012	27-May-12	17	1079.1	1184.7	0.716	1984.3	2909.3		796.2	855.6
2012	27-May-12	18	615.4	1009.2	0.554	1580.2	2613		795.9	743
2012	27-May-12	19	256.4	485.7	0.268	872.2	2368.6		803.1	580.9
2012	27-May-12	20	848.6	707.8	0.011	565.4	2450		816.4	484.5
2012	27-May-12	21	826.5	617.3		584.5	2399.5		813	464.8
2012	27-May-12	22	389.2	316.4		580.1	2184.2		802	444.1
2012	27-May-12	23	408.3	214		557.1	1945.8		800.2	439.5
2012	28-May-12	0	255.2	177.3		549.5	1861.9		765.9	439.5
2012	28-May-12	1	230.8	115		549.7	1855.5		624.8	443
2012	28-May-12	2	284.9	123.1		551.2	1853.2		551.9	474.9
2012	28-May-12	3	329.1	131.7		559	1846.4		548.2	480
2012	28-May-12	4	284.5	143.2		552.1	1843		544.4	691.2
2012	28-May-12	5	379.9	157.4		554.4	1835		564.3	547.6
2012	28-May-12	6	405	167		550.2	1837.9		560.5	457.9
2012	28-May-12	7	364.7	163.3	0.039	545.9	1813.2		551	462.4
2012	28-May-12	8	322.4	113.9	0.064	503.7	2137.8		548.8	461.4
2012	28-May-12	9	278	116.8	0.067	529.8	2309.1		548.1	469.3
2012	28-May-12	10	392.2	171	0.234	536.9	2696.7		523.7	483.1
2012	28-May-12	11	661.4	308.4	0.343	774.7	2891.9		585.2	485.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	28-May-12	12	1085.3	435.6	0.458	1406.6	3003.7		672.8	623.2
2012	28-May-12	13	1291.3	597.8	0.453	1842	3003.7		793.2	792.4
2012	28-May-12	14	947	769.7	0.453	2249.7	3136.7		794.5	950.4
2012	28-May-12	15	1565.5	1114.7	0.715	2356.7	3125.1		772.5	983.7
2012	28-May-12	16	1815.2	1334.5	0.852	2423.1	3193.5		783.1	945.2
2012	28-May-12	17	2112.1	1511.1	0.837	2445.4	3205.2		789.1	898.8
2012	28-May-12	18	1109.6	823.4	0.744	2449.4	3247.2		779.2	844.7
2012	28-May-12	19	578	398.5	0.647	2181.8	3277.5		779.2	840
2012	28-May-12	20	582.9	383.8	0.766	2352.6	3265.7		777.4	934.5
2012	28-May-12	21	747.1	400.8	0.392	2067.5	3128.7		729.4	853.2
2012	28-May-12	22	779.6	403.7	0.046	1315.9	2915.4		717.9	731.6
2012	28-May-12	23	645.6	309.3		693.8	2622.1		703.5	681.2
2012	29-May-12	0	545.1	138		527.4	2348.8		712.3	653.3
2012	29-May-12	1	528	171.6		557.9	2145.7		640.9	594.3
2012	29-May-12	2	347.1	150.3	0.011	540.1	1978.4		628.5	483.6
2012	29-May-12	3	246.4	107.2	0.051	550.2	1975.6		490.6	475.6
2012	29-May-12	4	229.8	97.8	0.051	547.4	2101.2		475.8	485.4
2012	29-May-12	5	373.4	137.9	0.044	572.7	2235.6		473.9	482.6
2012	29-May-12	6	686	276.5	0.062	1238.1	2655.5		492.5	713.4
2012	29-May-12	7	1107.7	298.4	0.181	1471.5	3104.6		486.5	837.9
2012	29-May-12	8	1551.1	186.5	0.252	1707.2	3330.9		506.2	903.8
2012	29-May-12	9	1938.2	214.7	0.599	1719.1	3340.7		506.5	828.1
2012	29-May-12	10	1105.3	254.1	0.891	2260	3373.9		491.4	604.7
2012	29-May-12	11	1747.9	391.7	0.882	2260.2	3409.3		495.8	388.4
2012	29-May-12	12	1979.3	596.3	0.879	2263	3406.4		571.3	402.1
2012	29-May-12	13	1760.4	604.3	0.876	2268.9	3444.9		660.1	499.4
2012	29-May-12	14	1190.3	674.9	0.876	2270.1	3447.1		744.6	798.6
2012	29-May-12	15	1198.6	565.1	0.875	2272.8	3431.5		746.8	911.5
2012	29-May-12	16	934.1	573.4	0.863	2269.5	3449.9		762.2	940.4
2012	29-May-12	17	598.3	378.3	0.651	2249.1	3416.2		768.5	947.2
2012	29-May-12	18	454.1	289.9	0.477	2183.5	3368.6		757	975.4
2012	29-May-12	19	414.4	232.1	0.447	2034.3	3259.6		740.1	961.5
2012	29-May-12	20	459.6	221.4	0.436	2144.6	3448.1		753.9	951.6
2012	29-May-12	21	455.5	155.7	0.239	1804.2	3261.1		749.5	922.8
2012	29-May-12	22	434	110.4		1438.2	2973.3		746.7	880.6
2012	29-May-12	23	656.2	234.7		706.2	2615.9		646.8	730.2
2012	30-May-12	0	765.9	294.7		452.8	2298.6		678.4	711.4
2012	30-May-12	1	417.6	236		458.5	2068.5		709.9	696.9
2012	30-May-12	2	344.2	243.4		461.9	2058.8		673.4	681.1
2012	30-May-12	3	223.2	163.7		557.3	2071.9		584.4	695.3
2012	30-May-12	4	368.5	216.9		567.5	2095.4		512.4	694.3
2012	30-May-12	5	910.9	321.2		543.3	2187.6		492.3	692.2
2012	30-May-12	6	1314.4	531.8		569.6	2211.4		494.8	695.8
2012	30-May-12	7	982.4	836.3	0.076	558.9	2233.7		499.8	691



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	30-May-12	8	837.1	985.3	0.079	577.4	2491.5		504.2	663
2012	30-May-12	9	553.9	753.4	0.066	588.6	2650.7		539.4	669.2
2012	30-May-12	10	367.9	458.2	0.18	559.4	2773.7		514.5	672.4
2012	30-May-12	11	404.3	524.3	0.252	330.1	2817.6		518.5	675
2012	30-May-12	12	448.6	353.7	0.259	0	2564.8		531.5	671.9
2012	30-May-12	13	369.4	339.3	0.246		2659.2		562.4	678.6
2012	30-May-12	14	438.2	451.3	0.288		2888.9		523.1	700.7
2012	30-May-12	15	643	599.3	0.51		3216.8		573.4	657.6
2012	30-May-12	16	626.4	637.7	0.558		3273.4		657.9	659.8
2012	30-May-12	17	707.4	650.6	0.717		3353.2		733.2	642.1
2012	30-May-12	18	695.1	557	0.528		3276.5		790.8	630.1
2012	30-May-12	19	742.5	703.3	0.502		3219.1		787.9	570.3
2012	30-May-12	20	631.2	661.4	0.218		2824.8		777.5	567.9
2012	30-May-12	21	329.2	303.5			2373.9		788.4	566.9
2012	30-May-12	22	220.9	199.4			2122.9		762.9	566.9
2012	30-May-12	23	134	147.7			2088.5		727.2	626.4
2012	31-May-12	0	93.2	116.3			2094.6		741.2	638
2012	31-May-12	1	71.9	80.5			2079.5		669.3	640.3
2012	31-May-12	2	76.7	101.4			2081.8		514.3	635.1
2012	31-May-12	3	93.7	97.4			2076.1		485.7	637.2
2012	31-May-12	4	99.3	98.3			2085.5		479.1	640.7
2012	31-May-12	5	98.5	90.5			2091.3		486.3	642.4
2012	31-May-12	6	106.1	110.8			2175.1		482.9	658
2012	31-May-12	7	104.4	135.4			2182.1		484.8	664.1
2012	31-May-12	8	96	117.4			2519.8		486.2	662.9
2012	31-May-12	9	81.7	198.2			2924.1		514.3	680.8
2012	31-May-12	10	150.2	267.7			2986.7		526.5	723.5
2012	31-May-12	11	348.6	397			3188.8		520.2	684.1
2012	31-May-12	12	583.7	594.8			3330.7		523.2	630.9
2012	31-May-12	13	546.4	741.4			3276.6		527.2	646.6
2012	31-May-12	14	673.3	900.8			3386.5		539	875.1
2012	31-May-12	15	660.3	894			3481.1		612.9	871.3
2012	31-May-12	16	552.5	834.7			3457.8		704.5	878.4
2012	31-May-12	17	724	803.6			3259.1		788.9	826.3
2012	31-May-12	18	525	749.3			3231.8		774	728.2
2012	31-May-12	19	628.7	820.4			3085.7		764.2	623.2
2012	31-May-12	20	627	720.1			3211.6		797.7	588.3
2012	31-May-12	21	354.1	341			2834.4		806.1	630.1
2012	31-May-12	22	186.732	215.4			2392.9		750.6	629.4
2012	31-May-12	23		172.7			2091.6		768.4	634
2012	1-Jun-12	0		144.4			2045.2		734.1	614.1
2012	1-Jun-12	1		110.8			2055.9		587.4	635.3
2012	1-Jun-12	2		111.3			2041.3		510.5	625.9
2012	1-Jun-12	3		118.5			2027.3		517.6	622

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	1-Jun-12	4		137.3			2025.9		505.4	642.2
2012	1-Jun-12	5		122.2			2027.2		510.1	649.8
2012	1-Jun-12	6		159.9			2094.9		514.1	635.1
2012	1-Jun-12	7		219.4			2248.8		515.8	642.2
2012	1-Jun-12	8		229.4			2352.4		535.3	630.5
2012	1-Jun-12	9		333			2389.3		541.9	770.9
2012	1-Jun-12	10		309.1			2351.6		523.5	830.8
2012	1-Jun-12	11		323.4			2280.8		520.1	814.1
2012	1-Jun-12	12		272.6			2320.6		509.3	854.2
2012	1-Jun-12	13		245.5			2312.7		508.4	869.1
2012	1-Jun-12	14		219.5			2200.9		513	883.2
2012	1-Jun-12	15		188.3			2104.6		614.8	922.1
2012	1-Jun-12	16		166.4			2069.7		712.4	896.3
2012	1-Jun-12	17		139			2031.6		706.5	882.8
2012	1-Jun-12	18		162.4			2097.1		695	842.8
2012	1-Jun-12	19		158.8			2213.1		690.1	772.9
2012	1-Jun-12	20		198.1		0	2070.9		692.8	813.3
2012	1-Jun-12	21		135.4		0	2049.4		683.8	681.7
2012	1-Jun-12	22		148.7		0	2022.1		668.3	616.7
2012	1-Jun-12	23		114.4		0	1911.6		740.5	639.2
2012	2-Jun-12	0		120.2		0	685.712		727.1	640.3
2012	2-Jun-12	1		108.9		0			575.7	632.2
2012	2-Jun-12	2		110.4					485.1	768.7
2012	2-Jun-12	3		106.6					489.5	639.5
2012	2-Jun-12	4		109.7					476.7	674.7
2012	2-Jun-12	5		91.6					488.7	834.5
2012	2-Jun-12	6		100.6					489	866.6
2012	2-Jun-12	7		101.2					484.2	859.5
2012	2-Jun-12	8		63.2					482.6	875
2012	2-Jun-12	9		97					491.8	865.6
2012	2-Jun-12	10		122.1					493.9	841.1
2012	2-Jun-12	11		128.9					484.1	827.3
2012	2-Jun-12	12		165.3					489.8	811.9
2012	2-Jun-12	13		133.2					534.7	819.7
2012	2-Jun-12	14		106.9					569.3	808
2012	2-Jun-12	15		76.7					583.9	806.7
2012	2-Jun-12	16		83.6					693	814.6
2012	2-Jun-12	17		73.8					698.3	817.4
2012	2-Jun-12	18		82					692.3	707.5
2012	2-Jun-12	19		76.2					680.6	607.1
2012	2-Jun-12	20		90.3					692.4	644.1
2012	2-Jun-12	21		74.8					674.3	589.4
2012	2-Jun-12	22		76.6					674.8	556.2
2012	2-Jun-12	23		64.3					675.5	588

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	3-Jun-12	0		73					693.8	585.9
2012	3-Jun-12	1		63.3					645.5	585.7
2012	3-Jun-12	2		70.5					503.1	584.2
2012	3-Jun-12	3		59.3					473.3	582.8
2012	3-Jun-12	4		68.7					467.8	581.8
2012	3-Jun-12	5		58.8					463.4	580.1
2012	3-Jun-12	6		66.5					480.3	578.1
2012	3-Jun-12	7		83.4					498.2	585.4
2012	3-Jun-12	8		126					478.3	604.2
2012	3-Jun-12	9		150.5					488.6	701.1
2012	3-Jun-12	10		291.3					487	802.8
2012	3-Jun-12	11		321.6					468.6	869.5
2012	3-Jun-12	12		410.9					464.9	865.6
2012	3-Jun-12	13		658.7					500.5	908.6
2012	3-Jun-12	14		589					495.3	915.4
2012	3-Jun-12	15		978.2					488.7	920.7
2012	3-Jun-12	16		354					535.6	933.2
2012	3-Jun-12	17		235.5					641	942.8
2012	3-Jun-12	18		171.7					691.4	932.2
2012	3-Jun-12	19		177.7					682.8	735.1
2012	3-Jun-12	20		153.7					653	639.9
2012	3-Jun-12	21		160.6					652.4	740.5
2012	3-Jun-12	22		117.5					627.8	701.7
2012	3-Jun-12	23		87.4					665.7	659.4
2012	4-Jun-12	0		70.4					659.5	660.5
2012	4-Jun-12	1		63.6					604.4	652.2
2012	4-Jun-12	2		61.4					472.5	647.4
2012	4-Jun-12	3		199.8					438.5	652.3
2012	4-Jun-12	4		421.5					461.9	646.8
2012	4-Jun-12	5		412.6					468.1	660.5
2012	4-Jun-12	6		455.7					457.2	722.5
2012	4-Jun-12	7		448.6					456.6	777.7
2012	4-Jun-12	8		602.6					449.6	851.8
2012	4-Jun-12	9		291.1					442.6	878
2012	4-Jun-12	10		316.4					433.3	875.5
2012	4-Jun-12	11		451					438.4	883
2012	4-Jun-12	12		444					442.3	883.8
2012	4-Jun-12	13		586.3					482.1	878.2
2012	4-Jun-12	14		504.4					452.9	885.5
2012	4-Jun-12	15		718.4					459	888.4
2012	4-Jun-12	16		691.4					504.9	899.8
2012	4-Jun-12	17		470.1					610.3	913.2
2012	4-Jun-12	18		309.9					715.4	921.3
2012	4-Jun-12	19		375.6					647.5	879.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-Jun-12	20		297.7					663.1	600.5
2012	4-Jun-12	21		255.2					519.3	665.3
2012	4-Jun-12	22		195.5					490.2	749.8
2012	4-Jun-12	23		179.3					485.2	641.4
2012	5-Jun-12	0		146.3					485.7	636.5
2012	5-Jun-12	1		119.7					441.8	630.2
2012	5-Jun-12	2		120.6					438.7	625
2012	5-Jun-12	3		88.9					433.8	629
2012	5-Jun-12	4		97.1					434.7	624.7
2012	5-Jun-12	5		95.3					439.4	622.6
2012	5-Jun-12	6		115.9					442	632
2012	5-Jun-12	7		112.7					440.6	747.6
2012	5-Jun-12	8		91.2					445.6	815.7
2012	5-Jun-12	9		105.1					446.6	566
2012	5-Jun-12	10		119.6					480.1	763.2
2012	5-Jun-12	11		115.9					497.6	877.9
2012	5-Jun-12	12		107.5					474.1	892.7
2012	5-Jun-12	13		95.2					467.2	885.6
2012	5-Jun-12	14		107.8					466.4	879.5
2012	5-Jun-12	15		88.1					468.6	877.7
2012	5-Jun-12	16		107.9					467.3	842.5
2012	5-Jun-12	17		63.2					461	824.8
2012	5-Jun-12	18		45.1					460.9	813.7
2012	5-Jun-12	19		44.1					486.5	814.1
2012	5-Jun-12	20		71.8					501.1	809
2012	5-Jun-12	21		65.5					491.6	679.9
2012	5-Jun-12	22		86					484	431.7
2012	5-Jun-12	23		69.7					482.5	432.2
2012	6-Jun-12	0		82					483	428.5
2012	6-Jun-12	1		55.7					484	431.1
2012	6-Jun-12	2		83.4					484.7	430.1
2012	6-Jun-12	3		74.7					477.4	438.6
2012	6-Jun-12	4		120.1					481.1	441.4
2012	6-Jun-12	5		309.9					480.3	440.1
2012	6-Jun-12	6		287.1					489.3	503.8
2012	6-Jun-12	7		255.1					491	489.1
2012	6-Jun-12	8		357.7					480.9	519.5
2012	6-Jun-12	9		567.3					459.4	654.9
2012	6-Jun-12	10		344.2					450.1	767.5
2012	6-Jun-12	11		556.2					450.6	794.9
2012	6-Jun-12	12		688.9					455.9	837.1
2012	6-Jun-12	13		599.6					464.2	839.5
2012	6-Jun-12	14		509.5					508.6	829.5
2012	6-Jun-12	15		886					603.1	830.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	6-Jun-12	16		849.2					718.5	825.9
2012	6-Jun-12	17		986.1					752.1	823.7
2012	6-Jun-12	18		542.8					757.5	813
2012	6-Jun-12	19		396.3					761.4	702.2
2012	6-Jun-12	20		303.3					764.4	739.1
2012	6-Jun-12	21		796.9					743.4	677.7
2012	6-Jun-12	22		745.9					750.1	470.9
2012	6-Jun-12	23		603.3					709.9	484.7
2012	7-Jun-12	0		531.3					691.6	493.6
2012	7-Jun-12	1		514.7					533.2	502.2
2012	7-Jun-12	2		543.5					459.3	503.7
2012	7-Jun-12	3		529.9					462	509.4
2012	7-Jun-12	4		551.8					463.8	491.1
2012	7-Jun-12	5		464					465.4	526.7
2012	7-Jun-12	6		571.1					465.3	545.2
2012	7-Jun-12	7		466.5					464.1	557.2
2012	7-Jun-12	8		205.5					516.2	473.1
2012	7-Jun-12	9		320.1					518	535.6
2012	7-Jun-12	10		333.1					517.8	502.2
2012	7-Jun-12	11		555.5					515.3	699.2
2012	7-Jun-12	12		705.5		0			505.9	858.1
2012	7-Jun-12	13		962.3		0			571.8	872.7
2012	7-Jun-12	14		850.7		0			617.3	863.4
2012	7-Jun-12	15		859.9		0			590.8	853.7
2012	7-Jun-12	16		918.6		0			647.8	847.8
2012	7-Jun-12	17		932.4		0			664	839.1
2012	7-Jun-12	18		965.4		0			668.8	792.1
2012	7-Jun-12	19		737.8		0			609.2	577.3
2012	7-Jun-12	20		562.9		0			582.3	566.1
2012	7-Jun-12	21		501.7		0			576.4	561.2
2012	7-Jun-12	22		253.9		0	5.88		589.2	421.9
2012	7-Jun-12	23		621.2		0	15.2		610.2	419.4
2012	8-Jun-12	0		708.1		0	13.3		577.4	415.2
2012	8-Jun-12	1		477		0	10.725		566.7	426.9
2012	8-Jun-12	2		500.3		0			524	424.7
2012	8-Jun-12	3		409.9		0	63.546		421.1	427.8
2012	8-Jun-12	4		446.3		0	254.3		389.5	427.7
2012	8-Jun-12	5		430		0	270		381.5	437.7
2012	8-Jun-12	6		487.6		0	264.4		375.7	477.8
2012	8-Jun-12	7		533.6		0	268		373.1	448.4
2012	8-Jun-12	8		648.2		0	284.9		410.8	549.4
2012	8-Jun-12	9		945.5		0	435.4		394.5	624.6
2012	8-Jun-12	10		532.5		0	540.6		420.6	652.5
2012	8-Jun-12	11		618.4		0	636.7		446.6	797.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-Jun-12	12		792.6		0	904.2		526.4	883.7
2012	8-Jun-12	13		1035.4		0	1795.5		554.4	894.4
2012	8-Jun-12	14		1152		0	2174.2		532.2	880.6
2012	8-Jun-12	15		1028.6			2763.6		568.7	890.1
2012	8-Jun-12	16		1256.1			3236.4		603.5	884.6
2012	8-Jun-12	17		945.3			3211.2		602.3	868.7
2012	8-Jun-12	18		1127.9			3046.2		676.4	766.4
2012	8-Jun-12	19		809.1			2874.1		643.7	831.3
2012	8-Jun-12	20		989.4	0.008		2754.8		668.7	816
2012	8-Jun-12	21		421.6	0.061		2379		652.8	618.6
2012	8-Jun-12	22		259.6	0.069		2043.1		646.5	437.1
2012	8-Jun-12	23		228	0.07		2073.2		648.3	420.3
2012	9-Jun-12	0		191.9	0.068		2056.1		634.6	421.9
2012	9-Jun-12	1		122.4	0.066		2089.1		620.9	421.7
2012	9-Jun-12	2		130.6	0.055		2083.9		606.3	426.8
2012	9-Jun-12	3		124.8	0.055		2090.1		545	434.9
2012	9-Jun-12	4		457.5	0.055		2088		525.9	439.3
2012	9-Jun-12	5		570.8	0.055		2097		433.2	446.8
2012	9-Jun-12	6		571.3	0.055		2093.6		430	441
2012	9-Jun-12	7	4.355	488.3	0.055		2059.4		423.1	441.3
2012	9-Jun-12	8	3.7	515.7	0.055		2081.9		409.3	491.9
2012	9-Jun-12	9	4.7	619.5	0.088		2173.6		401.1	568.6
2012	9-Jun-12	10	4.7	280.7	0.243		2413.4		456.8	678.8
2012	9-Jun-12	11	2.8	165.5	0.245		2641.7		528.9	859.8
2012	9-Jun-12	12	3	127	0.233		2626.5		588	865.1
2012	9-Jun-12	13	2	156.4	0.231		2641.2		643.6	850.8
2012	9-Jun-12	14	2	308.2	0.231		2664.4		717.3	842.3
2012	9-Jun-12	15	2.1	470	0.231		2797.6		742.1	838.9
2012	9-Jun-12	16	2.1	576.4	0.253		2878.1		757.4	830.9
2012	9-Jun-12	17	2.1	685.6	0.347		2926		675.1	822.5
2012	9-Jun-12	18	2.1	954.7	0.303		2830.9		657	811.6
2012	9-Jun-12	19	3.5	505.6	0.241		2479.3		618.3	834.5
2012	9-Jun-12	20	5.2	399.6	0.219		2434.3		682	782.4
2012	9-Jun-12	21	5.2	250.6	0.213		2119.5		655.9	619.3
2012	9-Jun-12	22	5.3	148.9	0.162		2031.8		704	431.2
2012	9-Jun-12	23	5.4	101.8			2045.1		732	466.2
2012	10-Jun-12	0	6.9	387.7			2033.8		699.6	484.5
2012	10-Jun-12	1	10	608.1			2035.2		509.2	430.8
2012	10-Jun-12	2	6.6	247.6			2028.2		473.2	416.5
2012	10-Jun-12	3	6.6	121.6	0.017		2040.1		459.8	416.7
2012	10-Jun-12	4	6.6	109.8	0.037		2021.7		463.4	419.2
2012	10-Jun-12	5	7	87.7	0.037		2018.3		463.8	415.9
2012	10-Jun-12	6	7.1	120	0.047		2021.7		460.1	414.9
2012	10-Jun-12	7	7.1	81.6	0.052		1978.2		465.5	421.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-Jun-12	8	7.1	28.8	0.046		2019.4		488.5	421
2012	10-Jun-12	9	13.9	53.5	0.08		2188.5		493.1	574
2012	10-Jun-12	10	17.2	103.5	0.231		2489.6		539.6	707.1
2012	10-Jun-12	11	44.3	215.2	0.345		3005.5		570.9	741.9
2012	10-Jun-12	12	91.3	424.5	0.388		3032.9		559.2	785.5
2012	10-Jun-12	13	214.6	740.9	0.604		3164.9		532.3	777
2012	10-Jun-12	14	689.2	1019.1	0.752		3293.3		527.2	798.9
2012	10-Jun-12	15	1262.7	929.4	0.757		3374.1		558	790.5
2012	10-Jun-12	16	1914	1295.6	0.851		3405.3		606.6	788.6
2012	10-Jun-12	17	1150.5	1263.2	0.772		3350.4		678.8	782.1
2012	10-Jun-12	18	857.8	1671.8	0.563		3240.3		733.3	776.4
2012	10-Jun-12	19	959	1085.7	0.243		3004.8		738.5	775.2
2012	10-Jun-12	20	1221	822.1			3083.9		693.5	762.3
2012	10-Jun-12	21	1116.2	476.9			2775		671.5	672.5
2012	10-Jun-12	22	720.3	256.1			2329.8		555.3	541.5
2012	10-Jun-12	23	427.7	273.2			2078.6		515.4	482.6
2012	11-Jun-12	0	381.6	304			2022.6		494.1	402.4
2012	11-Jun-12	1	270	181			2033.2		470.7	402.5
2012	11-Jun-12	2	235.8	138.8	0.005		2046.6		460.1	406.5
2012	11-Jun-12	3	662.7	323.4	0.055		2046.3		450	414.4
2012	11-Jun-12	4	701.1	489.8	0.052		2053		357.2	414.1
2012	11-Jun-12	5	317.9	403.8	0.052		2054.6		367.5	413.2
2012	11-Jun-12	6	227.3	423.9	0.052		2104.7		383.8	420.2
2012	11-Jun-12	7	257.7	315	0.06		2311.1		378.1	421.8
2012	11-Jun-12	8	441.1	693.1	0.116		2628.3		378.8	425.1
2012	11-Jun-12	9	726.2	591.8	0.064		2704		362.6	518
2012	11-Jun-12	10	1005.8	1058.1			3050.1		389.1	577.7
2012	11-Jun-12	11	1267.7	1253.6			3285.6		382.8	636
2012	11-Jun-12	12	1038.4	1793.7			3386.1		383.7	754.2
2012	11-Jun-12	13	1126.2	1445			3377.5		380.2	801.4
2012	11-Jun-12	14	1154.3	782			3337.7		380.3	783.1
2012	11-Jun-12	15	927	598.3			3351		365.9	766.9
2012	11-Jun-12	16	894.8	547.2			3367.6		376.3	746
2012	11-Jun-12	17	566.2	350.7			3395		380.8	743.6
2012	11-Jun-12	18	624.4	447.9			3293.5		391.4	710.4
2012	11-Jun-12	19	788.7	436.5			3219.6		409.3	743.7
2012	11-Jun-12	20	888.2	434.9			3223.5		409.1	767.4
2012	11-Jun-12	21	696	504.4			2858.9		407.8	695.3
2012	11-Jun-12	22	877.9	646			2374.8		384	513.1
2012	11-Jun-12	23	590.1	447			1852.9		420.1	360.8
2012	12-Jun-12	0	490.1	388.1			316.894		424.5	374.7
2012	12-Jun-12	1	360.8	200					428.7	382.9
2012	12-Jun-12	2	334.2	185.8					421.1	377.7
2012	12-Jun-12	3	328.5	167.6					424.5	377

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	12-Jun-12	4	362.1	189.6					418.4	376.7
2012	12-Jun-12	5	408	218.7					415.1	375.4
2012	12-Jun-12	6	421	198.7					411.5	383.3
2012	12-Jun-12	7	414	280.4					414.3	388.3
2012	12-Jun-12	8	407.9	313.8					408.9	392.3
2012	12-Jun-12	9	583.1	183.4					408	500
2012	12-Jun-12	10	1003.9	107.9					402.1	565
2012	12-Jun-12	11	851.2	120.9					407.6	755.5
2012	12-Jun-12	12	856.1	172.4					410.3	799.2
2012	12-Jun-12	13	1318.1	676					392.9	844
2012	12-Jun-12	14	1669.2	1124.9					376.5	780.8
2012	12-Jun-12	15	1022.6	1419.7					381.1	724.5
2012	12-Jun-12	16	1294.3	1319.5					386	703.3
2012	12-Jun-12	17	1080.9	1275.5					384.3	547.1
2012	12-Jun-12	18	633.3	838.4					378	433.1
2012	12-Jun-12	19	620	820.5					381.9	448.5
2012	12-Jun-12	20	858.6	786					393.3	499.7
2012	12-Jun-12	21	883.6	1001.3					403.4	412.5
2012	12-Jun-12	22	679.6	685.5					403.6	401.6
2012	12-Jun-12	23	520.4	734.9					407	405.7
2012	13-Jun-12	0	706.8	492.6					408.6	403.9
2012	13-Jun-12	1	543.2	314.9					407.6	404
2012	13-Jun-12	2	400.9	263					403.4	405.2
2012	13-Jun-12	3	334.6	173.8					393.2	402.8
2012	13-Jun-12	4	318.4	192.2					396	407.7
2012	13-Jun-12	5	315.1	173.2					397	408.5
2012	13-Jun-12	6	321.8	149.9					397.6	405.4
2012	13-Jun-12	7	324.5	122.9					388.2	400.6
2012	13-Jun-12	8	379.5	81.7					384.1	398.8
2012	13-Jun-12	9	492.9	119.4					374.3	399.8
2012	13-Jun-12	10	768	80.1					380.2	414.6
2012	13-Jun-12	11	1180.5	401					385.4	476
2012	13-Jun-12	12	755.8	893.8					387.1	522.5
2012	13-Jun-12	13	445.5	579.8					386.7	497.8
2012	13-Jun-12	14	561.9	625					382.7	498
2012	13-Jun-12	15	732.9	965.7					386.5	504.4
2012	13-Jun-12	16	871	1143.8					382.3	557.1
2012	13-Jun-12	17	807.7	1003.2					383.1	504.1
2012	13-Jun-12	18	564.9	733.7					387.2	475.6
2012	13-Jun-12	19	383.6	465.7					390.5	418.4
2012	13-Jun-12	20	290.5	425.9					392.1	420
2012	13-Jun-12	21	163.4	302.4					400.2	413.8
2012	13-Jun-12	22	156.7	356.4					397.4	417.6
2012	13-Jun-12	23	245.5	221.6					148.718	429.7



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	14-Jun-12	0	295.2	184.5						428.3
2012	14-Jun-12	1	283.2	129						428.8
2012	14-Jun-12	2	295.8	134.9						431.9
2012	14-Jun-12	3	293.6	118.3						427.9
2012	14-Jun-12	4	281.7	130.9						429.8
2012	14-Jun-12	5	280.6	132.6						426
2012	14-Jun-12	6	324.3	174.9						424.4
2012	14-Jun-12	7	494.9	119.2						428.1
2012	14-Jun-12	8	494.9	48.5						428.1
2012	14-Jun-12	9	552.2	154.9						429.1
2012	14-Jun-12	10	689.5	428.3						624.3
2012	14-Jun-12	11	787.5	422.9						773.2
2012	14-Jun-12	12	752.2	610						860.1
2012	14-Jun-12	13	840.1	1026.4						856.9
2012	14-Jun-12	14	1214.5	770.4						866.2
2012	14-Jun-12	15	955.5	544						847.4
2012	14-Jun-12	16	1073.1	564.5						854.1
2012	14-Jun-12	17	1055.8	525.2						848.1
2012	14-Jun-12	18	700.6	593.4						850.9
2012	14-Jun-12	19	399.3	303.6						816.5
2012	14-Jun-12	20	568.8	328.8						777.7
2012	14-Jun-12	21	437.8	156.5						620.1
2012	14-Jun-12	22	283	125.5						494.3
2012	14-Jun-12	23	342.1	127.1						452.6
2012	15-Jun-12	0	293.2	221.7						443.4
2012	15-Jun-12	1	234.2	142.5						439.1
2012	15-Jun-12	2	218.7	157						436
2012	15-Jun-12	3	177.2	129.5						435.8
2012	15-Jun-12	4	182.4	141						435.8
2012	15-Jun-12	5	172.1	128.6						433.1
2012	15-Jun-12	6	137.7	138.6						417.4
2012	15-Jun-12	7	192.9	117.8						574.1
2012	15-Jun-12	8	359.9	52.9						612
2012	15-Jun-12	9	696.5	160						697.6
2012	15-Jun-12	10	1228.2	361						812.7
2012	15-Jun-12	11	1536.1	528.5						780.1
2012	15-Jun-12	12	1423.8	1044.6						767.5
2012	15-Jun-12	13	1058.5	1249.9						762.7
2012	15-Jun-12	14	1201.5	1634.6						772.6
2012	15-Jun-12	15	1140	1536.7						705.1
2012	15-Jun-12	16	978.2	1346.1						712.5
2012	15-Jun-12	17	746.5	911.5						673.9
2012	15-Jun-12	18	712.4	1219.2						674.3
2012	15-Jun-12	19	871.6	1052.1						654.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-Jun-12	20	848.5	1226.1						646.8
2012	15-Jun-12	21	584.4	632.7						650.7
2012	15-Jun-12	22	318.3	460.1						608.2
2012	15-Jun-12	23	435.6	352.5						469.4
2012	16-Jun-12	0	245.4	368.1						355.8
2012	16-Jun-12	1	167.9	133.6						359.3
2012	16-Jun-12	2	192.3	383.4						348.8
2012	16-Jun-12	3	188.8	376.9						344.4
2012	16-Jun-12	4	170.2	399.4						410.2
2012	16-Jun-12	5	166.1	362.2						551
2012	16-Jun-12	6	165.2	319.6						399.9
2012	16-Jun-12	7	167.4	218.7						503.8
2012	16-Jun-12	8	128.8	53.8						612
2012	16-Jun-12	9	113.2	105.5						702
2012	16-Jun-12	10	131.3	381.5						710.3
2012	16-Jun-12	11	161.7	1035.8						712.7
2012	16-Jun-12	12	368.7	975.3						694.8
2012	16-Jun-12	13	313.6	345.8						676.8
2012	16-Jun-12	14	579.5	454.2						711.2
2012	16-Jun-12	15	1030.9	656						772.2
2012	16-Jun-12	16	1541.5	1220.7						780
2012	16-Jun-12	17	1236.9	942.4						766.5
2012	16-Jun-12	18	887.6	690.3						754.3
2012	16-Jun-12	19	653.2	434.3						758.4
2012	16-Jun-12	20	456.9	402						740.1
2012	16-Jun-12	21	300.2	267.4						712.1
2012	16-Jun-12	22	280.4	695.5						697.5
2012	16-Jun-12	23	271.8	475.8						627.6
2012	17-Jun-12	0	461.4	492.2						539.9
2012	17-Jun-12	1	176.3	423.2						375
2012	17-Jun-12	2	179	464						361
2012	17-Jun-12	3	146.4	478.9						384.9
2012	17-Jun-12	4	175.1	504.1						347.3
2012	17-Jun-12	5	166.2	497.1						379.5
2012	17-Jun-12	6	151.7	558.7						603.4
2012	17-Jun-12	7	168.4	245.4						695.4
2012	17-Jun-12	8	318.5	135.5						677
2012	17-Jun-12	9	245.4	255.4						681.9
2012	17-Jun-12	10	268.5	418						774.2
2012	17-Jun-12	11	303	352.4						795.3
2012	17-Jun-12	12	233.8	412						856.3
2012	17-Jun-12	13	257.8	136						1253.2
2012	17-Jun-12	14	327.4	309.3						1657.8
2012	17-Jun-12	15	359	684.1						1588.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	17-Jun-12	16	375.3	821.2						1303.7
2012	17-Jun-12	17	397.3	265.7						1231.2
2012	17-Jun-12	18	420.2	254.7						1366.2
2012	17-Jun-12	19	416.6	237.5						1771.4
2012	17-Jun-12	20	450.9	185.3						2214.3
2012	17-Jun-12	21	351.5	167						2383.4
2012	17-Jun-12	22	359.7	138.4						2478.2
2012	17-Jun-12	23	353.5	337.7						2486.8
2012	18-Jun-12	0	311.7	498.4						1253.4
2012	18-Jun-12	1	192.9	505.5						1685.3
2012	18-Jun-12	2	209.4	546.6						1625.3
2012	18-Jun-12	3	256.2	456.1						1362.7
2012	18-Jun-12	4	254.9	498.9						1247.5
2012	18-Jun-12	5	251.8	443.6						450.5
2012	18-Jun-12	6	258	515.3						513.4
2012	18-Jun-12	7	389.3	339.6						536.3
2012	18-Jun-12	8	485.4	98.3						502.8
2012	18-Jun-12	9	510.4	157.8						532.4
2012	18-Jun-12	10	587.3	196.5						621.9
2012	18-Jun-12	11	727.3	295.9		0				915.4
2012	18-Jun-12	12	974.1	463.2		0				1157
2012	18-Jun-12	13	851.3	921.3		0				969.4
2012	18-Jun-12	14	883.7	833.6		0				991.5
2012	18-Jun-12	15	916.2	1131.7		0	0			1202.7
2012	18-Jun-12	16	985.4	707		0	0			1228.1
2012	18-Jun-12	17	708.7	1025.8		0	175.8		0	812.9
2012	18-Jun-12	18	423.6	936.6		0	291		0	764.5
2012	18-Jun-12	19	475.8	1037.6		0	435.1		16.6	582.5
2012	18-Jun-12	20	566.7	879.7		0	453.4		45.7	512.9
2012	18-Jun-12	21	454.7	732.6	0.01	0	504.8		0.594	403.2
2012	18-Jun-12	22	345	391.1	0.052	0	829.9			414.1
2012	18-Jun-12	23	275.3	487	0.065	0	1518.4			423.6
2012	19-Jun-12	0	263.1	252.7	0.06	0	1971.3			415.1
2012	19-Jun-12	1	228.1	153.7	0.051	0	2144.9			416.8
2012	19-Jun-12	2	242.5	153.9	0.039	0	2134.9			414.7
2012	19-Jun-12	3	266.6	129.9	0.052	0	2037.7			420.9
2012	19-Jun-12	4	261.3	136.3	0.061	0	2064.1			400.3
2012	19-Jun-12	5	236.5	116.4	0.065	0	2076.8			406.4
2012	19-Jun-12	6	257.8	133.1	0.063	0	2090.3			399
2012	19-Jun-12	7	252.6	105.4	0.053	21.6	2148.6			398.3
2012	19-Jun-12	8	229.2	82.5	0.098	486.8	2476.1			410.1
2012	19-Jun-12	9	266.8	184.6	0.258	622.2	2698.2			410.8
2012	19-Jun-12	10	459.8	366.5	0.244	638.8	2914.1			432.9
2012	19-Jun-12	11	672.5	569.2	0.286	557.8	3025.8			415.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-Jun-12	12	1163.7	1170.2	0.323	763	3088.3			429.8
2012	19-Jun-12	13	1530.9	1242.6	0.327	609.6	3101.7			430.2
2012	19-Jun-12	14	1206.4	1576.8	0.516	993.9	3280.3			511
2012	19-Jun-12	15	1035.2	1396	0.785	1515.4	3346.2			659.7
2012	19-Jun-12	16	1126.9	834	0.792	1575.9	3344.3			769.8
2012	19-Jun-12	17	1039.6	625.2	0.859	1776.1	3360.5			773
2012	19-Jun-12	18	675.8	550.1	0.677	1876.6	3230.1			803.1
2012	19-Jun-12	19	781.6	455.8	0.555	1963.5	3137.9			774.8
2012	19-Jun-12	20	785.1	527.2	0.498	1986.2	3216.2			781.6
2012	19-Jun-12	21	626.4	387	0.418	1698.7	2971.6			779.5
2012	19-Jun-12	22	480.2	324	0.389	1012.8	2486.9			868.1
2012	19-Jun-12	23	661.8	388.3	0.118	511.7	2211.3			859.3
2012	20-Jun-12	0	549.8	390	0.04	528.6	1989.9			803.7
2012	20-Jun-12	1	397.5	249.9	0.04	513.4	1990.6			786.8
2012	20-Jun-12	2	356.2	245.6	0.04	514.2	1978.3			780.5
2012	20-Jun-12	3	372.2	187.1	0.039	525	1947.4			778.3
2012	20-Jun-12	4	380.1	191.3	0.039	599.4	1940	0.068		759.2
2012	20-Jun-12	5	394.7	175.4	0.042	573.2	1945.5	0.097		634.1
2012	20-Jun-12	6	511.5	179.9	0.122	564.6	1910.3	0.125		517.3
2012	20-Jun-12	7	1143.3	142.5		588.9	2041.9	0.091		394.8
2012	20-Jun-12	8	936.8	209.1		823	2433.4	0.034		406.6
2012	20-Jun-12	9	935.1	340.2		1823.5	2748.7	0.035		389.4
2012	20-Jun-12	10	1002	439.2	0.29	2238.4	3030.6			376.4
2012	20-Jun-12	11	1023.9	454.8	0.775	2126	3098.1	151.5		385.8
2012	20-Jun-12	12	947.3	497.4	0.777	2100	3099.6	469.1		392.9
2012	20-Jun-12	13	860	535.7	0.866	2178.2	3090.3	592.7		387.3
2012	20-Jun-12	14	1020.6	693.8	0.876	2118.5	3088.7	698.4		407.8
2012	20-Jun-12	15	1075.7	536.4	0.875	2148.5	3062.3	361		406.6
2012	20-Jun-12	16	832.9	614.6	0.873	2362.3	3031.2	368.7		411.6
2012	20-Jun-12	17	1109	482.9	0.842	2477.3	2999.5	366.1		410.1
2012	20-Jun-12	18	1134.8	635.5	0.775	2426.5	2991.5	367.7		412
2012	20-Jun-12	19	842.7	377.9	0.776	2163.1	3002.4	368.8		414
2012	20-Jun-12	20	734.5	464.7	0.776	2173.6	2990.7	401.5		410.3
2012	20-Jun-12	21	774.8	343.8	0.537	1527.3	2899.5	328.4		418.7
2012	20-Jun-12	22	1018.4	457.3	0.278	999.5	2786.7	168.7		424.3
2012	20-Jun-12	23	692.6	310.2	0.218	487.1	2393.3	165.9		422.3
2012	21-Jun-12	0	448.6	239.5	0.216	500.8	1971	0.047		418.2
2012	21-Jun-12	1	456.9	125.9	0.212	455.9	1829.7	0.085		420.6
2012	21-Jun-12	2	558	297.3	0.212	452.2	1875.3	0.094		415.7
2012	21-Jun-12	3	367	288.1	0.211	459.2	1860.5	0.094		414.3
2012	21-Jun-12	4	323.7	271.1	0.211	452.9	1849.5	0.094		412.6
2012	21-Jun-12	5	314	201.9	0.209	454.4	1865.1	0.094		404.6
2012	21-Jun-12	6	369.5	270.8	0.207	449.9	1914.4	0.094		422.2
2012	21-Jun-12	7	727.2	220	0.212	596	2316.4	0.04		412.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-Jun-12	8	958.9	198.9	0.359	1325.1	2658.3	0.031		410.2
2012	21-Jun-12	9	1303.9	826.7	0.67	1931	2842.3	114.956		412
2012	21-Jun-12	10	1157.5	1537.4	0.705	2264.9	2898	331.6		434.4
2012	21-Jun-12	11	1169.3	1428.7	0.741	2161.4	2868.3	433.5		417.2
2012	21-Jun-12	12	1181.8	1359.4	0.78	2057.4	2886.8	461.1		401
2012	21-Jun-12	13	1310.4	580.3	0.795	2089.9	2886.7	465.9		449.1
2012	21-Jun-12	14	1335.8	595.8	0.813	2047	2877	455.2		448.5
2012	21-Jun-12	15	1354.4	482.3	0.812	2037.5	2865.6	459.1		548.7
2012	21-Jun-12	16	1379.3	615.5	0.812	2073.2	2859.6	455.1		579
2012	21-Jun-12	17	1430	497.4	0.817	2122	2867.1	451		714.4
2012	21-Jun-12	18	1178.8	694.5	0.77	2208.1	2876.7	449.2		733.7
2012	21-Jun-12	19	1058.2	444.2	0.742	2181.4	2880.3	449.1		725.8
2012	21-Jun-12	20	1138.9	437.9	0.757	1922.3	2877.5	446.9		752.8
2012	21-Jun-12	21	1103.1	356.3	0.536	1627.7	2772	432		685.3
2012	21-Jun-12	22	655.3	276.4	0.196	1197.9	2487.9	113.844	478.6	691.2
2012	21-Jun-12	23	555.9	233		1139.2	2416.9		481.9	591.6
2012	22-Jun-12	0	764.5	203.8		554.4	2031.2		563.7	549.3
2012	22-Jun-12	1	596.9	160.7	0.016	447.8	1788.8		504.5	554.1
2012	22-Jun-12	2	562	312.6	0.031	422	1800		539.8	560.9
2012	22-Jun-12	3	376.6	211.1	0.045	431.7	1779.9		589.5	552.3
2012	22-Jun-12	4	285.6	203.1	0.039	435.2	1785.3		491.2	494.4
2012	22-Jun-12	5	354	169.4	0.038	434.7	1859.9		472.9	392.2
2012	22-Jun-12	6	399.6	215.4	0.065	438.1	1996.1		473.5	399.9
2012	22-Jun-12	7	506.5	204.6	0.217	480.4	2277.5		475.9	400.3
2012	22-Jun-12	8	798.3	95.7	0.273	601.3	2566		476.6	435.7
2012	22-Jun-12	9	1025.3	489.2	0.41	1378.9	2723.9		481.4	658.5
2012	22-Jun-12	10	1464.1	1161.6	0.62	1872.4	2766.1		477.7	843.8
2012	22-Jun-12	11	1866.1	1091.4	0.497	1784.1	2532.6		52.3	781.7
2012	22-Jun-12	12	885.8	1386.9	0.592	1987.8	2719.4		53.7	774.6
2012	22-Jun-12	13	808.7	891.3	0.691	2073.8	2751.5		55.8	793.3
2012	22-Jun-12	14	835.2	1144	0.65	2001.3	2744.7		49.7	797.4
2012	22-Jun-12	15	904.5	1129.8	0.474	1926.9	2784.5		61.1	832
2012	22-Jun-12	16	459.6	903.6	0.515	1613.8	2844.3		94.1	817.4
2012	22-Jun-12	17	363.1	727	0.454	1461.4	2809.2		95	797.9
2012	22-Jun-12	18	389.3	779	0.33	927	2618.9		114.7	815.3
2012	22-Jun-12	19	269.4	460.1	0.292	437.7	2449.1		182.7	818.6
2012	22-Jun-12	20	84	373.9	0.027	435.9	2276.3		210.6	820.3
2012	22-Jun-12	21	130.9	150.4		434.6	2207		269.2	808.1
2012	22-Jun-12	22	315.1	94.6		445.1	1930.2		345.6	738.9
2012	22-Jun-12	23	336.3	160.4		434.1	1912.4		362.6	607.4
2012	23-Jun-12	0	266.9	201		463	2008.3		359.4	581.2
2012	23-Jun-12	1	229.3	144		460.2	1950.7		355.7	558.5
2012	23-Jun-12	2	216.2	142.9		450.9	2032.5		340.7	492.7
2012	23-Jun-12	3	198.6	120		437.4	1921.9		347.3	418.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	23-Jun-12	4	176.2	111.5		429.4	1867		363.3	415.7
2012	23-Jun-12	5	199.7	104.4		431.3	1860.6		364	417
2012	23-Jun-12	6	258.9	158.5		437.8	1894		382.1	424.4
2012	23-Jun-12	7	284.7	109.9		434.2	1867.5		320.7	536
2012	23-Jun-12	8	323.4	14.5		510.6	1880.1		306.1	620.4
2012	23-Jun-12	9	604.4	62.5		1192	1850.1		298.9	816
2012	23-Jun-12	10	1040.8	207.3		1903.2	1893.8		305.3	725.1
2012	23-Jun-12	11	1047.1	543.6		2196.5	1873.8		289.9	808.5
2012	23-Jun-12	12	1121.9	1106.3		2172.8	1889.2		313.3	835.2
2012	23-Jun-12	13	1260.7	1155.8		1954.7	2050			1153.6
2012	23-Jun-12	14	936.9	1280		2042.7	2496.3			1076
2012	23-Jun-12	15	1170.6	1298.4		2055.7	2822.7			816.4
2012	23-Jun-12	16	1149	1016.4		2144.1	2874.5			806.4
2012	23-Jun-12	17	1029.3	579.5	0.024	1921.1	3012.1			729.7
2012	23-Jun-12	18	788.3	557.2		1609.8	2868.4			732.4
2012	23-Jun-12	19	471.2	390.5		1033.7	2656.2			790.6
2012	23-Jun-12	20	612.7	431.1		671.6	2603.1			784.5
2012	23-Jun-12	21	449.4	319		670.5	2340.1			617.3
2012	23-Jun-12	22	184.9	215.3		629.5	2124.6			649.6
2012	23-Jun-12	23	103.9	95.3		672.3	1848.2			468.6
2012	24-Jun-12	0	81.1	68.8		639.1	1839			460
2012	24-Jun-12	1	72.1	101.7		603.3	1852.7			464.8
2012	24-Jun-12	2	89.2	115.5		615.9	1865.2			461.7
2012	24-Jun-12	3	103.4	124.3		586.5	1873			457.8
2012	24-Jun-12	4	98.2	120.2		574.4	1878.8			456.3
2012	24-Jun-12	5	129.2	142.9		309.8	1878.1			455.5
2012	24-Jun-12	6	276.9	441.3		5.43	1875.6			457.6
2012	24-Jun-12	7	284.7	167.9			1870.9			457.4
2012	24-Jun-12	8	272.8	18.9			2094.7			452.3
2012	24-Jun-12	9	314.5	54.3			2410.8			514.3
2012	24-Jun-12	10	488.4	100.8			2753.8			592.6
2012	24-Jun-12	11	912.3	207.6			2991.2			616.5
2012	24-Jun-12	12	1074.3	532.4			3056.4			793
2012	24-Jun-12	13	1742.8	372			3049.3			855.7
2012	24-Jun-12	14	2133.4	868			3054.3			948.3
2012	24-Jun-12	15	968.4	913.9			3093.4			1076.9
2012	24-Jun-12	16	754.7	1125.2			3164.9			846.9
2012	24-Jun-12	17	802.4	984.2			3134.6			782.3
2012	24-Jun-12	18	784.2	1085.5			3152.3			794.5
2012	24-Jun-12	19	800.3	1144.2			3153.9		0	696.6
2012	24-Jun-12	20	902.9	1210.1			3207.7		0	657.3
2012	24-Jun-12	21	606.3	774.8			3017.5		0	571.9
2012	24-Jun-12	22	351.9	547.8			2770		26.2	474.4
2012	24-Jun-12	23	339.7	380.6			2447.4		55.6	446.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	25-Jun-12	0	271.1	316.3			2096.6		62.4	452.1
2012	25-Jun-12	1	175.5	234.6			1952.3		66.2	485.2
2012	25-Jun-12	2	144.1	268.2			1937.7		61.5	446.5
2012	25-Jun-12	3	162.5	139.2			1942.2		63.6	452.5
2012	25-Jun-12	4	166.3	147.6			2061		67	454.7
2012	25-Jun-12	5	147.2	133.3			2252.2		72.3	438.4
2012	25-Jun-12	6	205.9	161.4			2461.8		69.9	441.2
2012	25-Jun-12	7	319	145.4			2739		74.9	433.7
2012	25-Jun-12	8	696.7	41.2			2950.1		98.2	429.6
2012	25-Jun-12	9	1117.4	111.4			3084.1		117.7	446.8
2012	25-Jun-12	10	1306.4	252.6			3145.5		172.6	438.3
2012	25-Jun-12	11	1149.9	338.1			3149.8		196.5	461.7
2012	25-Jun-12	12	1186.5	478.7			3136		346.3	535.3
2012	25-Jun-12	13	1205.6	500.9			3103		404.9	683.9
2012	25-Jun-12	14	1240.8	671.1			3151.7		407.8	792.1
2012	25-Jun-12	15	1106.7	539.5			3134.6		408.5	773.4
2012	25-Jun-12	16	1188	727			3099.1		404.7	772.3
2012	25-Jun-12	17	1189.8	655.4			2975.9		386.1	778.2
2012	25-Jun-12	18	1175.8	606.8			2739.5		396.2	751.9
2012	25-Jun-12	19	984.3	308			2408.6		392.3	716.3
2012	25-Jun-12	20	778.9	305.8			2104.3		395	716.7
2012	25-Jun-12	21	519.4	171.2			1931.5		383.8	625.9
2012	25-Jun-12	22	380.7	165.6			1881.9		364.7	471.8
2012	25-Jun-12	23	356.5	105.8			1888.8		378.5	438.4
2012	26-Jun-12	0	267.2	85.3			1878		397	422.5
2012	26-Jun-12	1	178.1	84			1873.9		393.4	416.7
2012	26-Jun-12	2	138.1	60.2			1867.2		392.5	418.9
2012	26-Jun-12	3	125.7	57.3			1860.9		390.6	420.3
2012	26-Jun-12	4	110.8	19.836			1865.7		391.9	420.8
2012	26-Jun-12	5	127.2				1866.5		395.3	421.3
2012	26-Jun-12	6	243.7				1862		391.3	419.4
2012	26-Jun-12	7	758.2	9.18			1825.9		393	552.1
2012	26-Jun-12	8	759.2	1.6			1939.5		389	723.8
2012	26-Jun-12	9	665.2	0			2187.8		388.7	559
2012	26-Jun-12	10	517.5	0			2028.1		393.5	598.8
2012	26-Jun-12	11	440.3	0			2217.3		393.2	649.5
2012	26-Jun-12	12	446.2	0			2305		392.3	832.4
2012	26-Jun-12	13	457.2	0			2425.9		437.6	808.8
2012	26-Jun-12	14	483.6	0			2637.7		531.8	793.6
2012	26-Jun-12	15	629.9	0			2976.2		505.4	894.8
2012	26-Jun-12	16	921.6	0			3158.4		493.8	924.3
2012	26-Jun-12	17	864.5	0			3019.3		512.2	803.8
2012	26-Jun-12	18	578.6	0			2653.5		501.7	764.3
2012	26-Jun-12	19	465.1	1.1			2558.5		503.8	727.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-Jun-12	20	567.9	0			2713.7		551	654.9
2012	26-Jun-12	21	477.6	2.3			2450.7		496	726.9
2012	26-Jun-12	22	335.7	2.4		0	2099.7		486.4	453.5
2012	26-Jun-12	23	212.1	4.7		0	1937.6		470.7	192.7
2012	27-Jun-12	0	311.6	9.9		0	1951.8		502	4.071
2012	27-Jun-12	1	421.8	40		0	1945.8		511	
2012	27-Jun-12	2	399.5	62.9		0	1947.3		515.1	
2012	27-Jun-12	3	413.9	83		0	1939.9		508.9	
2012	27-Jun-12	4	396.5	111		0	1935		502	
2012	27-Jun-12	5	453.3	128.3		0	1927.9		501.6	
2012	27-Jun-12	6	469.8	172.2		0	1920.8		510	
2012	27-Jun-12	7	462.5	112.8		0	1889		521.1	
2012	27-Jun-12	8	456.1	21.7		0	2202.2		527	
2012	27-Jun-12	9	439.7	82.5		0	2259.4		544.7	
2012	27-Jun-12	10	515.8	243.4		129.7	2216.5		596.2	
2012	27-Jun-12	11	272.2	609.6		425.9	2485		642.8	
2012	27-Jun-12	12	236.4	982.1		475.1	2779.8		620.8	
2012	27-Jun-12	13	435.8	422.3		446.7	2992		721.1	
2012	27-Jun-12	14	689.3	437.5		460.9	3127.1		717.9	
2012	27-Jun-12	15	970.6	449.4		456.4	3155.8		711	
2012	27-Jun-12	16	1068.8	617.6		461.7	3169.9		701.5	
2012	27-Jun-12	17	1023.1	634.2		694.1	3165.7		694.2	
2012	27-Jun-12	18	1251.3	723.8		943	3065.8		690.9	
2012	27-Jun-12	19	1065.9	647.7		646.7	2979.4		687.8	
2012	27-Jun-12	20	856.4	547.1		561.4	2910		712.6	
2012	27-Jun-12	21	481.3	320.9		524.4	2621		674.5	
2012	27-Jun-12	22	362.9	246.4	0.006	519.7	2273.7		541.7	
2012	27-Jun-12	23	226.9	144	0.063	518.5	1953.1		496.2	
2012	28-Jun-12	0	155.6	219.8	0.064	504.5	1870.4		503.8	
2012	28-Jun-12	1	98.9	269	0.072	461.8	1838.2		517.7	
2012	28-Jun-12	2	85.9	272.5	0.076	480.5	1886.8		521.2	
2012	28-Jun-12	3	83.2	244.5	0.065	475.3	1880.9		509.9	
2012	28-Jun-12	4	72.3	242.2	0.065	476.8	1886.7		503.9	
2012	28-Jun-12	5	53.8	200.2	0.054	499.4	1874.7		498.1	
2012	28-Jun-12	6	61.1	213.2	0.052	509	1891.2		489.4	
2012	28-Jun-12	7	71.4	141.3	0.063	548.6	1878.2		487.2	
2012	28-Jun-12	8	77.9	34.1	0.07	556.1	2177.9		518	
2012	28-Jun-12	9	120.1	195.7	0.193	668	2542.5		573	
2012	28-Jun-12	10	276.3	854.9	0.22	728.7	2633.3		706.3	
2012	28-Jun-12	11	636.2	1053	0.22	713.4	2730		713.5	
2012	28-Jun-12	12	808.6	652.3	0.24	916.9	2882.1		713.6	
2012	28-Jun-12	13	945.1	591.2	0.406	1588	3028.2		712.9	
2012	28-Jun-12	14	1143.5	575.4	0.666	2298.4	3046.1		705.2	
2012	28-Jun-12	15	1063.7	479	0.792	2458	3080.3		693.6	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	28-Jun-12	16	1015	565.1	0.776	2453.7	3089.3		596.6	
2012	28-Jun-12	17	1096.4	637.7	0.775	2438.6	3072.8		532.4	
2012	28-Jun-12	18	1159.1	733.3	0.493	2437.1	3073.6		567.4	
2012	28-Jun-12	19	1171.2	647.7	0.371	2370.6	3063.8		511.8	
2012	28-Jun-12	20	1142.8	741.6	0.443	2296.4	3074.9	0.046	488	2
2012	28-Jun-12	21	893.3	541.1	0.294	2239.6	3013.7	0.068	468.8	6.2
2012	28-Jun-12	22	1033.7	564.9	0.055	1991.4	2916.2	0.094	468.6	37.1
2012	28-Jun-12	23	956.3	464.2		1519.9	2780.4	0.094	533.9	26.6
2012	29-Jun-12	0	604.7	380		614.4	2290.2	0.092	531.1	27.5
2012	29-Jun-12	1	367	239.6		502.1	1938.4	0.052	534.4	20
2012	29-Jun-12	2	258.6	242.3		508.7	1889.2	0.055	514.4	170.6
2012	29-Jun-12	3	615.7	596.7	0.016	464.1	1896.3	0.047	509.8	290.6
2012	29-Jun-12	4	310.3	797.8	0.036	467.4	1903.1	0.047	503.8	482.8
2012	29-Jun-12	5	291.7	835.4	0.04	465.2	1967.2	0.047	500.9	489.5
2012	29-Jun-12	6	312.4	873.5	0.037	466.7	2059	0.047	490.3	614.6
2012	29-Jun-12	7	442.4	631.2	0.06	615.1	2232.6	0.065	497.1	621.2
2012	29-Jun-12	8	540.3	724.6	0.244	1217.5	2577.6	69.197	530.2	541.7
2012	29-Jun-12	9	857	1450.5	0.285	1681	2897.5	360.9	588.9	656.6
2012	29-Jun-12	10	1082.7	2035.8	0.403	1985	3004.5	443.9	656.8	727.4
2012	29-Jun-12	11	910.1	950.7	0.719	2213.6	3066.4	444.6	727.6	758.7
2012	29-Jun-12	12	564.5	594.4	0.822	2326.2	3084.9	445	653.6	741.1
2012	29-Jun-12	13	563.3	392.5	0.858	2307.5	3095.9	452.8	702.6	789.5
2012	29-Jun-12	14	762.9	394	0.884	2314.7	3142.7	469	689.7	763.6
2012	29-Jun-12	15	1142.3	485.3	0.88	2325.1	3149.1	579.4	683.1	760.3
2012	29-Jun-12	16	1229.9	667.8	0.881	2340.8	3135.4	791.2	687.4	768
2012	29-Jun-12	17	1275.4	611.1	0.85	2348.7	3148.8	915.9	703.3	780.5
2012	29-Jun-12	18	1198.4	794.3	0.767	2317.5	3136.4	457.9	684.5	758.8
2012	29-Jun-12	19	1271.9	581.8	0.864	2353.5	3131.2	432.2	627.8	726.7
2012	29-Jun-12	20	548.9	734.7	0.777	2383.6	3057.1	431.7	679.6	774.4
2012	29-Jun-12	21	472.8	349.5	0.533	2286.8	2878.3	426	543.8	616.7
2012	29-Jun-12	22	467.6	570.3	0.405	1980	2622.7	383.7	518.2	463.1
2012	29-Jun-12	23	302.3	621.1	0.3	1514.5	2330.2	177.23	538.8	440.7
2012	30-Jun-12	0	222.3	566.1	0.068	846.9	1964	61.447	523.4	453.2
2012	30-Jun-12	1	164.1	369		498.3	1900.7		532.6	454.3
2012	30-Jun-12	2	165.6	402.2		459.7	1883.4		538.4	452.9
2012	30-Jun-12	3	168.9	371.4		466.1	1876.4		549.8	453.7
2012	30-Jun-12	4	157.5	379.5		467.3	1882		529.9	453.8
2012	30-Jun-12	5	149.5	350.3		489.8	1879.8		521.5	447.4
2012	30-Jun-12	6	156.6	342.6		482.1	1883		505.9	443.3
2012	30-Jun-12	7	167.2	203.8	0.046	480.3	1812.2		507.1	447.4
2012	30-Jun-12	8	154.1	104	0.083	482.5	1876.1		500.3	447
2012	30-Jun-12	9	154.6	283.4		484.4	1958.2		503.7	495.2
2012	30-Jun-12	10	184	614		484.1	2285		557.9	630.1
2012	30-Jun-12	11	263.4	994.3		489	2507.2		605.3	699

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	30-Jun-12	12	330.5	765.1		494.6	2791.3		684.1	793
2012	30-Jun-12	13	535.6	558.3		628.5	2907.7		694	781.6
2012	30-Jun-12	14	847.7	598.4		1534	2985.4		692.6	768.2
2012	30-Jun-12	15	1166.3	574		2148.2	2963		681.7	762.2
2012	30-Jun-12	16	1184.4	723.1		2326.1	2951.4		666.9	741.1
2012	30-Jun-12	17	1274.4	729.3		2304.8	2929.8		648.4	742.3
2012	30-Jun-12	18	1440.2	1050.8		2339.3	2915.1		653.6	725.4
2012	30-Jun-12	19	1160.1	781.1		2107.2	2715.8		660.8	733
2012	30-Jun-12	20	805.3	742		1624.5	2541.9		619.1	704.1
2012	30-Jun-12	21	564.3	405		1168.4	2291.3		550.8	594.8
2012	30-Jun-12	22	420.8	351.8		574.9	2053.8		483.6	504.8
2012	30-Jun-12	23	771.4	221		509.7	1882.1		497.4	466.5
2012	1-Jul-12	0	840.7	155.3		521.4	1880.2		482.1	384.2
2012	1-Jul-12	1	686	91.5		512	1837.3		481.5	395
2012	1-Jul-12	2	687.2	91.7		520.8	1830.6		490.7	400.2
2012	1-Jul-12	3	680.8	95.1		517.7	1847.4		488.7	392.4
2012	1-Jul-12	4	664.5	81.1		550.6	1831.7		497.9	391.8
2012	1-Jul-12	5	595.9	86.3		522.5	1826.7		481.2	394.4
2012	1-Jul-12	6	578.4	74.2		527.9	1831.9		473	394.1
2012	1-Jul-12	7	539.4	59.3		521.2	1861.5		487.3	402
2012	1-Jul-12	8	413.3	8.2		530.4	2055.8		488.1	399.8
2012	1-Jul-12	9	454.4	11.3		882.9	2245.8		493.3	457.5
2012	1-Jul-12	10	534.4	25.2		1514.3	2557		486.9	468.7
2012	1-Jul-12	11	787.2	134.2		1591.9	2758.2		541.1	593.4
2012	1-Jul-12	12	1082.3	427.6		1839	2883.9		563.3	661.5
2012	1-Jul-12	13	1329.4	389.4		2127.4	2904.5		599.1	706.8
2012	1-Jul-12	14	1480.5	663.5		2243.7	2950.2		593.2	779.7
2012	1-Jul-12	15	1372.8	570.5		2248.8	2993.8		551.1	664.7
2012	1-Jul-12	16	1223.8	536.5		2265.6	2982.6		481.8	391.2
2012	1-Jul-12	17	1300.2	616.6		2085.4	2998.3		487.9	410.8
2012	1-Jul-12	18	1616.4	956.3		2118.4	2993.3		522.6	488.1
2012	1-Jul-12	19	1424.8	749.9		2023.4	2923.7		500.7	555.6
2012	1-Jul-12	20	1154.7	624.1		1874.9	2930.9		528.3	663.3
2012	1-Jul-12	21	1253.8	474.3		1037.7	2751.3		519.8	514.4
2012	1-Jul-12	22	704.7	402.2		588.3	2707.2		523.7	378.5
2012	1-Jul-12	23	467.4	878.5		513.7	2359.8		530	418.2
2012	2-Jul-12	0	339.4	893.8		526.8	1964.7		521.9	416.1
2012	2-Jul-12	1	248.7	582.4		530.7	1844.7		514.5	420.8
2012	2-Jul-12	2	198.2	411.5		535.6	1834.8		521.5	431.4
2012	2-Jul-12	3	375	330	0.037	538.8	1826.4		523.1	430.3
2012	2-Jul-12	4	607.9	384.1	0.055	541.4	1841.4		519.1	433.5
2012	2-Jul-12	5	656.8	437.9	0.052	550.8	1826.7		511.1	511
2012	2-Jul-12	6	610.8	477.3		517.3	1864.2		498.7	579.3
2012	2-Jul-12	7	255.2	328.2		512.4	2069.1		502.3	579.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	2-Jul-12	8	332	422.6		750.5	2419		505.1	584.7
2012	2-Jul-12	9	465	1097.6	0.054	1552.8	2688.6		519.9	596.6
2012	2-Jul-12	10	841.4	42.6	0.276	2153.9	2738.4		628.8	758.4
2012	2-Jul-12	11	1429.2	149.5	0.416	2172.5	2877.8		670.2	809
2012	2-Jul-12	12	1581.1	260.7	0.713	2168.6	2916.7		751.4	856.2
2012	2-Jul-12	13	1519.6	416.4	0.885	2196.7	2938.5		729.8	852.3
2012	2-Jul-12	14	1609.4	628.6	0.779	2220.4	2937.3		739.6	834.8
2012	2-Jul-12	15	1462.9	718.9	0.806	2226.8	2933.9		740	843.3
2012	2-Jul-12	16	1502.9	788.2	0.806	2210.4	2955.4		730.1	844
2012	2-Jul-12	17	1491.2	792.6	0.823	2195	2976		740.9	842
2012	2-Jul-12	18	1379.6	813.1	0.683	2190.1	2951.7		726.4	839
2012	2-Jul-12	19	1211.8	711.6	0.435	2197.9	2963.1		712.5	824.4
2012	2-Jul-12	20	1221.2	699.7		2197.9	2952.1		714.3	815.7
2012	2-Jul-12	21	972.5	618.7		1965.8	2756.8		662.5	722.3
2012	2-Jul-12	22	768.6	667.2		1266.1	2631.6		523.1	563.2
2012	2-Jul-12	23	450.9	303.8		637.6	2288.7		508.9	565.3
2012	3-Jul-12	0	258.1	242.3		515.7	1922.6		507.8	504
2012	3-Jul-12	1	189.8	186.7		507.5	1845.8		506.8	456.6
2012	3-Jul-12	2	160.8	151.7		509.1	1816		528.7	449.9
2012	3-Jul-12	3	183.9	120.5		516.1	1819.7		536.8	445.4
2012	3-Jul-12	4	174.2	116.6		517	1850		539.8	443.2
2012	3-Jul-12	5	170.5	110.3		517.2	1868.1		526.2	445.1
2012	3-Jul-12	6	205.1	116.4		528.8	2025.1		516.4	465.8
2012	3-Jul-12	7	272.5	119.8		453.2	2447.5		522.6	490.3
2012	3-Jul-12	8	346.9	70.4		729.8	2660.5		725.8	649.4
2012	3-Jul-12	9	515.9	311.8	0.234	1043.3	2762.4		725	822.6
2012	3-Jul-12	10	974.2	595.1	0.443	1462.5	2918.3		719.4	815.6
2012	3-Jul-12	11	1250.3	781	0.739	1685.1	2920.4		735.1	840.4
2012	3-Jul-12	12	1213.9	760.6	0.822	2147.4	2945.4		675	780.6
2012	3-Jul-12	13	1402.5	822.8	0.777	2211.5	2933.4		586.1	800.8
2012	3-Jul-12	14	1336.4	904.5	0.801	2202.4	2902.5		696.3	863.8
2012	3-Jul-12	15	1290.5	834.3	0.854	2157.5	2901		752.3	889.8
2012	3-Jul-12	16	1369.2	872.7	0.76	2169	2918.3		746.6	857.6
2012	3-Jul-12	17	1339.9	799.5	0.609	2167.1	2858.7		684.7	792.2
2012	3-Jul-12	18	1284.5	816	0.405	1952.9	2765.4		630.6	784.9
2012	3-Jul-12	19	1381.3	771.3	0.333	1399.5	2779.6		771.8	848.5
2012	3-Jul-12	20	1527	890.2	0.334	1689.2	2869.5		749.2	812.1
2012	3-Jul-12	21	1225.8	754.3	0.281	1370.2	2627.6		620.4	656.9
2012	3-Jul-12	22	767.7	678.8		652.9	2417.8		502.4	491.5
2012	3-Jul-12	23	383.2	368.6		466.6	2069.5		499.9	433
2012	4-Jul-12	0	283.3	281.1		440	1869.2		527.7	453
2012	4-Jul-12	1	204.3	252.5		439.2	2047.3		527.1	454.8
2012	4-Jul-12	2	161.5	229.4		440.9	1820		547.9	429
2012	4-Jul-12	3	171.7	127.6		444.6	1777.8		515.7	430.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-Jul-12	4	157.1	109.5		446.7	1773.9		508.3	445.4
2012	4-Jul-12	5	141.3	97		445.9	1766.1		514.7	449.9
2012	4-Jul-12	6	159.5	83.1		447.3	1767.6		500.4	447.7
2012	4-Jul-12	7	188.1	72.6	0.03	431.5	1831.4		536.7	527.9
2012	4-Jul-12	8	193.9	14.9	0.044	522.6	2147.8		580	708
2012	4-Jul-12	9	283.1	51.2	0.054	1167.3	2531		725.9	854.7
2012	4-Jul-12	10	516.2	89.9	0.198	1864	2785.7		738.3	901.1
2012	4-Jul-12	11	916.7	259.2	0.415	2139.2	2860.5		727.6	904.4
2012	4-Jul-12	12	1088.4	414.4	0.562	2181.2	2830.1		720.4	853.1
2012	4-Jul-12	13	1146.7	547.4	0.723	2189.7	2790.7		726.6	854.5
2012	4-Jul-12	14	1514.4	855.8	0.834	2191.3	2824.3		740.5	838.8
2012	4-Jul-12	15	1139.2	870.3	0.801	2167.3	2806.2		748.1	859.5
2012	4-Jul-12	16	685.2	1032.1	0.515	2141.8	2906.7		794.8	852.3
2012	4-Jul-12	17	667.5	903.7		2100.3	2941.8		787.7	839.8
2012	4-Jul-12	18	621.4	1026.2		1921.3	2952.9		775.5	855.4
2012	4-Jul-12	19	524.7	680.4		1919.5	2973.4		769.3	856.2
2012	4-Jul-12	20	492.2	666.9		1937.5	2984.8		717.8	816.3
2012	4-Jul-12	21	511.2	555.2		1864.6	2824.6		557.9	752.7
2012	4-Jul-12	22	582.9	680.4		2015.2	2601.5		509.6	511.2
2012	4-Jul-12	23	569.2	762.6		1916.4	2554.1	0.034	499.7	423.2
2012	5-Jul-12	0	426.2	606.3		1167	2278.9	0.062	543	464
2012	5-Jul-12	1	265.7	293.4		673	1999	0.065	549.1	566.4
2012	5-Jul-12	2	149.1	245.7		577.8	1859.1	0.088	531.3	563.2
2012	5-Jul-12	3	129.1	124.5		515.4	1828.5	0.094	527.6	558.8
2012	5-Jul-12	4	88.7	84.6		632.3	1894.8	0.085	521.8	536.9
2012	5-Jul-12	5	81.4	97.7	0.029	645.7	2069.4	0.047	528.3	466.6
2012	5-Jul-12	6	106.7	198.6	0.179	653.9	2347.8	35.992	525.4	475
2012	5-Jul-12	7	157.2	162.3	0.243	1649.2	2678.5	152.14	547	537.4
2012	5-Jul-12	8	303.5	135.3	0.44	2140.1	2890.9	248.247	627.6	746.7
2012	5-Jul-12	9	390.8	455.2	0.78	2133.9	2900.3	250.95	697.3	847.6
2012	5-Jul-12	10	542.2	672.8	0.798	2066.5	2884.6	328.833	753.4	877.8
2012	5-Jul-12	11	655.3	822.4	0.827	2072.2	2869.2	407.831	738.7	835.3
2012	5-Jul-12	12	701.2	1013.1	0.834	2070.3	2859.3	450.401	739.3	838.8
2012	5-Jul-12	13	795.9	932.7	0.873	2076.5	2900.7	454.9	744.1	815.1
2012	5-Jul-12	14	815.1	1151.1	0.774	2089.5	2935	942.4	751.1	827.3
2012	5-Jul-12	15	641.7	871.8	0.731	2068.7	2935.7	1371.3	761.6	838
2012	5-Jul-12	16	510.1	949.5	0.786	2050.4	2997	1524.4	743.2	859.1
2012	5-Jul-12	17	452.8	588.3	0.821	2049.4	3051.1	1642	678.6	784.7
2012	5-Jul-12	18	443.4	608.4	0.766	2043.8	3081.7	1647.8	546.5	620
2012	5-Jul-12	19	398.9	508	0.668	1944.7	3112.4	1648.5	570.4	714.1
2012	5-Jul-12	20	375.5	490.7	0.338	1982.5	3105.5	1654.4	538.5	585.6
2012	5-Jul-12	21	356.9	429.6		1952.7	3087	1529.9	512.3	448.1
2012	5-Jul-12	22	435.2	601.2		1978.4	3051.4	638.55	546.5	474.9
2012	5-Jul-12	23	896.1	515.4		1390.5	2817		517.6	442.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	6-Jul-12	0	686.7	484.1		622.7	2489.8		452.7	450.7
2012	6-Jul-12	1	405.3	284.4		598.4	2065.8		522.6	446.2
2012	6-Jul-12	2	306.9	252.4		581.7	1879	0.035	545.3	444.2
2012	6-Jul-12	3	227.5	139.8		626.8	1816	0.094	559.8	547.4
2012	6-Jul-12	4	169.6	160.7		590.5	1865	118.283	536.5	572.6
2012	6-Jul-12	5	165.2	164.4		583.1	2005.6	390.9	559.6	581.3
2012	6-Jul-12	6	238.9	217.7		598.7	2217.6	450.8	564.8	609.4
2012	6-Jul-12	7	527.7	171.9	0.041	1349.1	2631.6	493.5	556.1	593.6
2012	6-Jul-12	8	935	122.3	0.222	1690.9	2854.9	451.9	615.5	714.2
2012	6-Jul-12	9	1165.2	414.3	0.371	2136.2	2918.7	35.268	724.1	773
2012	6-Jul-12	10	1390.5	766.8	0.72	2224	2968.4	0.039	741.5	764.1
2012	6-Jul-12	11	1458.8	696	0.767	2220.3	2940.8	0.04	740.8	618.8
2012	6-Jul-12	12	1452.5	852.9	0.823	2250.9	2964.9		755.7	685
2012	6-Jul-12	13	1048.4	765.8	0.826	2258.2	2986.7		749.8	823
2012	6-Jul-12	14	742.6	733.3	0.811	2262	3019.4		740.2	840.8
2012	6-Jul-12	15	576.3	591.9	0.816	2265.7	3032.1		751.8	857.8
2012	6-Jul-12	16	521.5	682.5	0.835	2177.5	3051.5		776	880.2
2012	6-Jul-12	17	692.7	793.5	0.874	2105.8	3088.4		740.5	815.2
2012	6-Jul-12	18	756.7	1219.9	0.895	1962.4	3202.9		751.3	853
2012	6-Jul-12	19	645.8	998.4	0.893	2216.9	3242.1		739.8	844.4
2012	6-Jul-12	20	524	956.6	0.896	2296.8	3281.7		687.3	784.4
2012	6-Jul-12	21	491.5	465.8	0.69	2252	3261.1		561.2	572.8
2012	6-Jul-12	22	498	556.7	0.211	2262.5	3221.4		581.2	495.7
2012	6-Jul-12	23	554.3	466.4		2073.6	3099.8		547.3	445.3
2012	7-Jul-12	0	652.1	647.8		1674	2849.3		543	467.5
2012	7-Jul-12	1	493.2	666.3		662.4	2500.9		535.3	453.1
2012	7-Jul-12	2	314.8	687.7		529.2	2185.7		533.3	466.4
2012	7-Jul-12	3	202.8	423.5		467.7	2016.5		533.6	467
2012	7-Jul-12	4	144.1	523.7		464.9	1952.3		550.5	460.3
2012	7-Jul-12	5	106.9	390	0.027	456.7	1945.3		555.6	453.7
2012	7-Jul-12	6	104.3	417.2	0.125	446.3	2048.9		589.1	448.5
2012	7-Jul-12	7	159.2	259.4	0.18	533.9	2446.8		585.1	448.4
2012	7-Jul-12	8	296.7	379.1	0.198	1318.5	2820.7		596.4	450.5
2012	7-Jul-12	9	507.8	580.6	0.33	1882.4	3059.3		678.4	503.3
2012	7-Jul-12	10	570.7	791.9	0.703	2325.3	3165.2		734.5	578
2012	7-Jul-12	11	650.6	722.6	0.844	2350.7	3190.9		706	583.4
2012	7-Jul-12	12	592.6	841.1	0.872	2374.8	3221.6		687.6	570
2012	7-Jul-12	13	527.9	764.3	0.896	2382.2	3229.5		707.2	677.7
2012	7-Jul-12	14	509.6	778	0.883	2394.2	3288.3		684.1	806
2012	7-Jul-12	15	489.3	623.5	0.897	2405.2	3276.9		614	857.6
2012	7-Jul-12	16	443.5	519.1	0.885	2426.9	3314.3		671.8	836.1
2012	7-Jul-12	17	452	550.6	0.882	2453	3367.7		692	1088
2012	7-Jul-12	18	466.6	790.2	0.761	2487.1	3362.2		753	931.2
2012	7-Jul-12	19	627.4	804.4	0.191	2466.3	3312.9		622.1	843

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	7-Jul-12	20	760.7	1018.5		2455.8	3288.4		632.4	878.7
2012	7-Jul-12	21	792.2	857.3		2482.6	3240.2		569.7	711.1
2012	7-Jul-12	22	814.7	1076.9		2379.4	3190.6		605.6	708.7
2012	7-Jul-12	23	720.9	890.6		1953.5	3071.3		610.5	584.1
2012	8-Jul-12	0	614	680.6		1441.1	2886.9		602.1	659.9
2012	8-Jul-12	1	543.6	291.4		699.8	2560.3		588	1086.5
2012	8-Jul-12	2	948.6	298.8		650.3	2461.5		617.7	1277.8
2012	8-Jul-12	3	934	329.8		557.8	2079.1		628	1233.7
2012	8-Jul-12	4	1075.8	463.5		564.4	2055.1		652	1434.8
2012	8-Jul-12	5	1116.6	471.1		542.8	1980.5		859.6	1471.1
2012	8-Jul-12	6	1032.2	610.6		533.5	2099.1		872	1413.7
2012	8-Jul-12	7	1246.4	459.9	0.009	513.8	2444.5		990.1	1312
2012	8-Jul-12	8	1170	559.8	0.045	592.1	2720.5		975.8	1459.1
2012	8-Jul-12	9	1044.6	536.9	0.234	1359.3	2894.7		983.9	1930.7
2012	8-Jul-12	10	1276	529	0.268	1674.5	2892.3		762.2	2168.1
2012	8-Jul-12	11	1615.4	684.9	0.42	2377.2	3071.7		715.2	1787
2012	8-Jul-12	12	456.8	819.9	0.655	2432.7	3081.8		711.5	1976.8
2012	8-Jul-12	13	462.3	258	0.87	2451.5	3112		688.8	2106.8
2012	8-Jul-12	14	476.1	286.4	0.888	2451.8	3090.5		598.6	2008.1
2012	8-Jul-12	15	446.9	306.2	0.82	2440.4	3084.6		581.4	1255.6
2012	8-Jul-12	16	802.3	342.1	0.824	2433.5	3103.1		579.3	869.4
2012	8-Jul-12	17	1122.2	301.8	0.838	2399	3138.5		595.5	847.5
2012	8-Jul-12	18	1216	378.1	0.828	2357.6	3138		590.9	757
2012	8-Jul-12	19	1288.3	524.8	0.745	2378.1	3142.1		586.8	675.3
2012	8-Jul-12	20	1679.5	680.7		2320.8	3175.2		579.4	761
2012	8-Jul-12	21	1207.3	826.4		2163.4	3116.8		546	500.6
2012	8-Jul-12	22	779.2	822.8		1832.3	2908.7		548	521.4
2012	8-Jul-12	23	495.2	566.7		795.4	2549.1		571.1	572.9
2012	9-Jul-12	0	410.2	617		684	896.92		624.1	682.3
2012	9-Jul-12	1	749.1	772.7		710.7			621.7	767
2012	9-Jul-12	2	562.8	723.3		668.7			604.4	712
2012	9-Jul-12	3	420.6	415.1		637.4			615.6	750.3
2012	9-Jul-12	4	386.8	298.7		580.6			665	818.8
2012	9-Jul-12	5	383.5	288.9		515.1			620.1	937.6
2012	9-Jul-12	6	757.2	406.9		793.9			638	1007.8
2012	9-Jul-12	7	1076.3	380.3		550.5			719.6	1289.6
2012	9-Jul-12	8	1028.5	313.2		933.4			628.1	1205.5
2012	9-Jul-12	9	1213.6	415.8		1396.6			620.4	1220.6
2012	9-Jul-12	10	1450	599.4		1398.5			658.3	1013.8
2012	9-Jul-12	11	1537.7	564.2		1805.3			833	1543.3
2012	9-Jul-12	12	1497.1	602.4		2307.6			1013.6	1155.7
2012	9-Jul-12	13	1069.3	572		2350.2			940.4	1002
2012	9-Jul-12	14	760.1	661.9		2347.8			859	1000.1
2012	9-Jul-12	15	602.9	513.6		2356			870.3	1085

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	9-Jul-12	16	563.2	633.5		2377.5			974.6	1177.3
2012	9-Jul-12	17	718.7	500.8		2376.6			1036.2	1280.1
2012	9-Jul-12	18	763.5	544.6		2145.9			897.3	1118.5
2012	9-Jul-12	19	683.6	418.4		2203.4			817.4	799.2
2012	9-Jul-12	20	546.6	478.8		2157.7			782.2	569.8
2012	9-Jul-12	21	479.6	356.2		1784.4			753.2	562.7
2012	9-Jul-12	22	414.4	213.3		1061.7			656.2	652.5
2012	9-Jul-12	23	438.7	144.7		676.3			557.8	780.1
2012	10-Jul-12	0	444.5	107.1		635.3			544.6	755.6
2012	10-Jul-12	1	365.7	111.1		608.8			540.2	747.8
2012	10-Jul-12	2	259.6	101.7		610.1			535.1	736.9
2012	10-Jul-12	3	180.7	85.4		585.5			658.6	516.1
2012	10-Jul-12	4	141.8	76.8		581.1			959.1	659.9
2012	10-Jul-12	5	108.5	82.8		573.8			622.8	710.8
2012	10-Jul-12	6	106.8	77.8		597.6			621.9	563.2
2012	10-Jul-12	7	173.6	77.5		578.1			710.1	569.6
2012	10-Jul-12	8	306	31.2		971.4			688.2	544.5
2012	10-Jul-12	9	487.8	152.8		1588.5			674.8	522.4
2012	10-Jul-12	10	569.3	284.5		1753.1			638.9	495.8
2012	10-Jul-12	11	644.2	291.4		2088.6			623.1	479.1
2012	10-Jul-12	12	578.9	441.6		2185.8			606.8	515.3
2012	10-Jul-12	13	409.6	392		2228.3			614.4	513.6
2012	10-Jul-12	14	455.7	493.3		2282.9			570.1	593.6
2012	10-Jul-12	15	556	398.3		2298.3			571.9	758.7
2012	10-Jul-12	16	713.2	508.4		2304.4			535.2	854.4
2012	10-Jul-12	17	812.7	504.3		2298.8			527.6	904.5
2012	10-Jul-12	18	727.8	549		2069.9			535.1	492
2012	10-Jul-12	19	772.8	464.3		2080.6			523.5	524.4
2012	10-Jul-12	20	900	420.1		2155.2			543.9	480.3
2012	10-Jul-12	21	708.6	341.4		1503.4			506.4	472.2
2012	10-Jul-12	22	431.1	290.1		797.4			456.5	496.9
2012	10-Jul-12	23	379.9	474.8		576.7			427.1	463.9
2012	11-Jul-12	0	622.5	295.9		623.5			410.8	12.258
2012	11-Jul-12	1	601.3	483.3		622.6			368.8	
2012	11-Jul-12	2	441.3	410.7		547.3			277.5	
2012	11-Jul-12	3	371.9	301.4		552.8			117.288	
2012	11-Jul-12	4	385.8	293.7		538.4				
2012	11-Jul-12	5	386.7	243.4		620.2				
2012	11-Jul-12	6	398.1	259.3		628.2				
2012	11-Jul-12	7	456	252.4		575.4				
2012	11-Jul-12	8	604.3	304.8		591.8				
2012	11-Jul-12	9	1024.8	689.6		938.4				
2012	11-Jul-12	10	1011.2	907.5		1648.4				
2012	11-Jul-12	11	775.5	478.9		2114.9				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	11-Jul-12	12	910	601.1		2319.9				
2012	11-Jul-12	13	911.7	538.7		2306.4				
2012	11-Jul-12	14	949.9	613.4		2303.2				
2012	11-Jul-12	15	923.1	497.2		2303.6				
2012	11-Jul-12	16	886.4	593.7		2308.5				
2012	11-Jul-12	17	866.5	482		2315.2				
2012	11-Jul-12	18	856.3	569.1		2325				
2012	11-Jul-12	19	847.5	455		2341.7				
2012	11-Jul-12	20	844.5	536		2364.7				
2012	11-Jul-12	21	680.6	397.5		2167.4				
2012	11-Jul-12	22	328.4	389.6		1390.6				
2012	11-Jul-12	23	326.9	663.7		715.3				
2012	12-Jul-12	0	332.9	505.5		542.5				
2012	12-Jul-12	1	316.4	406.5		533.5				
2012	12-Jul-12	2	308.2	351.9		542.4				
2012	12-Jul-12	3	331.1	276.4		533.3				
2012	12-Jul-12	4	334.4	266.2		504.2				
2012	12-Jul-12	5	333.2	261.1		492.4				
2012	12-Jul-12	6	421	356.1		477.6				
2012	12-Jul-12	7	643.7	358		470.5				
2012	12-Jul-12	8	1186.2	443.1		479				
2012	12-Jul-12	9	909.9	860.6		1222.1				
2012	12-Jul-12	10	747.8	516.2		1683.5				
2012	12-Jul-12	11	773.3	428.2		1851.4				
2012	12-Jul-12	12	815	477.3		2320.4				
2012	12-Jul-12	13	818.7	382.3		2356				
2012	12-Jul-12	14	820.6	489.3		2369				
2012	12-Jul-12	15	807.1	402.3		2349.1				
2012	12-Jul-12	16	819.8	508.9		2324.9				
2012	12-Jul-12	17	821.9	407.9		2330.4				
2012	12-Jul-12	18	811.8	498.2		2328.1				
2012	12-Jul-12	19	765	412.7		2297.1				
2012	12-Jul-12	20	763.9	533.8		2260.7				
2012	12-Jul-12	21	635.3	419.8		2067.7				
2012	12-Jul-12	22	415.1	325.2		1414.6				
2012	12-Jul-12	23	441.8	311.4		1075				
2012	13-Jul-12	0	383.5	330.5		1635.3	0			
2012	13-Jul-12	1	320.3	244.9		909.3	0			
2012	13-Jul-12	2	325.9	247		538.4	247.1			
2012	13-Jul-12	3	314.6	220.7		609.5	274			
2012	13-Jul-12	4	306.3	206.5		679.2	319.6			
2012	13-Jul-12	5	333.8	209.8		691.5	339.2			
2012	13-Jul-12	6	337.9	262.3		711	385.3			
2012	13-Jul-12	7	444.3	186.5		683.6	421.2			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	13-Jul-12	8	516	140.4		1032.3	629.2			
2012	13-Jul-12	9	567.9	399.6		1486.4	1221.3			
2012	13-Jul-12	10	1009.2	855.4		1584.2	1747.9			
2012	13-Jul-12	11	1261.1	654		1750.6	1959.6			
2012	13-Jul-12	12	1971	607.9		2042.4	2341.8			
2012	13-Jul-12	13	755.6	522.4		2000.3	2637.2			
2012	13-Jul-12	14	680	643.9		2083.9	2880.7			
2012	13-Jul-12	15	688.2	579.8		2185.6	3005			
2012	13-Jul-12	16	694.4	625.3		2073.9	3037.6			
2012	13-Jul-12	17	684.1	523.8		1800.5	2889.2			
2012	13-Jul-12	18	490.7	631.8		1746.8	2793.5			
2012	13-Jul-12	19	509.5	549.3		1766.5	2915.8			
2012	13-Jul-12	20	531.7	600.8		2060.3	3073.8			
2012	13-Jul-12	21	364	526		1671.6	2850.6			
2012	13-Jul-12	22	243.4	555.2		1173.4	2480.5			
2012	13-Jul-12	23	430.6	528.6		563.6	2103.9			
2012	14-Jul-12	0	393.4	560.6		471.1	1846.4			
2012	14-Jul-12	1	305.4	548.2		452.4	1842.5			
2012	14-Jul-12	2	310.8	595.5		448.1	1910.2			
2012	14-Jul-12	3	305.1	593		451.5	1917.4			
2012	14-Jul-12	4	299.3	601.9		452.3	1914.2			
2012	14-Jul-12	5	321	603.9		450.5	1927.5			
2012	14-Jul-12	6	316.3	612.1		443	1963.4			
2012	14-Jul-12	7	327.3	449.9		441.5	1947.2			
2012	14-Jul-12	8	300.2	300.5		453.7	2067			
2012	14-Jul-12	9	352.5	404.6		454.8	2443.6			
2012	14-Jul-12	10	523.8	523		719.5	2856.2			
2012	14-Jul-12	11	869.2	497.5		901.7	2994			
2012	14-Jul-12	12	662.6	554.2		1405.3	3065.8			
2012	14-Jul-12	13	422	574.8		1251.6	2849.1			
2012	14-Jul-12	14	462.5	584.1		552.5	2811.6			
2012	14-Jul-12	15	642.4	646.4		647.9	3002.7			
2012	14-Jul-12	16	789.7	654.2		1440.9	3101			
2012	14-Jul-12	17	791.9	905.9		726.4	2965.5			
2012	14-Jul-12	18	628.7	679.1		498.1	2752.7			
2012	14-Jul-12	19	595.3	372.9		491	2690.3			
2012	14-Jul-12	20	604.4	358.1		563.2	2760.1			
2012	14-Jul-12	21	430.6	330.4		483.8	2507.7			
2012	14-Jul-12	22	284.6	192.9		487.6	2219.7			
2012	14-Jul-12	23	178	292.7		497.1	1999.4			
2012	15-Jul-12	0	126.5	369		502.2	1921.4			
2012	15-Jul-12	1	100.7	371.7		502.2	1904.2			
2012	15-Jul-12	2	102	275.4		464.9	1911.4			
2012	15-Jul-12	3	99.7	230		458.7	1894.2			1.575

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-Jul-12	4	91.7	227.2		465.9	1892.7			4.2
2012	15-Jul-12	5	86.6	188.8		459.4	1893.6			1.6
2012	15-Jul-12	6	93.7	190.1		463.8	1919			4.2
2012	15-Jul-12	7	96.4	124		452.2	2025.5			1.9
2012	15-Jul-12	8	107	91		619.4	2405.7			1.6
2012	15-Jul-12	9	117.4	223.3		474	2608.7			1.7
2012	15-Jul-12	10	209	427.9		1249.9	2808.5			1.8
2012	15-Jul-12	11	313.8	663.1		1888.3	3085.9			1.8
2012	15-Jul-12	12	592	487.9		2205.8	3069.2			1.7
2012	15-Jul-12	13	658.1	259.4		2222.7	3062.5			1.2
2012	15-Jul-12	14	721.7	256.3		2223.1	3083.4			1.3
2012	15-Jul-12	15	767.1	315.6		2221.5	3095.2			9.5
2012	15-Jul-12	16	987.7	481.2		2225.4	3092.3			17
2012	15-Jul-12	17	1164.5	516.5		2220.2	3089			112.1
2012	15-Jul-12	18	1160.9	635.2		2196.7	3132.5			116.1
2012	15-Jul-12	19	1126.2	698.9		2027.9	3081.7			121.7
2012	15-Jul-12	20	976.3	596.6		1949.5	3025.1			212.2
2012	15-Jul-12	21	722.8	480.8		1436	2864			389.6
2012	15-Jul-12	22	560.3	306.3		1171.9	2557.2		0	661.6
2012	15-Jul-12	23	370.9	264.5		523.4	2102.8		0	659.5
2012	16-Jul-12	0	234.6	194		449.9	1874.3		0	591.2
2012	16-Jul-12	1	173.8	154.5	0.018	446.2	1858.8		24.2	465.4
2012	16-Jul-12	2	171.8	137.8	0.036	446	1863		43.9	476.4
2012	16-Jul-12	3	155.2	163.6	0.048	459.4	1857.4		55.7	546.5
2012	16-Jul-12	4	159.7	157.6	0.05	437.7	1932.7		33.1	549
2012	16-Jul-12	5	141.6	136.8	0.063	424.2	2089		30.9	543.3
2012	16-Jul-12	6	151.3	167	0.112	410	2160.6		33.1	638.2
2012	16-Jul-12	7	238.9	148.3	0.166	543	2581.6		26.8	694.2
2012	16-Jul-12	8	414.5	182.6	0.554	1182	2819		31.5	617
2012	16-Jul-12	9	628.5	388.3	0.612	1777.3	2981.3		33.8	563.8
2012	16-Jul-12	10	966.9	450.8	0.722	1907.8	3012.5		5.1	615.7
2012	16-Jul-12	11	1313.6	503.9	0.706	2055.1	3008.6			811.5
2012	16-Jul-12	12	1294.2	700.5	0.843	2268.3	3006.3			822.4
2012	16-Jul-12	13	1222.8	736.9	0.898	2261.6	3002.1			810.3
2012	16-Jul-12	14	1199.7	759.8	0.898	2267.1	3009.8			806.1
2012	16-Jul-12	15	1279.2	741.3	0.896	2273	3011.1			798.6
2012	16-Jul-12	16	1310.8	779.3	0.899	2255.1	3017.6			801.3
2012	16-Jul-12	17	1218.3	681	0.898	2231.4	3008.2			796.6
2012	16-Jul-12	18	971.9	699.6	0.897	2227	3022.1			714.9
2012	16-Jul-12	19	705.5	595.9	0.897	1869.9	3028.5			518.8
2012	16-Jul-12	20	915.2	610.1	0.896	1945.4	2985.1	0.03		486.6
2012	16-Jul-12	21	978.9	598.3		1689.9	2623.8	0.08		447.3
2012	16-Jul-12	22	1049.2	696.4		1638	2028.4	0.103		473.4
2012	16-Jul-12	23	909.1	576.3		1650.5	1793.3	0.109		478

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	17-Jul-12	0	606.5	394.2		1217.3	1780.7	0.109		479.4
2012	17-Jul-12	1	429	329.3		564.2	1797.3	0.105		499.3
2012	17-Jul-12	2	271.2	237.3		457.6	1827.3	0.062		520.7
2012	17-Jul-12	3	234.5	192.1		419.2	1832.6	0.062	3.45	508.3
2012	17-Jul-12	4	176.5	187.5		625.2	1971.3	0.062	21.6	510.3
2012	17-Jul-12	5	165.7	155.6		1206.1	2100.3	0.049	55.7	514.7
2012	17-Jul-12	6	191.1	152	0.081	1526.5	2280.8	0.06	63.7	486.9
2012	17-Jul-12	7	268.1	123.1	0.222	2040.8	2690.6	0.062	68	463.6
2012	17-Jul-12	8	314.8	79.1	0.278	2010.4	2883	71.358	61.9	450.7
2012	17-Jul-12	9	525.6	244.8	0.691	1767.6	2912.4	219.531	61.5	444.1
2012	17-Jul-12	10	765.5	468.5	0.853	1992.3	2940.4	302	61.5	458.2
2012	17-Jul-12	11	994.6	514.8	0.896	1951	2933.1	396.5	60.1	617.4
2012	17-Jul-12	12	1100.3	729.2	0.896	1992.7	2951.8	816.9	55.7	758.1
2012	17-Jul-12	13	1332.5	739.4	0.898	2003.9	2982.1	1189.9	66.8	817.5
2012	17-Jul-12	14	1310.9	860.4	0.9	2120.6	2987.8	1292.8	125.9	839.8
2012	17-Jul-12	15	1274.3	802.6	0.898	2148.6	2984.5	1462.5	143.7	852
2012	17-Jul-12	16	1278.6	890.7	0.833	2145.4	2983.9	646.6	215.4	810.2
2012	17-Jul-12	17	1242.9	722.7	0.856	2140.3	2972.8	455	267.7	596.5
2012	17-Jul-12	18	1279.9	806.4	0.822	2119.1	2851.3	616.2	308.4	507.2
2012	17-Jul-12	19	1228.4	729	0.822	2021.2	2167.8	568.3	339.7	493.2
2012	17-Jul-12	20	1041.2	843.5	0.809	2060.3	1796.4	526.3	418.9	466.5
2012	17-Jul-12	21	1000.6	600.7	0.795	1615.9	1788.7	424.7	499.8	532.7
2012	17-Jul-12	22	1169.6	629.1	0.767	1032.8	1990.6	424.5	533.6	425
2012	17-Jul-12	23	1114.9	813.5	0.422	525	2294.7	422.2	521.6	402.1
2012	18-Jul-12	0	1225.4	867.1		518.1	2565.2	424.2	479.3	327.4
2012	18-Jul-12	1	888.5	639.7		514.7	2270.6	422.4	495.8	233
2012	18-Jul-12	2	528.7	374.5		515	2126.7	420.9	488.5	173.3
2012	18-Jul-12	3	400.9	299.2		575.6	2225.6	420.8	483.7	147.2
2012	18-Jul-12	4	426	312.8		583.2	2406.5	421.2	456.8	58.058
2012	18-Jul-12	5	819	608.3	0.085	572.5	2622.6	419.7	443.8	
2012	18-Jul-12	6	1079.9	694.1	0.24	585.4	2828.6	417.9	214.9	
2012	18-Jul-12	7	1220.6	644.7	0.371	1181.3	2850	419.6	206.1	
2012	18-Jul-12	8	1220.7	577.1	0.551	1236.9	2879.6	417	199.5	
2012	18-Jul-12	9	1207.4	675.8	0.873	1283.6	2909.9	595	201.9	
2012	18-Jul-12	10	1253.3	902.3	0.894	1395.6	2931.9	1381.8	116.406	
2012	18-Jul-12	11	1371.7	846.1	0.897	2118.1	2954.8	1607.1		
2012	18-Jul-12	12	1380.2	1056.8	0.899	2159	2963.7	1506.6		
2012	18-Jul-12	13	1159.5	912.4	0.809	2076.5	2956.8	874.9		
2012	18-Jul-12	14	1468.1	1062.8	0.844	2080.5	2940.2	525.3		
2012	18-Jul-12	15	1494.8	999.9	0.674	2025.7	2944	420.2		
2012	18-Jul-12	16	1231.3	914.7	0.53	1770.8	2897	420.4		
2012	18-Jul-12	17	1335.1	707.6	0.537	1129.4	2769.2	420.8		
2012	18-Jul-12	18	1323.4	949.5	0.717	1291.6	2863.9	375.75		
2012	18-Jul-12	19	885	750.1	0.595	1501.9	2863.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	18-Jul-12	20	394.6	709.4	0.689	1409.1	2820			
2012	18-Jul-12	21	217.1	534.4	0.371	984.5	2637.2			
2012	18-Jul-12	22	126.752	630	0.084	795.4	2698.6			
2012	18-Jul-12	23		454.9		495.2	2208.6			
2012	19-Jul-12	0		247.7		482.8	2012.9			
2012	19-Jul-12	1		185.2		483.6	2027.8			
2012	19-Jul-12	2		127.7		484.3	1795.6			
2012	19-Jul-12	3		129.7		474.2	1785.3			
2012	19-Jul-12	4		143.5		434.6	1861.2			
2012	19-Jul-12	5		153.3		432.9	2147.6			
2012	19-Jul-12	6		150		456.1	2344.8			
2012	19-Jul-12	7		180.6	0.217	480.4	2363.1			
2012	19-Jul-12	8		206	0.228	461.4	2395.3			
2012	19-Jul-12	9		621.7	0.297	525	2569			
2012	19-Jul-12	10		962	0.544	490.7	2924.7			
2012	19-Jul-12	11		1108.7	0.537	515.1	2952.3			
2012	19-Jul-12	12		1567.3	0.528	829.7	2954.3			
2012	19-Jul-12	13		1449.2	0.743	1175.2	2965.3			
2012	19-Jul-12	14		1637.1	0.807	1504	2998.5			
2012	19-Jul-12	15		1286	0.863	1911.2	3026.6			
2012	19-Jul-12	16		1436.1	0.887	1990.7	3014.4			
2012	19-Jul-12	17		1132.6	0.888	1968	2994.7			
2012	19-Jul-12	18		1177.3	0.741	1331.4	2956.4			
2012	19-Jul-12	19		949.3	0.694	1498.9	2904.2			
2012	19-Jul-12	20		634.8	0.441	1408.7	2679.4			
2012	19-Jul-12	21		652.3	0.016	1357.4	2222.1			
2012	19-Jul-12	22		442.4		798.4	2056.1			
2012	19-Jul-12	23		554.4		588.9	2110.4			
2012	20-Jul-12	0		288.3		579.9	2121.5			
2012	20-Jul-12	1		225.5		575.4	2131			
2012	20-Jul-12	2		194.1		578.2	2106.2			
2012	20-Jul-12	3		176.2		575.3	1990.4			
2012	20-Jul-12	4		177.1		570.4	1954.9			
2012	20-Jul-12	5		148.9		539.1	2078.1			
2012	20-Jul-12	6		136.2		529.4	2179			
2012	20-Jul-12	7		99.7		482.6	2685.9			
2012	20-Jul-12	8		56.5		462	2818			
2012	20-Jul-12	9		84		432.8	2861.6			
2012	20-Jul-12	10		81		468.6	2984.4			
2012	20-Jul-12	11		197.3		485.2	3069.3			
2012	20-Jul-12	12		152.1		493.7	3000.9			
2012	20-Jul-12	13		310.4		527.1	2649.4			
2012	20-Jul-12	14	2.457	345.3		948.7	2801.6		0	
2012	20-Jul-12	15	3.9	616.2		1441	2711.9		0	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	20-Jul-12	16	3.8	530.2		2016.1	2741.2		0	
2012	20-Jul-12	17	3.003	702.7		1979.5	2702.2		0	
2012	20-Jul-12	18	12.4	579.5		1938.6	2693.5			
2012	20-Jul-12	19	9.5	698.6		1933.5	2376.4			
2012	20-Jul-12	20	7.6	445.8		1934.1	2371.1			
2012	20-Jul-12	21	7.6	645.9		1934.3	2660.9			
2012	20-Jul-12	22	11.8	446.8		1937.3	2423.9			
2012	20-Jul-12	23	13.8	399		1930.2	2032.7			
2012	21-Jul-12	0	57.5	213.8		1939.2	1884.3			
2012	21-Jul-12	1	210.8	309.9		1944.5	1849.1			
2012	21-Jul-12	2	459.8	229.1		1946.7	1858.5			
2012	21-Jul-12	3	655.3	259.1		1942.2	1834.9			
2012	21-Jul-12	4	573	272.7		1787.6	1828.9			
2012	21-Jul-12	5	85.3	177.2		1195.9	1846.4			
2012	21-Jul-12	6	70.8	168.8		931	1851.4			
2012	21-Jul-12	7	61.7	85		568.5	1807.2			
2012	21-Jul-12	8	83.9	49.5		513.6	1835.6			
2012	21-Jul-12	9	107	75		517.9	1851.5			
2012	21-Jul-12	10	96.6	103.3		483.1	2039.6			
2012	21-Jul-12	11	87.7	84.4		478.8	2114.3			
2012	21-Jul-12	12	86.7	96		479.5	2070.2			
2012	21-Jul-12	13	109.4	122		482.4	2170.7			
2012	21-Jul-12	14	121.7	91		482.3	2219.8			
2012	21-Jul-12	15	122.9	134.5		485.7	2268.9			
2012	21-Jul-12	16	272.9	116.3		488.3	2304.6			
2012	21-Jul-12	17	270.1	211.3		489.7	2301.4			
2012	21-Jul-12	18	158	140.7		494.2	2185.3			
2012	21-Jul-12	19	181.9	249.6		499.2	2218.3			
2012	21-Jul-12	20	215.5	199.6		497	2212.4			
2012	21-Jul-12	21	217.8	219.5		495.8	1990.9			
2012	21-Jul-12	22	302.7	164		496.4	1816.1			
2012	21-Jul-12	23	138.2	175.3		493.9	1822			
2012	22-Jul-12	0	131.1	188.2		484.7	1809.6			
2012	22-Jul-12	1	311.1	143.2		484.6	1824.8			
2012	22-Jul-12	2	425.5	172.2		480.7	1804.8			
2012	22-Jul-12	3	411.9	106.4		442.5	1799.3			
2012	22-Jul-12	4	389.3	124.7		434.2	1800.6			
2012	22-Jul-12	5	399.3	90.8		436.9	1801.1			
2012	22-Jul-12	6	412.6	119.1		436	1795.6			
2012	22-Jul-12	7	416.5	70.5		431.9	1761.3			
2012	22-Jul-12	8	400.5	40.6		435.7	1791.8			
2012	22-Jul-12	9	398.5	45.9		435.7	2055.5			
2012	22-Jul-12	10	571.4	69.2		477	2280			
2012	22-Jul-12	11	669.4	59.5		442.9	2454.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	22-Jul-12	12	399.3	125.6		441.8	2528.9			
2012	22-Jul-12	13	541.3	163.5		483.5	2619.4			
2012	22-Jul-12	14	733.8	126.2		482.9	2672.8			
2012	22-Jul-12	15	780.9	167.6		959.2	2976.3			
2012	22-Jul-12	16	829.6	344.8		1170.2	2978.8			
2012	22-Jul-12	17	904.4	424.4		1559.2	3049.2			1.8
2012	22-Jul-12	18	1064.6	680		1814.3	3017.4			1.9
2012	22-Jul-12	19	1053.3	457.6		1427.5	2942.1			4.8
2012	22-Jul-12	20	768.6	605.5		1785.2	3025.2			1.4
2012	22-Jul-12	21	574.6	361.6		1362.5	2743.1			1.5
2012	22-Jul-12	22	472.1	271.4		623.7	2371.5			1.4
2012	22-Jul-12	23	298.3	143.5		486.1	2025			1.3
2012	23-Jul-12	0	558.1	122.2		479.6	1874.2			1.3
2012	23-Jul-12	1	584.7	364.1	0.023	476.1	1887.1			1.3
2012	23-Jul-12	2	423.8	543.7	0.039	472.8	1877.7			1.3
2012	23-Jul-12	3	394.5	453.3	0.044	447.2	1874.3			1.3
2012	23-Jul-12	4	403.5	542.9	0.063	427.3	1996.5			17.5
2012	23-Jul-12	5	393.2	458	0.268	427	2052.8			284.9
2012	23-Jul-12	6	432.5	641.6	0.532	428.2	2175.1			273.9
2012	23-Jul-12	7	564.7	548	0.636	425.3	2438.4			374.8
2012	23-Jul-12	8	573.9	969.4	0.639	434.2	2659.3			461.1
2012	23-Jul-12	9	573.4	568.6	0.624	755.3	2930.8			323.3
2012	23-Jul-12	10	958.3	889	0.656	1337	3066.5			421.4
2012	23-Jul-12	11	1165.6	701.1	0.813	2041.2	3061.4			581.2
2012	23-Jul-12	12	1249.3	997.4	0.824	1852.7	3059.8			548
2012	23-Jul-12	13	1216.8	678.7	0.823	1847.9	3073.5			556.8
2012	23-Jul-12	14	1110.9	815.9	0.82	1966.1	3091.7			631.7
2012	23-Jul-12	15	1135	673.5	0.838	1976.5	3092.4			752.8
2012	23-Jul-12	16	1181.8	951.8	0.856	1971.9	3073			759.4
2012	23-Jul-12	17	1224.6	750.3	0.377	1957.9	3066			710.5
2012	23-Jul-12	18	1303.3	951.2		1928.4	3083.4			525.7
2012	23-Jul-12	19	1361.5	651.7		1903.3	3094.4			421
2012	23-Jul-12	20	1404.2	766.7		1686.5	3094.5			436.6
2012	23-Jul-12	21	1440	508.5		1951.6	3091.1			440.8
2012	23-Jul-12	22	1266.9	542.4		1625.6	2996			432.1
2012	23-Jul-12	23	951.9	447		1112.8	2589.9			429.2
2012	24-Jul-12	0	607.2	250.1		627.9	2192.1			429.6
2012	24-Jul-12	1	555.3	228.1		447	1887.1			427
2012	24-Jul-12	2	455.7	163.7		454.4	1879.3			424.9
2012	24-Jul-12	3	293	178.7		455.5	1891.3			422.3
2012	24-Jul-12	4	260.9	190.5	0.024	450.4	1900.5			418.7
2012	24-Jul-12	5	267	258.2	0.038	451.1	2216.7			421.1
2012	24-Jul-12	6	293.9	294.1	0.068	449.5	2587.6			431.9
2012	24-Jul-12	7	532.2	398.2	0.184	833.8	2794.1			436.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	24-Jul-12	8	716	517	0.273	920.5	2863.6			433
2012	24-Jul-12	9	1235.8	585	0.313	1866.1	2999.4			493.9
2012	24-Jul-12	10	1603.9	1011.4	0.898	1690	3007.8			593.8
2012	24-Jul-12	11	1500.3	978.8	0.852	2148.8	3075.1			686.7
2012	24-Jul-12	12	1356.5	1457.9	0.793	1944.3	3063.5			674.8
2012	24-Jul-12	13	1266.8	1137.1	0.647	1947.2	3081			732.7
2012	24-Jul-12	14	1404.8	1263.7	0.77	1945.9	3063.1			621
2012	24-Jul-12	15	1396.4	992.1	0.892	1953.9	3063.8			669
2012	24-Jul-12	16	1498	1322.4	0.883	1939.6	3078.4			710.5
2012	24-Jul-12	17	1466.1	1132.7	0.214	1943.9	3027.4			754.1
2012	24-Jul-12	18	1357	1211.2		1955.7	3057.3			701.5
2012	24-Jul-12	19	1320.9	612.9		1995.9	3083.6			701.7
2012	24-Jul-12	20	1227.8	657.6		1970.6	3036.2			693.1
2012	24-Jul-12	21	1022.4	404.7		1245.9	2790.4			670.3
2012	24-Jul-12	22	770.6	344		1110.5	2338			636.1
2012	24-Jul-12	23	553.3	205		749.4	1966.5			522.4
2012	25-Jul-12	0	443.9	129.1		493.2	1902.8			410.3
2012	25-Jul-12	1	376.4	145.4		471.3	1828.4			414.8
2012	25-Jul-12	2	263.8	137.7		464.2	1831.9			405.5
2012	25-Jul-12	3	253.6	108		443.2	1848.5			405.1
2012	25-Jul-12	4	267.9	138.4	0.048	427.4	1842			410.1
2012	25-Jul-12	5	270.1	116.8	0.054	424.9	1831.8			402.7
2012	25-Jul-12	6	284.9	147.6	0.063	421.5	1860.3			401.4
2012	25-Jul-12	7	282.8	184.9	0.061	420.4	2114.6			402.3
2012	25-Jul-12	8	300.9	396.1	0.269	425.5	2259.3			409.4
2012	25-Jul-12	9	450.6	762.2	0.334	435.2	2638.6			411.2
2012	25-Jul-12	10	783	883.4	0.495	457.6	2883.2			459.3
2012	25-Jul-12	11	1238.6	575.6	0.586	476.3	2838.8			543.6
2012	25-Jul-12	12	1391.5	710	0.8	936.7	2984.8			599.8
2012	25-Jul-12	13	1622.4	695.7	0.794	1439.8	2987.6			693.6
2012	25-Jul-12	14	1524.1	845.7	0.83	2050.4	3021.1			636.5
2012	25-Jul-12	15	1567.3	628.2	0.804	2013.2	3025.1			609.6
2012	25-Jul-12	16	1391	864.4	0.778	1987.5	3014.8			555.5
2012	25-Jul-12	17	1294.2	689.9	0.849	1979	3027.5			550
2012	25-Jul-12	18	1158.5	715.6	0.324	1974.7	2928.2			541.5
2012	25-Jul-12	19	1284.9	551.6		1969.3	2883.8			516.8
2012	25-Jul-12	20	1352.3	805		1954	3021.1			517.3
2012	25-Jul-12	21	1410.8	547.1		1405.5	2874.9			519.3
2012	25-Jul-12	22	1250.8	589.5		907.5	2458.4			520.4
2012	25-Jul-12	23	966.4	291.5		581.3	2010.1			523.3
2012	26-Jul-12	0	737.9	183.3		461.7	1774.4			523.4
2012	26-Jul-12	1	619.5	181.4		454.1	1827.6			528.5
2012	26-Jul-12	2	439.5	176.9		437	1855.2			532.9
2012	26-Jul-12	3	283.5	161.6		407	1820.6			485

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-Jul-12	4	244.6	185.8		407.8	1825.4			413.5
2012	26-Jul-12	5	264.9	158.9	0.048	407.8	1824.2			408.2
2012	26-Jul-12	6	281.6	187	0.101	408	1988.3			406.4
2012	26-Jul-12	7	292.1	106.8	0.125	405.4	1878.9			402.7
2012	26-Jul-12	8	311.3	78	0.231	412	2245.3			400.9
2012	26-Jul-12	9	346.2	152.8	0.215	412.8	2457.7			400.7
2012	26-Jul-12	10	603.2	323.3	0.213	414.1	2560.6			419.3
2012	26-Jul-12	11	923.6	433.3	0.212	427.1	2617.5			405.6
2012	26-Jul-12	12	1095.9	632.7	0.259	542.9	2701.6			462.5
2012	26-Jul-12	13	1034.3	572.9	0.374	811.5	2911.5			470.1
2012	26-Jul-12	14	1081.2	786.4	0.678	1057.6	2950.2			416
2012	26-Jul-12	15	1209.6	700.2	0.825	674.5	2866.7			444.5
2012	26-Jul-12	16	1430.3	967.2	0.883	539.2	2693			492.2
2012	26-Jul-12	17	1422	811.6	0.856	533.4	2724.6			444.4
2012	26-Jul-12	18	1224.8	1076	0.693	540.5	2878.1			402.7
2012	26-Jul-12	19	1176.7	784.4	0.55	705.8	2898.1			450.1
2012	26-Jul-12	20	1069.1	1088.1	0.486	918.2	2980.6			401.1
2012	26-Jul-12	21	941.6	792.9	0.242	557.1	2702.9			390.9
2012	26-Jul-12	22	682.2	671.2		504.9	2361			387.8
2012	26-Jul-12	23	329.3	351.7		466.6	2119.2			385
2012	27-Jul-12	0	182.3	228.1		450	1848.6			383.8
2012	27-Jul-12	1	140.1	283		447.7	1795.5			382
2012	27-Jul-12	2	142.7	257		449.6	1793.2			383.9
2012	27-Jul-12	3	163.8	358.7		449	1780			383.8
2012	27-Jul-12	4	151	335.2		451.7	1808.2			380.1
2012	27-Jul-12	5	174.2	511	0.053	454	1811.5			379.9
2012	27-Jul-12	6	172.9	386.5	0.086	451.8	1811.2			383
2012	27-Jul-12	7	233.5	426.1	0.081	450.9	1779.5			380.6
2012	27-Jul-12	8	319.5	527.6	0.117	521.2	1803.6			463.3
2012	27-Jul-12	9	499.7	617.7	0.229	472.1	1806.3			607.2
2012	27-Jul-12	10	778	1039.5	0.259	478.2	1811.9			717.4
2012	27-Jul-12	11	996	891.3	0.261	557	1815			697.5
2012	27-Jul-12	12	1204	1286.4	0.336	1052.1	1834.7			713.3
2012	27-Jul-12	13	1351.1	1199.3	0.438	1610.5	1838.6			704.7
2012	27-Jul-12	14	1354.7	1307.1	0.544	2001.1	1838.7			708.9
2012	27-Jul-12	15	1289.9	1071.8	0.745	1981.5	1853.6			726.6
2012	27-Jul-12	16	1331.7	1493.4	0.738	1661.7	1858.1			731.9
2012	27-Jul-12	17	1491.4	1195.6	0.409	1338.6	2095.3			717.4
2012	27-Jul-12	18	1678.5	1711.6		1227.9	2601			702.2
2012	27-Jul-12	19	1507	455.6		1191.8	2899.2			703.1
2012	27-Jul-12	20	1456.7	209.6		1266.3	2944.6			675.7
2012	27-Jul-12	21	1120.8	239.9		832.3	2803.4			631.3
2012	27-Jul-12	22	807.3	254.9		503.1	2493.5			555
2012	27-Jul-12	23	564.1	123.5		459.9	2048.7			534.5



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	28-Jul-12	0	248.4	52.5		458.1	2136.2			538.4
2012	28-Jul-12	1	161.4	18.515		456.6	1982.2			482.4
2012	28-Jul-12	2	120.6			449.7	1918.2			414.8
2012	28-Jul-12	3	93.4			450.1	1904.8			397.2
2012	28-Jul-12	4	88.3			451.4	1912.5			404.5
2012	28-Jul-12	5	83			450	1903.4			453.8
2012	28-Jul-12	6	230.2			450.4	1916			505.1
2012	28-Jul-12	7	575.5			445.9	2115.4			505.4
2012	28-Jul-12	8	883.9			448.8	2430.5			539.7
2012	28-Jul-12	9	873.8			523.1	2731.4			644.2
2012	28-Jul-12	10	884.9			859.3	2991			714.1
2012	28-Jul-12	11	1283.6			1164.6	2985.8			735.2
2012	28-Jul-12	12	1287.1			1130.6	2984.3			734.6
2012	28-Jul-12	13	1450.2			1860.6	3064.5			736
2012	28-Jul-12	14	1381.6			2000.3	3037.1			736.1
2012	28-Jul-12	15	1366.8			1974.1	3040.8			735.5
2012	28-Jul-12	16	1288			1934.8	3041.2			730.9
2012	28-Jul-12	17	1185.9			1938.9	3046.3			674.9
2012	28-Jul-12	18	1090.6			1909	3061.4			590.7
2012	28-Jul-12	19	975.9			1901.2	3038.2			579.5
2012	28-Jul-12	20	917.7			1244.8	2935.8			528.8
2012	28-Jul-12	21	237.5			672.7	2585.6			420.9
2012	28-Jul-12	22	302.4	0		522.1	2172.7			397.7
2012	28-Jul-12	23	363.7	0		513.5	2024.6			402.1
2012	29-Jul-12	0	230.7	0		525.2	1935.7			407.4
2012	29-Jul-12	1	207.8	0		525	1881.3			400.3
2012	29-Jul-12	2	201.6	4.9		529.6	1869			398.9
2012	29-Jul-12	3	211.3	1.7		530.8	1856			403.4
2012	29-Jul-12	4	171	0		533.7	1853.1			402.8
2012	29-Jul-12	5	126.3	0		535.6	1872.2			398.7
2012	29-Jul-12	6	145.6	0		538.4	1874.5			397.5
2012	29-Jul-12	7	178.4	5.5		536	1850.8			405
2012	29-Jul-12	8	158.7	2.2		542.9	1987.7			401.6
2012	29-Jul-12	9	177	0		514.2	2210.9			401.5
2012	29-Jul-12	10	417.9	0		503.6	2426.5			406.4
2012	29-Jul-12	11	968.5	0		503.3	2646.7			463.8
2012	29-Jul-12	12	1550.1	0		502.8	2687.9			562.4
2012	29-Jul-12	13	1572.8	17.7		510.4	2718.1			595.5
2012	29-Jul-12	14	1441.1	0		858.2	2955.5			755
2012	29-Jul-12	15	1324.1	0		1532.4	2996			752
2012	29-Jul-12	16	1474.1	0		1812.8	2992.3		0	747
2012	29-Jul-12	17	1614.9	0		1801.8	2965.3		0	684.5
2012	29-Jul-12	18	1843.5	0		1845.6	3006.4		17.8	561.4
2012	29-Jul-12	19	967	0		1283	2876.6		39.3	476.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	29-Jul-12	20	693.9	0		722.5	2840.2		42.8	412
2012	29-Jul-12	21	379.4	0		506	2520.2		52.1	443.8
2012	29-Jul-12	22	287.6	0		490.4	2083.3		53.2	427.9
2012	29-Jul-12	23	178.3	0		483.2	1827.8		57.6	411.6
2012	30-Jul-12	0	272.3	0		480.8	1865.2		57.4	404.1
2012	30-Jul-12	1	269	1.5		480.7	1851.3		58.2	403.7
2012	30-Jul-12	2	166.9	0		475.2	1845.3		58.1	403.3
2012	30-Jul-12	3	143.1	14.7	0.049	477.1	1840.7		66.7	403.5
2012	30-Jul-12	4	126.5	20.7	0.189	485	1832.8		82.4	406.3
2012	30-Jul-12	5	125.3	41.2	0.304	519.9	1940.4		88.4	419.3
2012	30-Jul-12	6	114.5	47.1	0.567	534.6	1953.2		127.4	406.2
2012	30-Jul-12	7	147.9	55.2	0.749	524.6	2153.6		155.7	403.7
2012	30-Jul-12	8	218.2	28	0.811	530.8	2485.9		233.4	397.6
2012	30-Jul-12	9	358.2	89.6	0.788	627.5	2792.6		331.3	422.9
2012	30-Jul-12	10	571.6	237.6	0.731	930.1	2973.7		365.4	456.8
2012	30-Jul-12	11	816.1	439	0.666	1415.7	2935.4		401.5	614.9
2012	30-Jul-12	12	1242.9	963.6	0.578	1817.9	2916.2		518.2	810.7
2012	30-Jul-12	13	1361.1	1246.7	0.74	1817.3	2969.7		536.2	807.6
2012	30-Jul-12	14	1373.1	1701.6	0.833	1753.7	2951.3		558.6	931.3
2012	30-Jul-12	15	1340.6	890.6	0.32	1976.5	2955.1		555.9	952.3
2012	30-Jul-12	16	1366.2	622.6		1998	3029.6		619.2	932.8
2012	30-Jul-12	17	1327	558.6		1933.2	3023.4		553.6	977.4
2012	30-Jul-12	18	1180.4	542.9		1900.2	2965.8		517.3	807.3
2012	30-Jul-12	19	1313.8	470.6		1223.8	2901.5		528.6	829
2012	30-Jul-12	20	1034.7	349.1		1323.8	2950.6		568.5	705.2
2012	30-Jul-12	21	677.4	188		336.412	2752.2		564.9	546.1
2012	30-Jul-12	22	763.9	205.4			2384.4		633.3	603.1
2012	30-Jul-12	23	564.1	158.2			2010.6		681.1	606.2
2012	31-Jul-12	0	331.2	81.3			1846.2		709	584.4
2012	31-Jul-12	1	249.8	79.4			1821.1		579.5	529.2
2012	31-Jul-12	2	182.6	87.9			1845.6		558.2	489.3
2012	31-Jul-12	3	164.7	107.5			1820.8		568.3	511.5
2012	31-Jul-12	4	150.3	125		0	1833.9		578.2	485.1
2012	31-Jul-12	5	172.8	116.1		0	1910.5		577	475.4
2012	31-Jul-12	6	177.4	140		0	1890.9		529.7	462.4
2012	31-Jul-12	7	234.6	95.6		83.8	2016.2		546.3	573.2
2012	31-Jul-12	8	228.9	61.3		370.1	2254.5		725.3	654.3
2012	31-Jul-12	9	284.9	108.6		426.3	2513.8		761.3	692.8
2012	31-Jul-12	10	567.4	241.1		415.8	2760.9		880.9	846.9
2012	31-Jul-12	11	1153.5	319.4		552.4	2822.2		899.1	977.2
2012	31-Jul-12	12	1694.7	406.6		778.3	2910.4		855.7	1093.4
2012	31-Jul-12	13	1634.7	351.1		1003	2934.1		856.5	1122.4
2012	31-Jul-12	14	1444.1	374.9		1184.6	2960.9		887.7	1083.5
2012	31-Jul-12	15	1445.9	349.8		1520.3	2966.8		964.1	1069.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	31-Jul-12	16	1355.3	408.9		1796.1	2984.1		1023.4	1132.3
2012	31-Jul-12	17	1467.6	436.1		1909.1	2943.8		970.7	1052.6
2012	31-Jul-12	18	1584.5	516.6		1886	2916.1		857.7	1030.5
2012	31-Jul-12	19	1353.9	458.9		1885.2	2905.5		985.7	1055
2012	31-Jul-12	20	1116.8	334.5		1759.5	2877.6		958.8	1104.8
2012	31-Jul-12	21	749.2	325		1014.8	2738.6		826.8	963
2012	31-Jul-12	22	494.4	220.4		553.7	2461.8		751.4	855.5
2012	31-Jul-12	23	351.1	205		464.7	2126.6		678	796.7
2012	1-Aug-12	0	212	152.8		458.2	1850.2		674.5	791.2
2012	1-Aug-12	1	144.1	168.1		454.1	1827.2		683.3	807.8
2012	1-Aug-12	2	307.7	407.1		462.5	1859.2		691.9	803.8
2012	1-Aug-12	3	407.4	501.5		473.3	1824.4		685.5	803.5
2012	1-Aug-12	4	427	667.1		476.3	1860.4		688	817.2
2012	1-Aug-12	5	441.9	606.7		478.7	1941		709.4	849.7
2012	1-Aug-12	6	490.5	670.8		479.2	2061.6		778.2	839.8
2012	1-Aug-12	7	581.7	583.3	0.096	480.2	2086.9		749.8	830.9
2012	1-Aug-12	8	855.4	711.5	0.121	519.1	2295.2		771	822.7
2012	1-Aug-12	9	1411.1	774.1	0.569	574.1	2663.3		718.1	804
2012	1-Aug-12	10	836.9	1309.5	0.223	764.1	2864.8		642	795.7
2012	1-Aug-12	11	936.1	854	0.227	1057.2	2924.7		747.9	935.1
2012	1-Aug-12	12	1146.3	542.6	0.248	1736.3	2929.5		926.2	1063.7
2012	1-Aug-12	13	1354.2	439.6	0.295	1876.9	2951		949.5	1038.9
2012	1-Aug-12	14	1608	557.2	0.26	1852.8	2955.5		933	1081.3
2012	1-Aug-12	15	1634.9	538.9	0.492	1922.9	2944.9		876.4	1032.4
2012	1-Aug-12	16	1680.1	535.1	0.885	1961.3	2962.2		901.8	1042.3
2012	1-Aug-12	17	1488.5	417.2	0.887	1970.5	2963.9		775.9	954.2
2012	1-Aug-12	18	1274	411.7	0.885	1969.5	2936.6		759.5	854.6
2012	1-Aug-12	19	1002.1	382.3	0.762	1952.8	2923.2		710.6	835.2
2012	1-Aug-12	20	957.8	333.6	0.086	1783.4	2960.6		622.4	726.3
2012	1-Aug-12	21	913.6	355		1003.4	2831.5		561.8	687.6
2012	1-Aug-12	22	645.6	259.6		531.5	2515.5		577.7	683.9
2012	1-Aug-12	23	417	166.9		477.2	2161.2		584	690.8
2012	2-Aug-12	0	222.6	108.7		470.5	1886.4		586.6	690.8
2012	2-Aug-12	1	141.7	115.1		466.8	1882.5		584.8	687
2012	2-Aug-12	2	138.3	127.3		464.1	1881.1		579.2	691.1
2012	2-Aug-12	3	138	145.3		465.4	1855.1		578	690.5
2012	2-Aug-12	4	130.4	172		466.9	1854.1		582.5	688.1
2012	2-Aug-12	5	119.3	125		465.9	1849.9		584.7	684.7
2012	2-Aug-12	6	124.1	130.2		465.9	1839.3		633.8	682.6
2012	2-Aug-12	7	131.9	112.4		460.5	1800.6		598.8	691.6
2012	2-Aug-12	8	223.7	81.4		470	2158.1		621.8	672.4
2012	2-Aug-12	9	418.3	189.8	0.077	551.1	2621.3		620.2	672.3
2012	2-Aug-12	10	695.3	306.5	0.224	751.7	2914.2		642.9	731.3
2012	2-Aug-12	11	790.4	250	0.253	1056.2	2951.6		630.7	765.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	2-Aug-12	12	1143.5	460.8	0.504	1415.3	3008.5		616.7	810.7
2012	2-Aug-12	13	1052.6	312	0.629	1951.7	2999.2		607.3	741.5
2012	2-Aug-12	14	998.8	375.2	0.62	1907.6	2923.3		638.4	699.4
2012	2-Aug-12	15	898.8	255.7	0.751	1909.1	2908.1		633.1	692.6
2012	2-Aug-12	16	915.1	352.2	0.896	1882.5	2895		654.6	729.7
2012	2-Aug-12	17	890.7	263.7	0.828	1903.5	2931.7		604	712.1
2012	2-Aug-12	18	1029.9	412	0.673	1907	2929.4		636	661.5
2012	2-Aug-12	19	1210.3	374.1	0.55	1930.6	2923.5		946.3	690.2
2012	2-Aug-12	20	1001.2	358.1	0.547	1923.1	2938.9	0.061	899.2	672.9
2012	2-Aug-12	21	774.5	224.8	0.274	1414.8	2861.6	0.113	868.4	674.1
2012	2-Aug-12	22	884	276.8	0.036	1044.5	2634.5	0.068	879.1	659.1
2012	2-Aug-12	23	748.7	202.4		605.9	2251.4	0.067	862.1	662.4
2012	3-Aug-12	0	543	172.7		490.2	1925.2	0.078	875.9	671.2
2012	3-Aug-12	1	368.7	113.2		481.2	1875.4	0.065	876	675.8
2012	3-Aug-12	2	275.4	97.1		473.5	1869.3	0.057	876.8	676
2012	3-Aug-12	3	271.1	101		469.9	1835.8	0.056	862.5	669.2
2012	3-Aug-12	4	265.3	127.6		460.3	1822.5	0.053	854.5	663.8
2012	3-Aug-12	5	264.2	106		442.9	1814.2	0.059	793.5	665.9
2012	3-Aug-12	6	229.9	91.8		442.7	1807.2	0.047	612	644.7
2012	3-Aug-12	7	267.2	71.1	0.1	441.2	1834.6	0.046	580.7	651.8
2012	3-Aug-12	8	408.4	28.2	0.233	566.7	2269.4	27.894	605.6	714.6
2012	3-Aug-12	9	749.3	86.9	0.301	721.7	2582.3	189.7	679.3	839.3
2012	3-Aug-12	10	1293.6	276.7	0.51	911.6	2701.7	311.68	717.3	904.6
2012	3-Aug-12	11	1670.8	362.5	0.75	1289.1	2858.9	376.709	798.4	938.6
2012	3-Aug-12	12	640.4	606	0.724	1470.1	2868.3	424.504	799	908.4
2012	3-Aug-12	13	565.8	418.9	0.656	1154	2786.3	442.282	753.7	858.8
2012	3-Aug-12	14	437	476.7	0.681	1230.8	2936.5	469.394	761.6	874.6
2012	3-Aug-12	15	377.5	300.5	0.855	1795.9	2962.1	485.891	790.4	878.8
2012	3-Aug-12	16	325	344.8	0.78	1867.8	2894.3	123.307	793.1	888.4
2012	3-Aug-12	17	319.4	255.1	0.579	1873.6	2827		798.2	935.1
2012	3-Aug-12	18	519.8	564.5	0.549	1828.1	2797.5		819.5	968.9
2012	3-Aug-12	19	548.4	501.1	0.782	1918.4	2882.6		809	949.5
2012	3-Aug-12	20	364.9	244.3	0.82	1915.1	2878.9		772.4	872.4
2012	3-Aug-12	21	297.7	178.3	0.511	1511.4	2661.3		647.2	743.2
2012	3-Aug-12	22	371.6	214.7	0.179	936.1	2299		523.6	623.5
2012	3-Aug-12	23	404.5	173.6		527.1	2013.6		519.4	621.8
2012	4-Aug-12	0	515.7	470		483.2	1877.9		538.4	594.5
2012	4-Aug-12	1	540.3	779.2		439.4	1826.2		575.4	587.4
2012	4-Aug-12	2	664.3	524.3		424.4	1868.6		565.8	598.2
2012	4-Aug-12	3	518.2	520.5		424.5	1847.1		557.6	611.7
2012	4-Aug-12	4	427.5	496		423.4	1848.4		560.3	635.2
2012	4-Aug-12	5	413.7	478.9		422.9	1855.4		608.9	790.5
2012	4-Aug-12	6	424.1	533.4		422.2	1896.8		601.2	836.2
2012	4-Aug-12	7	547.9	546		447	2020.2		641.3	893.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-Aug-12	8	953.1	958.4		731	2516.6		714.6	984.8
2012	4-Aug-12	9	1421.5	1741		1344	2833.4		691.1	924.2
2012	4-Aug-12	10	554.9	1026.8		1758.7	2870.6		760.8	966.9
2012	4-Aug-12	11	745.5	715.5		1786.6	2876.7		761.2	944
2012	4-Aug-12	12	1059.3	802.3		1786.4	2882.8		801.3	941.6
2012	4-Aug-12	13	1156.4	496.8		1768	2873.1		693.8	964
2012	4-Aug-12	14	1042.2	660.5		1782.1	2854.7		772.2	954.5
2012	4-Aug-12	15	976.3	514.2		1816.2	2927.2		856.1	960.9
2012	4-Aug-12	16	1182.7	671.4		1810.7	2909		894	964.5
2012	4-Aug-12	17	1606.5	586.6		1643	2904.5		885.7	960.9
2012	4-Aug-12	18	1531.3	1066.2		1792.8	2922.6		883.8	942.2
2012	4-Aug-12	19	1544.8	761.7		1825.8	2941.5		833.6	940
2012	4-Aug-12	20	1304.1	785.8		1594.2	2873.7		815.5	875.7
2012	4-Aug-12	21	1393.4	599.3		1781.9	2925.9		797.8	894.6
2012	4-Aug-12	22	1407.5	707.4		1787.5	2949.2		755	818.7
2012	4-Aug-12	23	1306.4	581.4		1778	2995.1		588.3	655
2012	5-Aug-12	0	939.8	417.3		1014.1	2785.2		567.8	732.6
2012	5-Aug-12	1	646.8	351.8		549.8	2237.1		578.1	686
2012	5-Aug-12	2	629.8	439.5		438.9	1845.7		575.7	668.2
2012	5-Aug-12	3	988.7	841.8		434.7	1839.9		573.7	664.7
2012	5-Aug-12	4	380.6	452.7		436.8	1859.9		596.4	715.1
2012	5-Aug-12	5	230.1	245.8		433.1	1995.3		669.5	827
2012	5-Aug-12	6	232.2	202		430.4	2015.2		671.6	862.6
2012	5-Aug-12	7	251.2	130.9		421.8	2278.9		653.3	811.6
2012	5-Aug-12	8	242.8	71.1		751.1	2697.5		699.6	834.4
2012	5-Aug-12	9	480.7	162.1		991.2	2938.7		716.8	855.4
2012	5-Aug-12	10	812.8	448.2		987.2	2877.8		780.2	870.8
2012	5-Aug-12	11	1209.6	424.9		1049.8	2907.7		745.8	808.7
2012	5-Aug-12	12	1380.6	824.4		1331.1	2966.3		709.1	886.5
2012	5-Aug-12	13	1271.1	345		1547.3	2927.2		573.4	883.7
2012	5-Aug-12	14	1162	513.1		1571	2919.6		527.4	883.5
2012	5-Aug-12	15	1084.9	367.2		1552.1	3009.5		720.2	867.3
2012	5-Aug-12	16	1034.2	503.4		1564.9	2987.3		770.6	860.6
2012	5-Aug-12	17	1001.3	345.5		1366.9	2931.5		766.6	850.9
2012	5-Aug-12	18	794.2	374.9		808.4	2624.6		774	834.4
2012	5-Aug-12	19	928.9	246.4		587.7	2705.4		776.7	845.9
2012	5-Aug-12	20	787.8	221		488.5	2626.3		730.5	769.4
2012	5-Aug-12	21	519.2	167.4		465.8	2238.4		567.4	587.3
2012	5-Aug-12	22	604.9	212.8		476	2316.8		489.7	565.5
2012	5-Aug-12	23	598.1	304.1		469.1	2172.8		489.5	574.5
2012	6-Aug-12	0	326.3	261.1		480.2	1879.7		510.7	568.2
2012	6-Aug-12	1	267.8	274		480.9	1873		511.9	564.5
2012	6-Aug-12	2	191.9	237.9		477.4	1886.3		525.1	563.8
2012	6-Aug-12	3	165.6	164.8		480.2	1868.9		501.5	560.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	6-Aug-12	4	60.06	153.5		481.8	2038.9		503.6	580.8
2012	6-Aug-12	5	12.045	131.7		486.9	2246.7		492.4	568.1
2012	6-Aug-12	6	49.6	174.6		488.7	2445.6		493.2	574.8
2012	6-Aug-12	7	69.9	195		481.6	2490.6		503.3	580.6
2012	6-Aug-12	8	114.9	256.4		550.4	2756.9		509.7	604.4
2012	6-Aug-12	9	182.3	397		808.7	2996.8		503	585.1
2012	6-Aug-12	10	311.4	726.5		1374.5	3012.2		519.2	598.7
2012	6-Aug-12	11	748.1	579.7		1109.6	2967.4		504.9	601
2012	6-Aug-12	12	935.6	609.4		896	2874.6		574.3	705.9
2012	6-Aug-12	13	376.9	468.5		1094.2	2868.4		621.7	749.4
2012	6-Aug-12	14	893	759.1		1209.6	2897.6		619.9	800.1
2012	6-Aug-12	15	1127.3	485.3		1904.4	2894		670.4	806.4
2012	6-Aug-12	16	1196	548.1		1895.9	2919.3		761.2	853.8
2012	6-Aug-12	17	1253.6	477.8		1552.8	2878.1		740.7	844.9
2012	6-Aug-12	18	1509	716.1		1148.9	2958.2		605.2	718.6
2012	6-Aug-12	19	1324.4	601.9		1057.1	2913		589.9	733.6
2012	6-Aug-12	20	533.9	718		1085.6	2832.7		586.7	733.4
2012	6-Aug-12	21	331.9	351.6		595.9	2480.4		521.3	599.4
2012	6-Aug-12	22	204.7	211		545.4	1952.7		567.9	608.6
2012	6-Aug-12	23	285.4			524.1	1913.1		570.4	686.2
2012	7-Aug-12	0	241.8			521.7	1907.1		574.7	628.6
2012	7-Aug-12	1	209			521.6	1883.1		605.8	633.9
2012	7-Aug-12	2	231.1			518.9	1884.5		572.8	630.5
2012	7-Aug-12	3	219.5	4.756		520.6	1869.8		564.2	594.9
2012	7-Aug-12	4	205.8	2.8		523.1	1865.2		538.1	608
2012	7-Aug-12	5	178.6	9.1		519.9	1867.3		545.9	613.8
2012	7-Aug-12	6	160.1	5.4		521.5	1890.4		554.2	617.8
2012	7-Aug-12	7	149.2	21.9		516.3	2215.8		593.2	626.3
2012	7-Aug-12	8	146.4	10		522.7	2644.4		740.8	614.7
2012	7-Aug-12	9	135.7	8.8		525.1	2934.6		739.1	621.4
2012	7-Aug-12	10	181.6	6.3		528.7	2945.8		769.3	753.5
2012	7-Aug-12	11	372	13.6		532.7	2917.5		736.7	776.6
2012	7-Aug-12	12	522	22.7		615.1	2925.5		779.1	870.6
2012	7-Aug-12	13	841.7	84.5		824.1	2925.2		766.8	878.2
2012	7-Aug-12	14	1122.5	566.9		1310.1	2905.6		767.5	876.6
2012	7-Aug-12	15	1167.4	935.7		1750.4	2908.7		766.1	874.9
2012	7-Aug-12	16	1305.2	856.8		1841.5	2916.2		769.6	868.5
2012	7-Aug-12	17	1008.1	438.8		1586.5	2915.9		740.5	830.1
2012	7-Aug-12	18	1160.6	480.2		1345.9	2809.1		635.3	678.3
2012	7-Aug-12	19	1207.5	415.6		888	2659.9		661.4	734.2
2012	7-Aug-12	20	1288.2	533.7		770.5	2714.2		593	634.4
2012	7-Aug-12	21	799.8	231.9		538.5	2298.1		546.6	586.9
2012	7-Aug-12	22	517.8	155.9		527.5	2065.5		495.6	576.2
2012	7-Aug-12	23	309.6	125.8		496	1920.3		490.5	552.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-Aug-12	0	176.4	116.7		494.4	1880.5		492.9	460.6
2012	8-Aug-12	1	123.5	78.4		490.6	1903.5		491.3	444.2
2012	8-Aug-12	2	109.9	50.8		491.9	1907.1		494.4	452.4
2012	8-Aug-12	3	107	52.9		491.1	1905.4		494.7	452.8
2012	8-Aug-12	4	98.9	27.8		490.5	1907.4		491.2	456.3
2012	8-Aug-12	5	136.3	39.3		489.3	1901.3		566.8	458.6
2012	8-Aug-12	6	149.7	41.1		482.5	1890.3		500.9	451.2
2012	8-Aug-12	7	155	60.8		480.9	1851		515.1	458.8
2012	8-Aug-12	8	118.3	20.3		478.7	2062.1		540.7	477.7
2012	8-Aug-12	9	184.3	47.1		477	2592.2		589	580.7
2012	8-Aug-12	10	339.4	85.4		474.4	2886.9		642.4	715.9
2012	8-Aug-12	11	349.5	98.8		473.2	2921.3		745.2	885.7
2012	8-Aug-12	12	776.2	162.2		659.8	2955.7		775.3	897.5
2012	8-Aug-12	13	1207	265.8		669.9	2946.6		688	773.4
2012	8-Aug-12	14	906.4	317.9		1366.8	2927.8		647.7	740
2012	8-Aug-12	15	853.8	278		1751.8	2905.2		629.6	726.5
2012	8-Aug-12	16	808.8	409.4		1705.7	2910.2		618.5	684.4
2012	8-Aug-12	17	1140.1	376.2		1638.4	2913.5		538.4	502.1
2012	8-Aug-12	18	941.5	475.5		1423.2	2774.1		526.7	436
2012	8-Aug-12	19	860.3	302.4		1202.3	2682.5		518.6	433.8
2012	8-Aug-12	20	820.6	443		1130.5	2865.7		526.2	440.3
2012	8-Aug-12	21	521	258.1		672.2	2539.1		527.8	428.6
2012	8-Aug-12	22	327	193.7		490.9	2102.8		511.4	423.8
2012	8-Aug-12	23	280.8	122.7		491.6	2032.1		506.8	424.6
2012	9-Aug-12	0	178.9	86.9		493.9	1883.3		516.6	438.3
2012	9-Aug-12	1	143.1	86.1		493.9	1867.2		512.4	422.8
2012	9-Aug-12	2	111.2	61.3		493.6	1863.1		505.9	433.8
2012	9-Aug-12	3	106.5	65.5		496.4	1868.2		496.3	427.5
2012	9-Aug-12	4	106.9	55.6		447.5	1870.7		520.2	429.3
2012	9-Aug-12	5	88.9	50.8		496.1	1934.3		505.7	435.1
2012	9-Aug-12	6	83.5	45.3		494.7	1879.8		498.9	436.3
2012	9-Aug-12	7	96	49.4		490.7	1835.1		497.5	434.8
2012	9-Aug-12	8	88.7	15.4		497.1	2224.7		497	439.8
2012	9-Aug-12	9	135.2	35.2		497.7	2713.5		493.5	422.2
2012	9-Aug-12	10	206.6	111.9		500.9	2884		495.9	431.4
2012	9-Aug-12	11	368.1	142.4		551.7	2864.5		492	435.7
2012	9-Aug-12	12	632.4	312.5		901.9	2908.1		492.9	443.9
2012	9-Aug-12	13	867.9	311		1202	2894.1		497.2	449.2
2012	9-Aug-12	14	1034	482.8		1622.4	2877.1		493.7	442.3
2012	9-Aug-12	15	1244.8	446.8		1863.3	2845.3		508.4	439.9
2012	9-Aug-12	16	1151.7	480.4		1816.2	2850.6		499.7	439.2
2012	9-Aug-12	17	945.2	455.1		1413.7	2880.1		493.7	434.2
2012	9-Aug-12	18	909.2	561.9		913.7	2750.4		497.8	439.3
2012	9-Aug-12	19	1010.1	613.5		595.1	2607.9		499	462.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	9-Aug-12	20	1077.5	617.3		509.3	2499		495.1	431.4
2012	9-Aug-12	21	764.7	323		500.8	2087.7		498	432
2012	9-Aug-12	22	642.8	218.4		530.8	1957.2		495.2	429.3
2012	9-Aug-12	23	479.8	164.1		512.1	1834.3		491.6	428.2
2012	10-Aug-12	0	261.3	160.5		507.7	1856.9		491.7	425.9
2012	10-Aug-12	1	186.2	207.2		504.6	1824.2		490.7	425.9
2012	10-Aug-12	2	151.6	124.2		504.9	1806.4		519.3	426
2012	10-Aug-12	3	105	98.3		510.1	1811.9		502.9	423.8
2012	10-Aug-12	4	88.7	109.9		504.6	1826.2		504	426.6
2012	10-Aug-12	5	97	106.3		503.5	1855.2		494.5	428.6
2012	10-Aug-12	6	108	127		493.3	1801		498.7	435.3
2012	10-Aug-12	7	113.8	83.2		482.2	1793		502.3	436.6
2012	10-Aug-12	8	99.3	31		485.3	1925.5		505.3	430.6
2012	10-Aug-12	9	105.2	42.6		480.3	2080.5		530.3	436.2
2012	10-Aug-12	10	107.4	47		480.8	2622		532	437.6
2012	10-Aug-12	11	107.6	43.4		488.4	2845.1		528.4	447.2
2012	10-Aug-12	12	114	64.8		486.1	2822.8		517.1	443
2012	10-Aug-12	13	157.4	94.5		487.1	2810		516.9	442.7
2012	10-Aug-12	14	287.4	144.6		538	2804.8		526.1	436.8
2012	10-Aug-12	15	445.8	210		829.3	2817.5		518.3	433.1
2012	10-Aug-12	16	956.2	396.3		995.4	2821.2		546.6	432.6
2012	10-Aug-12	17	1045	414.5		980	2823.1		520.9	429.5
2012	10-Aug-12	18	505.8	382.9		706.2	2819.8		515	432.3
2012	10-Aug-12	19	570.6	483.3		505.1	2810.2		518.4	435.2
2012	10-Aug-12	20	610.6	408.7		524.4	2813.7		521.6	432
2012	10-Aug-12	21	326.4	253.6		472.4	2540.6		518.1	423.5
2012	10-Aug-12	22	109.8	105		470.7	2161.1		512.4	427.9
2012	10-Aug-12	23	240.5	456.3		470.5	1853.7		511.5	425.3
2012	11-Aug-12	0	208.9	432.4		471	1833.1		510.2	429.7
2012	11-Aug-12	1	119.4	347.9		468.9	1839.6		509.8	462.9
2012	11-Aug-12	2	138	325.6		468.1	1781.1		511.7	417.5
2012	11-Aug-12	3	122.3	284.6		466.1	1802		507.7	433.3
2012	11-Aug-12	4	100.5	346.3		462.2	1803.5		501.9	423.2
2012	11-Aug-12	5	98	336.2		461.3	1801.7		500.6	426.2
2012	11-Aug-12	6	132.4	452.9		460.8	1806.8		524.3	433.6
2012	11-Aug-12	7	176.2	335.4		457.4	1752.3		537.8	436.4
2012	11-Aug-12	8	165.9	307.2		464.7	1761.5		539.3	682.8
2012	11-Aug-12	9	159.4	290.4		465.1	1798.9		530.3	521.7
2012	11-Aug-12	10	246.4	492.3		756.4	2171		528.4	457.1
2012	11-Aug-12	11	480.5	844.3		916.6	2566.4		540.9	438.3
2012	11-Aug-12	12	497	460.6		772.7	2549.7		545.3	418.8
2012	11-Aug-12	13	845	353.9		641.7	2549.6		534.9	441.5
2012	11-Aug-12	14	593.7	407.9		726	2780.1		531.7	440.3
2012	11-Aug-12	15	525.4	215.4		678.7	2797.6		527.6	452.1



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	11-Aug-12	16	443.7	203.8		662.7	2707.6		522.5	511.4
2012	11-Aug-12	17	501.5	190.4		495.9	2425.6		519.8	449.3
2012	11-Aug-12	18	501.7	202.4		490.1	2080.7		506.1	442
2012	11-Aug-12	19	590.4	221.8		501.5	2037		511.8	435
2012	11-Aug-12	20	503.3	190.8		495.4	1981.4		528.1	432.7
2012	11-Aug-12	21	304.9	153.8		464.2	1815.4		525.8	423.9
2012	11-Aug-12	22	248.7	123.8		466	1808.3		517.7	469.2
2012	11-Aug-12	23	205.3	145.8		468.5	1804.2		514.7	553.3
2012	12-Aug-12	0	146.3	118.6		462.7	1815.9		508.4	457.4
2012	12-Aug-12	1	116.9	98.4		461.7	1796.7		475.8	437.5
2012	12-Aug-12	2	262.5	95.4		460.7	1791.7		474.6	438.8
2012	12-Aug-12	3	489.7	81.3		459.5	1792.9		475.1	426.1
2012	12-Aug-12	4	512.5	86.6		462.6	1792.7		521.5	399.6
2012	12-Aug-12	5	471.1	266.6		460.7	1785.5		494.8	399.1
2012	12-Aug-12	6	501.3	430.2		462.8	1642.3		482.6	405.7
2012	12-Aug-12	7	580.6	293		457	1781.2		501.8	312.5
2012	12-Aug-12	8	596.2	255.5		459.7	1793.5		500.4	248.9
2012	12-Aug-12	9	611.8	281.6		459.9	1791.6		499.8	16.455
2012	12-Aug-12	10	605.7	407.1		462	1791.1		493.1	
2012	12-Aug-12	11	596.2	295.1		467.9	1790.5		492.7	
2012	12-Aug-12	12	364.3	346.7		470.9	1800.6		500.5	
2012	12-Aug-12	13	553.1	120.2		469.8	1811.3		504.2	
2012	12-Aug-12	14	808.8	211.9		465.3	2060.5		500	
2012	12-Aug-12	15	1062.5	194.2		517.3	2238.9		554.4	
2012	12-Aug-12	16	1403.9	321.6		550.4	2423.1		546.5	
2012	12-Aug-12	17	1494.4	225.7		537	2585.9		510.7	
2012	12-Aug-12	18	1261.5	207.9		476	2253.8		504.9	
2012	12-Aug-12	19	844.6	229.5		475	2017.7		520.1	
2012	12-Aug-12	20	636.9	211.4		476	1871.6		488.2	
2012	12-Aug-12	21	503.4	219.4		477.6	1798.1		524.6	
2012	12-Aug-12	22	318.3	207.3		478	1794.1		507.2	
2012	12-Aug-12	23	258.7	176.6		475.4	1781.3		543.4	
2012	13-Aug-12	0	192.1	158.3		477.4	1808.2		574	
2012	13-Aug-12	1	174.3	335		476.9	1775.8		618.1	
2012	13-Aug-12	2	181	637.4		479.5	1780.6		481.5	
2012	13-Aug-12	3	200.8	582.5		474.9	1779.1		412.5	
2012	13-Aug-12	4	680.9	668.6		471.9	1781		412.6	
2012	13-Aug-12	5	712.9	572.7		465.8	1776.6		379.1	
2012	13-Aug-12	6	744.3	391.3		465	1771.4		281.3	
2012	13-Aug-12	7	762.7	147		421.5	1752.7		121.072	
2012	13-Aug-12	8	377.7	43.8		447.8	1833.2			
2012	13-Aug-12	9	207.2	68		452.3	2151.5			
2012	13-Aug-12	10	308.3	123		451.3	2427			
2012	13-Aug-12	11	423.9	183.5		447.8	2534.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	13-Aug-12	12	649	467.5		574.4	2739.8			
2012	13-Aug-12	13	1080.2	537.1		849.8	2744			
2012	13-Aug-12	14	1333.2	811.5		1024.7	2743.6			
2012	13-Aug-12	15	1481.5	641.9		1545.6	2764.6			
2012	13-Aug-12	16	1289.5	799.6		1820	2740.8			
2012	13-Aug-12	17	1349.9	684.5		1758.6	2749.8			
2012	13-Aug-12	18	1352.4	725.7		1281.8	2635.5			
2012	13-Aug-12	19	1626.9	803.6		1037.5	2625.5			
2012	13-Aug-12	20	1266.5	734.8		960.4	2582			
2012	13-Aug-12	21	888.9	515		530	2199.9			
2012	13-Aug-12	22	607.3	375.7		420.3	1879.1			
2012	13-Aug-12	23	439.9	605.8		416.6	1794.2			
2012	14-Aug-12	0	242.4	598.6		412.6	1736.7			
2012	14-Aug-12	1	169.9	526.9		422.2	1755.5			
2012	14-Aug-12	2	167.2	550.5		456.2	1734.2			
2012	14-Aug-12	3	162	493.4		458	1719.5			
2012	14-Aug-12	4	142.4	542.2		455	1723.4			
2012	14-Aug-12	5	147.1	435		453.5	1723.5			
2012	14-Aug-12	6	144.8	448.6		451	1728.7			
2012	14-Aug-12	7	165.1	299.1		444.4	1662.4			
2012	14-Aug-12	8	163.3	297.8		449.1	1742.5			
2012	14-Aug-12	9	148.6	441.5		451.7	1992.9			
2012	14-Aug-12	10	156.9	745.5		453.4	2478.7			
2012	14-Aug-12	11	193.9	854.2		469.1	2714.3			
2012	14-Aug-12	12	343.3	537.3		887.4	2735.7			
2012	14-Aug-12	13	349.8	462		1684.2	2752.2			
2012	14-Aug-12	14	459	613.9		1687.5	2769.6			
2012	14-Aug-12	15	455.2	698.3		1749.3	2750.3			
2012	14-Aug-12	16	881.1	613.7		1799.4	2750			
2012	14-Aug-12	17	1290.5	811.3		1595.9	2710			
2012	14-Aug-12	18	1501.2	805.5		1226.7	2663.6			
2012	14-Aug-12	19	1547.3	940		748.8	2690.7			
2012	14-Aug-12	20	1241.8	671.4		704.2	2568.2			
2012	14-Aug-12	21	953.5	545		530.3	2207.3			
2012	14-Aug-12	22	550.9	752		529.7	1837.2			
2012	14-Aug-12	23	359.5	793		520.2	1737.2			
2012	15-Aug-12	0	630.2	717.8	0.053	517.4	1729.1			
2012	15-Aug-12	1	616.2	453.8	0.072	514.3	1732.6			
2012	15-Aug-12	2	445.3	416.8	0.107	499.6	1694.1			
2012	15-Aug-12	3	477.8	435.4	0.228	496.2	1698			
2012	15-Aug-12	4	466.3	503.9	0.231	498.8	1703.9			
2012	15-Aug-12	5	389.9	315.1	0.24	458.6	1708.3			
2012	15-Aug-12	6	413.2	360.3	0.373	439.4	1701			
2012	15-Aug-12	7	438.4	227.7	0.406	435.8	1686.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-Aug-12	8	470.4	178.3	0.406	460.6	1963.4			
2012	15-Aug-12	9	755.8	357.1	0.407	649.3	2389.1			
2012	15-Aug-12	10	518.6	770.3	0.408	1180.6	2667.5			
2012	15-Aug-12	11	684.4	934.8	0.408	1842.6	2724.5			
2012	15-Aug-12	12	991.7	625.7	0.315	1875.6	2737.9			
2012	15-Aug-12	13	1106.8	567.4	0.244	1877.7	2724			
2012	15-Aug-12	14	1208.7	693	0.244	1886.3	2731.5			
2012	15-Aug-12	15	1124.1	610.2	0.204	1916.3	2729.4			
2012	15-Aug-12	16	602.1	452.9		1906.9	2692.4			
2012	15-Aug-12	17	254.4	212.7		1882.2	2721.3			
2012	15-Aug-12	18	144.8	124.4		1855.5	2734.2			
2012	15-Aug-12	19	191.6	79.3		1837	2737.8			
2012	15-Aug-12	20	377.4	57.1		1823.6	2717.1			
2012	15-Aug-12	21	387.8	56.9		1748.1	2666.6			
2012	15-Aug-12	22	392	45		941.4	2322			
2012	15-Aug-12	23	384.7	42.9		529.1	1907.5			
2012	16-Aug-12	0	360.7	25.9		469.8	1740.8			
2012	16-Aug-12	1	362	30.3		463.7	1725.1			
2012	16-Aug-12	2	387.2	19		459.9	1741.7			
2012	16-Aug-12	3	377	26.4		460.4	1729.4			
2012	16-Aug-12	4	360.9	15.2	0.048	459.7	1722.1			
2012	16-Aug-12	5	370	19.7	0.079	453.5	1724.8			
2012	16-Aug-12	6	366.7	11.6	0.056	433.2	1719.9			
2012	16-Aug-12	7	368.4	38.4	0.079	431.5	1678.1			
2012	16-Aug-12	8	366.4	12.9	0.246	436.6	1777			
2012	16-Aug-12	9	351	11.8	0.253	436	1826.6			
2012	16-Aug-12	10	376.9	6.3	0.243	439.2	1934.4			
2012	16-Aug-12	11	358.7	13.4	0.3	460.8	2356.4			
2012	16-Aug-12	12	577.7	16.3	0.558	444.7	2630.1			
2012	16-Aug-12	13	757.7	41.3	0.653	517.8	2626.6			
2012	16-Aug-12	14	576.7	98.5	0.67	469.8	2648.7			
2012	16-Aug-12	15	806.6	208	0.626	494.9	2634.1			
2012	16-Aug-12	16	870.6	338.4	0.657	540.3	2600			
2012	16-Aug-12	17	870.3	365.3	0.571	653.5	2590.6			
2012	16-Aug-12	18	793.9	399.9	0.283	551.6	2565.1			
2012	16-Aug-12	19	517.9	325	0.229	533.9	2534.5			
2012	16-Aug-12	20	361.7	260.9	0.226	526.2	2525.6			
2012	16-Aug-12	21	307.7	191	0.003	529.8	2431.3			
2012	16-Aug-12	22	430.3	170.9		524.7	2053.6			
2012	16-Aug-12	23	513.8	307.4		527.4	1641.3			
2012	17-Aug-12	0	413.5	252.8		523.8	1589.2			
2012	17-Aug-12	1	351	234.2		467.1	1588.6			
2012	17-Aug-12	2	356.7	266		443.1	1599.2			
2012	17-Aug-12	3	380.1	225.9		446.1	1594.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	17-Aug-12	4	354.3	250.4		445.8	1579			
2012	17-Aug-12	5	368.2	191.4	0.02	444.4	1593.8			
2012	17-Aug-12	6	369	225.1	0.077	444.1	1582.6			
2012	17-Aug-12	7	364.4	162.6	0.086	437.7	1542.8			
2012	17-Aug-12	8	394.9	106.9	0.234	446	1622.6			
2012	17-Aug-12	9	345.2	134.8	0.222	447.7	1695.1			
2012	17-Aug-12	10	383.9	276	0.243	450.3	2102.8			
2012	17-Aug-12	11	565.8	365.4	0.457	460.1	2455.2			
2012	17-Aug-12	12	1187.9	865.5	0.669	642.6	2455.6			
2012	17-Aug-12	13	911.1	1146.9	0.703	668.8	2465.5			
2012	17-Aug-12	14	1013.1	1778.2	0.898	1116.1	2451.8			
2012	17-Aug-12	15	1084.2	845.1	0.886	1679.2	2457.4			
2012	17-Aug-12	16	1088.6	709.6	0.736	1375.1	2442.6			
2012	17-Aug-12	17	720	464	0.683	1270.8	2451.3			
2012	17-Aug-12	18	506	300	0.431	1159.5	2467.7			
2012	17-Aug-12	19	485.6	191.7	0.226	858.3	2479.1			
2012	17-Aug-12	20	434	223.7	0.115	556.2	2487			
2012	17-Aug-12	21	375.9	387.8		483.7	2493.9			
2012	17-Aug-12	22	646.5	367.6		473.3	2493.9			
2012	17-Aug-12	23	655.8	298.6		473.5	2322.5			
2012	18-Aug-12	0	524.6	317		72.594	1687.4			
2012	18-Aug-12	1	404.4	309.2		0	1405.2			
2012	18-Aug-12	2	361.3	327.4		0	352.992			
2012	18-Aug-12	3	363.1	281.2		0				
2012	18-Aug-12	4	334.8	286						
2012	18-Aug-12	5	337.5	211.6						
2012	18-Aug-12	6	340.1	264.2		0				
2012	18-Aug-12	7	339.5	185.4		0				
2012	18-Aug-12	8	345	107.5		0				
2012	18-Aug-12	9	336.1	117.9		0				
2012	18-Aug-12	10	334.4	178.7						
2012	18-Aug-12	11	291.6	143.1						
2012	18-Aug-12	12	283.3	192.9		0				
2012	18-Aug-12	13	298.8	180.1		0				
2012	18-Aug-12	14	331.5	241.5		0				
2012	18-Aug-12	15	322.2	200.7		0				
2012	18-Aug-12	16	425.7	404.6						
2012	18-Aug-12	17	485.8	437.9						
2012	18-Aug-12	18	428.5	505.7						
2012	18-Aug-12	19	342	327						
2012	18-Aug-12	20	321.4	395.6						
2012	18-Aug-12	21	327.4	223.6						
2012	18-Aug-12	22	333.2	267.2						
2012	18-Aug-12	23	347.2	219.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-Aug-12	0	330.5	262.2						
2012	19-Aug-12	1	338.2	198						
2012	19-Aug-12	2	340.6	232.9						
2012	19-Aug-12	3	342.9	188.3						
2012	19-Aug-12	4	331.3	215.9						
2012	19-Aug-12	5	340.6	160.7						
2012	19-Aug-12	6	352.4	203.4						
2012	19-Aug-12	7	337.2	148.1						
2012	19-Aug-12	8	355.6	55.8						
2012	19-Aug-12	9	326	81.1						
2012	19-Aug-12	10	331.2	107.2						
2012	19-Aug-12	11	338	99						
2012	19-Aug-12	12	296.2	138.8						
2012	19-Aug-12	13	335.8	74.9						
2012	19-Aug-12	14	331	49.4						
2012	19-Aug-12	15	323.3	78.1						
2012	19-Aug-12	16	323.2	100.4						
2012	19-Aug-12	17	331	98.1						
2012	19-Aug-12	18	339.1	140.9						
2012	19-Aug-12	19	335.1	123.2						
2012	19-Aug-12	20	334.4	159.4						
2012	19-Aug-12	21	338.9	136.4						
2012	19-Aug-12	22	337.3	169.5	0.054					
2012	19-Aug-12	23	334.4	145.8	0.052					
2012	20-Aug-12	0	333.2	190.2	0.052					
2012	20-Aug-12	1	342.3	111.5	0.058					
2012	20-Aug-12	2	345.8	65.7	0.063					
2012	20-Aug-12	3	346.2	118.4	0.042					
2012	20-Aug-12	4	346.2	175.3	0.037					
2012	20-Aug-12	5	346.2	146.7	0.037					
2012	20-Aug-12	6	351.6	179.4	0.037					
2012	20-Aug-12	7	377.9	134.1	0.037					
2012	20-Aug-12	8	383.6	54.8	0.037					
2012	20-Aug-12	9	384.8	94.3	0.037					
2012	20-Aug-12	10	544.5	184.6	0.037					
2012	20-Aug-12	11	546	200.1	0.037					
2012	20-Aug-12	12	488.7	291	0.037					
2012	20-Aug-12	13	542.5	401.2	0.037					
2012	20-Aug-12	14	731.1	769.1	0.037					
2012	20-Aug-12	15	568.7	1092	0.037					
2012	20-Aug-12	16	305.7	1048.4	0.063					
2012	20-Aug-12	17	210.1	916.9	0.074					
2012	20-Aug-12	18	155.2	750	0.013					
2012	20-Aug-12	19	132.4	676.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	20-Aug-12	20	97.5	501.1						
2012	20-Aug-12	21	76.2	503.2						
2012	20-Aug-12	22	74.5	408.7						
2012	20-Aug-12	23	74.3	344.4						
2012	21-Aug-12	0	69.1	314.8						
2012	21-Aug-12	1	66.2	303.3						
2012	21-Aug-12	2	72.8	308.9						
2012	21-Aug-12	3	70.7	279.8						
2012	21-Aug-12	4	67.9	295.2						
2012	21-Aug-12	5	65.3	243.6						
2012	21-Aug-12	6	67.5	282.2						
2012	21-Aug-12	7	68.6	172.9						
2012	21-Aug-12	8	63.3	29						
2012	21-Aug-12	9	41.3	24.5						
2012	21-Aug-12	10	39.9	22.3						
2012	21-Aug-12	11	38.2	29.6	0.039					
2012	21-Aug-12	12	68.6	42.4	0.066					
2012	21-Aug-12	13	179.8	116.5	0.04					
2012	21-Aug-12	14	341.2	293.1	0.037					
2012	21-Aug-12	15	425.5	456.3	0.037					
2012	21-Aug-12	16	453.7	523.4	0.037					
2012	21-Aug-12	17	875.6	675.5	0.062					
2012	21-Aug-12	18	1101.5	625.9	0.064					
2012	21-Aug-12	19	943.9	614.5	0.003					
2012	21-Aug-12	20	638	390.9						
2012	21-Aug-12	21	404.1	269.8						
2012	21-Aug-12	22	467.6	261.7						
2012	21-Aug-12	23	423.1	333.1						
2012	22-Aug-12	0	400	296.5						
2012	22-Aug-12	1	400.5	260.6						
2012	22-Aug-12	2	415.6	305.3						
2012	22-Aug-12	3	416.7	239.9						
2012	22-Aug-12	4	388.3	275.2						
2012	22-Aug-12	5	392.6	213.3						
2012	22-Aug-12	6	392.7	270.6	0.032					
2012	22-Aug-12	7	377.2	188.5	0.065					
2012	22-Aug-12	8	362.5	145.8	0.066					
2012	22-Aug-12	9	390.9	149.1	0.066					
2012	22-Aug-12	10	509.9	268.9	0.06					
2012	22-Aug-12	11	809.2	311.6						
2012	22-Aug-12	12	1175.5	536.4						
2012	22-Aug-12	13	1044.2	781.7						
2012	22-Aug-12	14	794.7	1208.1						
2012	22-Aug-12	15	745.1	1263.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	22-Aug-12	16	935.9	1516.8						
2012	22-Aug-12	17	975.6	1797.2						
2012	22-Aug-12	18	895.5	1574.3						
2012	22-Aug-12	19	862.3	1672.9						
2012	22-Aug-12	20	656.1	1290.2						
2012	22-Aug-12	21	398.1	1129.2						
2012	22-Aug-12	22	226	645.4						
2012	22-Aug-12	23	142.7	504.2						
2012	23-Aug-12	0	87.9	306						
2012	23-Aug-12	1	67.9	246.6						
2012	23-Aug-12	2	208.7	236.8	0.021					
2012	23-Aug-12	3	235.3	174.7	0.058					
2012	23-Aug-12	4	233.7	189.9	0.06					
2012	23-Aug-12	5	241.2	144.3	0.036					
2012	23-Aug-12	6	235.7	175.3	0.05					
2012	23-Aug-12	7	232.4	146.2	0.074					
2012	23-Aug-12	8	279.2	88.6	0.149					
2012	23-Aug-12	9	430.4	176	0.224					
2012	23-Aug-12	10	852.8	498.4	0.284					
2012	23-Aug-12	11	1326.6	684.5	0.511					
2012	23-Aug-12	12	787.7	1259.9	0.858					
2012	23-Aug-12	13	755.3	1389.1	0.896					
2012	23-Aug-12	14	771.7	924.9	0.887					
2012	23-Aug-12	15	784.1	522.1	0.86					
2012	23-Aug-12	16	804.5	503.3	0.802					
2012	23-Aug-12	17	792.4	475.7	0.787					
2012	23-Aug-12	18	797.1	437.1	0.753					
2012	23-Aug-12	19	817.1	435.1	0.877					
2012	23-Aug-12	20	592.3	346.4	0.489					
2012	23-Aug-12	21	314.4	226.7	0.05					
2012	23-Aug-12	22	202.5	119.9	0.037					
2012	23-Aug-12	23	137.1	117.2	0.041					
2012	24-Aug-12	0	85.4	82.2	0.067		0			
2012	24-Aug-12	1	71.9	68.4	0.058		0			
2012	24-Aug-12	2	169.5	61.2	0.053		9.216			
2012	24-Aug-12	3	261.8	47.5	0.053		230.1			
2012	24-Aug-12	4	267.6	44.1	0.053		294.5			
2012	24-Aug-12	5	293.9	37	0.053		295.5			
2012	24-Aug-12	6	303.2	38	0.06		316.8			
2012	24-Aug-12	7	313.4	56.5	0.067		325.6			
2012	24-Aug-12	8	308	20.1	0.07		480			
2012	24-Aug-12	9	362.6	21.6	0.212		929			
2012	24-Aug-12	10	463.5	21.6	0.244		798.7			
2012	24-Aug-12	11	584.7	31.5	0.426		569.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	24-Aug-12	12	843.7	57.4	0.481		964.2			
2012	24-Aug-12	13	914.6	91.7	0.759		1467.1			
2012	24-Aug-12	14	569.1	116	0.811		1686.5			
2012	24-Aug-12	15	614.5	180.4	0.84		1958.7			
2012	24-Aug-12	16	735.3	220	0.786		2009.4			
2012	24-Aug-12	17	731.3	300.4	0.783		2110.1			
2012	24-Aug-12	18	737.6	294.6	0.707		2317.9			
2012	24-Aug-12	19	744.1	361.5	0.555		2480.8			
2012	24-Aug-12	20	505.3	267.7	0.331		2390.3			
2012	24-Aug-12	21	299.3	190.8	0.034		2044			
2012	24-Aug-12	22	168.8	101.6			1747.4			
2012	24-Aug-12	23	124.4	115.1			1759.8			
2012	25-Aug-12	0	141.3	86.2			1739.6			
2012	25-Aug-12	1	233.6	59.3			1741.3			
2012	25-Aug-12	2	210.8	51.5			1737.6			
2012	25-Aug-12	3	215.4	44.4			1739.2			
2012	25-Aug-12	4	336.2	45.4			1737.2			
2012	25-Aug-12	5	310.7	37			1719.2			
2012	25-Aug-12	6	281.1	39.3			1733.8			
2012	25-Aug-12	7	359	75.1			1665.2			
2012	25-Aug-12	8	582.6	82.2			1737.8			
2012	25-Aug-12	9	719.8	129.3			1930.3			
2012	25-Aug-12	10	1074.1	242.6			2225			
2012	25-Aug-12	11	1538.6	268.5			2503.2			
2012	25-Aug-12	12	974.7	489.7			2695.7			
2012	25-Aug-12	13	843.2	653.1			2781.8			
2012	25-Aug-12	14	883.7	729			2569.7			
2012	25-Aug-12	15	641.1	941.1			2596.3			
2012	25-Aug-12	16	941.6	882.9			2599.2			
2012	25-Aug-12	17	1025.6	896.4			2531.3		0	
2012	25-Aug-12	18	437.5	285.2			2399		0	
2012	25-Aug-12	19	203.9	503.7			2127.3		0	
2012	25-Aug-12	20	336.7	613.2			2103.8		27.2	
2012	25-Aug-12	21	223	654.1	0.051		1774		53.6	
2012	25-Aug-12	22	148.1	486.4	0.086		1642.6		53.8	
2012	25-Aug-12	23	112.5	548.7	0.088		858.67		57.3	
2012	26-Aug-12	0	124.1	330.6	0.076				58.8	
2012	26-Aug-12	1	88.3	335.3	0.064				57.8	
2012	26-Aug-12	2	141.8	248.3	0.009				57.4	
2012	26-Aug-12	3	189.7	219.8					52.2	
2012	26-Aug-12	4	301.7	224.4					53.1	
2012	26-Aug-12	5	253.6	191.4					56.8	
2012	26-Aug-12	6	232	209.1					47.3	
2012	26-Aug-12	7	219.2	146.4					68.3	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-Aug-12	8	215.6	107.7					73.6	
2012	26-Aug-12	9	374.3	113.6					66.5	
2012	26-Aug-12	10	801	191.2					93.2	
2012	26-Aug-12	11	1075.6	183.1					123.2	
2012	26-Aug-12	12	1138.7	356.3					143.9	
2012	26-Aug-12	13	1263.4	498.1					155.4	
2012	26-Aug-12	14	1200.6	613.3					231.1	
2012	26-Aug-12	15	1098.3	716.4					378.3	
2012	26-Aug-12	16	1196	716.3					488.2	
2012	26-Aug-12	17	1119.7	880.8					529.2	
2012	26-Aug-12	18	794.4	546.2					553.1	
2012	26-Aug-12	19	976.8	766.2					607.7	
2012	26-Aug-12	20	951.9	581.9		0			517.8	
2012	26-Aug-12	21	785.6	539.5		0			516.9	
2012	26-Aug-12	22	357.9	318.4		0			521.7	
2012	26-Aug-12	23	165.2	326.1		0			514	
2012	27-Aug-12	0	225.7	282.1					504.8	
2012	27-Aug-12	1	204.7	213.3					500.5	
2012	27-Aug-12	2	165.5	224.9					495.6	
2012	27-Aug-12	3	166.8	185.7					492.6	
2012	27-Aug-12	4	272.7	217.2					490.7	
2012	27-Aug-12	5	215.1	186					512.4	
2012	27-Aug-12	6	200.3	209.7		0.402			538	
2012	27-Aug-12	7	217.9	63.3		2.8			511.7	
2012	27-Aug-12	8	340.9	27.1		3.1			662.7	
2012	27-Aug-12	9	316.3	145.4		3.2			778.7	
2012	27-Aug-12	10	374.5	443.5		246.9			746.4	
2012	27-Aug-12	11	524.2	1021.9		389.5			732.4	
2012	27-Aug-12	12	978.2	1234.3		693.6			725	
2012	27-Aug-12	13	539.7	1757.4		1480.2			767	
2012	27-Aug-12	14	265.2	862.5		1921.1			755.1	
2012	27-Aug-12	15	162.4	812.9		2035.7			778.8	
2012	27-Aug-12	16	275	661.9		2041.8			739.6	
2012	27-Aug-12	17	232.5	755.8		2031.9			714.2	
2012	27-Aug-12	18	192.2	608.8		1806.1			750.4	
2012	27-Aug-12	19	197.8	703.4		2033.6			733.3	
2012	27-Aug-12	20	290.5	566.3		1686.9			652.1	
2012	27-Aug-12	21	202.5	574		761.5			494.4	
2012	27-Aug-12	22	207.3	502.5		534.4			456	
2012	27-Aug-12	23	167.2	421		518.7			460.9	
2012	28-Aug-12	0	699.1	460.8		512.9			485.8	
2012	28-Aug-12	1	691.5	590.6		515.5			475.2	
2012	28-Aug-12	2	631	563		515.1			474.5	
2012	28-Aug-12	3	626	637.9		513.9			473.4	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	28-Aug-12	4	650.5	575.5		425.5			467	
2012	28-Aug-12	5	701.3	671		398.3			478.9	
2012	28-Aug-12	6	685.8	591.4		481.3			477.2	
2012	28-Aug-12	7	686.9	603.1		531.3			472.4	
2012	28-Aug-12	8	813.8	640.9		27.69			531.5	
2012	28-Aug-12	9	1265.2	1251.6		207			640	
2012	28-Aug-12	10	797.5	780.9		629.9			808.6	
2012	28-Aug-12	11	981	634.1		1277.2			796.2	
2012	28-Aug-12	12	1143.1	660		1753.8			967	
2012	28-Aug-12	13	1209.7	837.5		1798.9			1037.9	
2012	28-Aug-12	14	1119.4	777.6		1740.6			867.8	
2012	28-Aug-12	15	1099	833.3		2059			737	
2012	28-Aug-12	16	1076.5	730		1940.7			732.8	
2012	28-Aug-12	17	1057.9	759.5		1686.3			650	
2012	28-Aug-12	18	950.3	666.1		1414.3			607.2	
2012	28-Aug-12	19	962.2	742.1		1456.7			580.9	
2012	28-Aug-12	20	849.7	593.4		1250.2			566.1	
2012	28-Aug-12	21	555.1	426.1		817.5			588.4	
2012	28-Aug-12	22	322.5	277.4		557.9			593	
2012	28-Aug-12	23	358.9	436.6		512.3			559.6	
2012	29-Aug-12	0	466.4	423		513.6			548.6	
2012	29-Aug-12	1	394.2	348.8		511			215.67	
2012	29-Aug-12	2	379.3	365.4		510.3				
2012	29-Aug-12	3	373.8	275.3		512.6				
2012	29-Aug-12	4	385.7	267.3		441.8				
2012	29-Aug-12	5	368.5	241		497.7				
2012	29-Aug-12	6	375.4	255		460.1				
2012	29-Aug-12	7	372.3	208.8		490.6				
2012	29-Aug-12	8	351.5	179.6		507.8				
2012	29-Aug-12	9	428.5	254.8		522.9				
2012	29-Aug-12	10	624	416.3		542.7				
2012	29-Aug-12	11	1256.2	653.6		657.2				
2012	29-Aug-12	12	850.2	1030.1		1195.6				
2012	29-Aug-12	13	997.9	1563.5		1302.7				
2012	29-Aug-12	14	1030.7	732.8		2047				
2012	29-Aug-12	15	1048.8	612.3		2112.3				
2012	29-Aug-12	16	1072.2	601.8		2120.6				
2012	29-Aug-12	17	1065.7	654.7		2031.3			0	
2012	29-Aug-12	18	942.7	433.5		1482			25.3	
2012	29-Aug-12	19	826.7	526.1		1184.4			53.8	
2012	29-Aug-12	20	637	453.3		796	0		71.2	
2012	29-Aug-12	21	508.3	310.3		521.9	0		69.3	
2012	29-Aug-12	22	543	256.3		510.6	140.1		69.5	
2012	29-Aug-12	23	410.8	199.1		435.9	221.4		75.3	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	30-Aug-12	0	394.9	165.1		296.8	321.8		66.5	
2012	30-Aug-12	1	398.8	142.2		349.3	376.8		60.5	
2012	30-Aug-12	2	407.9	122		487.4	691.8		66.4	
2012	30-Aug-12	3	399.3	107.9		476	1209.1		57	
2012	30-Aug-12	4	389.4	111.7		493.2	1567.4		60.2	
2012	30-Aug-12	5	406.1	96.3		520.1	1800.7		170.7	
2012	30-Aug-12	6	390.3	89.8		506.1	1776.1		274.2	
2012	30-Aug-12	7	397.6	70.6		473.2	1798.4		360.3	
2012	30-Aug-12	8	420	67.7		475.1	1835.2		442.2	
2012	30-Aug-12	9	453.3	65.9		475.2	2081.4		521.6	
2012	30-Aug-12	10	610.9	38.8		478.5	2331.5		505.6	
2012	30-Aug-12	11	1072.3	118.8		713.2	2631.6		488.5	
2012	30-Aug-12	12	1722.3	275.6		951.3	2613.8		481.7	
2012	30-Aug-12	13	1513.5	445.3		1016.8	2575.7		479.6	
2012	30-Aug-12	14	1034.4	513		1597.9	2586.4		478	
2012	30-Aug-12	15	1096.2	565.4		2058.9	2572.5		476.6	
2012	30-Aug-12	16	1189	591.2		2061.5	2557		509.2	
2012	30-Aug-12	17	1102.9	623.4		1939.8	2498.6		497.8	
2012	30-Aug-12	18	985.6	602.3		1411.5	2416.3		555.7	
2012	30-Aug-12	19	1093.5	699.3		1750	2512		518.2	
2012	30-Aug-12	20	1001.2	628.5		1268.2	2413.9		516.7	
2012	30-Aug-12	21	680.6	412.2		878.9	2005.7		519.6	
2012	30-Aug-12	22	393.5	288.8		521.6	1688.7		522.7	
2012	30-Aug-12	23	391	223.3		484.1	1712.3		536.6	
2012	31-Aug-12	0	570.6	405.4		487.8	1686.8		511.2	
2012	31-Aug-12	1	445.7	388.1		481.5	1672.9		501.3	
2012	31-Aug-12	2	425.6	371.2		466.9	1700		498.7	
2012	31-Aug-12	3	425.2	341.9		463.7	1679.3		510.3	
2012	31-Aug-12	4	447	365.7		459	1674.3		509.8	
2012	31-Aug-12	5	478.3	350.6		458.3	1783.4		539.6	
2012	31-Aug-12	6	481.5	356.2		456.4	1908.8		500.7	
2012	31-Aug-12	7	492.3	311.6		449.6	2313.5		497.5	
2012	31-Aug-12	8	546.3	336.8		447.2	2345.6		517.6	
2012	31-Aug-12	9	613.4	607.2		444.3	2366.4		530.4	
2012	31-Aug-12	10	935.4	891.6		954.5	2396.6		562.5	
2012	31-Aug-12	11	908.7	787.2		1395.1	2455.4		601.2	
2012	31-Aug-12	12	911.3	491.2		1655.4	2471.9		595.3	
2012	31-Aug-12	13	1205.3	630.8		1721.3	2563.5		528.2	
2012	31-Aug-12	14	1286.6	715		1788.8	2591.6		505.4	
2012	31-Aug-12	15	1263.4	837.2		1700.4	2561.1		530.4	
2012	31-Aug-12	16	1319.3	902.4		1646.7	2561		526.1	
2012	31-Aug-12	17	1362.2	986.8		1430.7	2573.4		525	
2012	31-Aug-12	18	1420.2	882.9		1317.7	2549.8		517.6	
2012	31-Aug-12	19	1364.5	927.7		1444.2	2468.6		507	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	31-Aug-12	20	1406.4	868		1344.8	2458.5		505.3	
2012	31-Aug-12	21	1131.5	775.9		642.3	2309.7		508	
2012	31-Aug-12	22	819.7	679.7		490.2	2235		495.1	
2012	31-Aug-12	23	300.5	424.5		494.3	1868.5		490.8	
2012	1-Sep-12	0	198.7	329.7		489.3	1885.8		487.6	
2012	1-Sep-12	1	148.8	222.2		491.1	1687.7		501.8	
2012	1-Sep-12	2	139.3	203.6		491.7	1666		503.1	
2012	1-Sep-12	3	137.9	157.9		486	1621.7		499.7	
2012	1-Sep-12	4	135.4	157.5		481.8	1614.3		521.4	
2012	1-Sep-12	5	129.5	130.8		480	1602.7		543.1	
2012	1-Sep-12	6	414.6	320.9		478.1	1597.3		550.9	
2012	1-Sep-12	7	414.3	321.7		480.4	1656.8		517.6	
2012	1-Sep-12	8	673.7	614.1		482.6	1961.7		482	
2012	1-Sep-12	9	1100.5	1026.7		483.8	2263.9		532.2	
2012	1-Sep-12	10	394.7	263		506.4	2469.9		516.6	
2012	1-Sep-12	11	629.9	553.8		678.9	2665.5		530.6	
2012	1-Sep-12	12	1146.6	905.5		1468.6	2787.4		524.3	
2012	1-Sep-12	13	816.5	526.7		2049.6	2789		482.4	
2012	1-Sep-12	14	805.9	337.5		2122.9	2794.7		490.1	
2012	1-Sep-12	15	914.8	567.6		2130.4	2761		485	
2012	1-Sep-12	16	1008.2	605.5		1898	2786.1		482.1	
2012	1-Sep-12	17	955.8	555.9		1358.1	2499.9		476.2	5.1
2012	1-Sep-12	18	398.7	142.4		669.4	2390.4		484	2.2
2012	1-Sep-12	19	152.8	93.3		501.6	2457.5		499.2	2.5
2012	1-Sep-12	20	236.5	76.5		496.3	2274		475	2.3
2012	1-Sep-12	21	362.5	141.4		487.5	2036.7		474.5	4.9
2012	1-Sep-12	22	243.2	120.6		488.8	2011.8		472.5	19
2012	1-Sep-12	23	161.7	105.2		495.6	1735.8		472	26.9
2012	2-Sep-12	0	132	87.7		498.1	1679.5		472.8	19.7
2012	2-Sep-12	1	130.3	89.2	0.003	483.6	1679		471.7	19.7
2012	2-Sep-12	2	116.8	99.7	0.062	494.1	1671.7		468.6	24.1
2012	2-Sep-12	3	115.4	93.6	0.065	502.6	1679.9		469	19.7
2012	2-Sep-12	4	119.5	94.5	0.065	502.8	1673		472.6	20.8
2012	2-Sep-12	5	120.1	81.5	0.005	503.3	1664.1		536.7	61.2
2012	2-Sep-12	6	135.7	92.2		507	1661.5		498.3	190.7
2012	2-Sep-12	7	369.5	220.5		503.2	1673.8		528.6	254.1
2012	2-Sep-12	8	442	278.1		509.2	1790.3		520	348.7
2012	2-Sep-12	9	401.8	288.6		509.1	1869		505.2	461.4
2012	2-Sep-12	10	599.1	459		552.8	2212.8		501.8	496.9
2012	2-Sep-12	11	1040.7	706		533.3	2535.8		512	567.7
2012	2-Sep-12	12	1546.7	931.5		667.3	2601.8		619.1	733.1
2012	2-Sep-12	13	788.5	844.1		1329.9	2518.9		616.5	778.5
2012	2-Sep-12	14	838.1	291		1703.4	2428.6		600.3	731.9
2012	2-Sep-12	15	817.3	328		1933.8	2325.8		599.2	779.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	2-Sep-12	16	1231.7	487.2		1903.6	2487.6		586.2	800.1
2012	2-Sep-12	17	1413.6	627.7		1603.1	2514		568.6	722.3
2012	2-Sep-12	18	1361.8	680.7		845.3	2361.7		633.9	796.4
2012	2-Sep-12	19	1572.7	801.6		578.1	2495.4		646.3	763.6
2012	2-Sep-12	20	1191.6	437.6		517.3	2324.5		567	725.7
2012	2-Sep-12	21	767.5	360.1		507	1958.6		526.6	621.3
2012	2-Sep-12	22	392	314.2		497.1	1745.6		480.7	469.9
2012	2-Sep-12	23	226.2	270.3		495.7	1671.4		479.1	437.7
2012	3-Sep-12	0	155.5	212.8		494.5	1655.3		510.6	479.6
2012	3-Sep-12	1	139.4	163.1		493.8	1656		513.2	492.4
2012	3-Sep-12	2	118.8	147.6		494.1	1655		551.9	472.3
2012	3-Sep-12	3	114.8	135.6		494.7	1664.3		527.8	463.6
2012	3-Sep-12	4	113.5	129.8		492	1664.9		512.1	471.3
2012	3-Sep-12	5	116.2	302.4		493.3	1673.8		509.8	494.3
2012	3-Sep-12	6	112.7	387		494	1670.9		556.1	640.3
2012	3-Sep-12	7	119.4	327.6		493.6	1672.1		608.2	724.4
2012	3-Sep-12	8	125.5	337.9		533.9	1811.4		570.9	763.4
2012	3-Sep-12	9	146.2	546.9		675.7	2220		709.2	973
2012	3-Sep-12	10	295.6	800.8		1080.7	2528.8		644.8	893.7
2012	3-Sep-12	11	527.3	1013.2		1652.9	2749.4		660.6	969.6
2012	3-Sep-12	12	859.8	1086.3		1770.8	2807		1033.5	1311.8
2012	3-Sep-12	13	1045.6	654.9		1790.1	2813		1028.5	1137.5
2012	3-Sep-12	14	1189.9	740.4		1980.1	2798.5		772.7	973.7
2012	3-Sep-12	15	1198.4	841.8		2057.8	2861.2		769.4	969.2
2012	3-Sep-12	16	1242	925.3		2072.7	2907.1		775.4	1001.4
2012	3-Sep-12	17	1213.1	919.7		2090	2935		600.5	745.1
2012	3-Sep-12	18	1158.5	950.5		2098.4	2983.1		631.3	746
2012	3-Sep-12	19	1031.8	910		2103.1	3044.5		659.2	600.4
2012	3-Sep-12	20	1058.8	752.4	0.016	2074	2968.7		558.2	477.3
2012	3-Sep-12	21	611.3	447.1	0.065	1346.3	2722.4		486.4	472.8
2012	3-Sep-12	22	445.8	282.8	0.065	736.2	2348.7		434.8	480.1
2012	3-Sep-12	23	237.4	195.2	0.065	520.8	1989.9		458.7	511.4
2012	4-Sep-12	0	172.2	206.4	0.067	511.7	1823.7		493	559.5
2012	4-Sep-12	1	135	138.3	0.064	506.1	1770.6		463.3	525.5
2012	4-Sep-12	2	125.5	143.2	0.065	506.7	1784.1		463.9	524.6
2012	4-Sep-12	3	121.1	130.9	0.064	503.6	1760.6		478.4	526.9
2012	4-Sep-12	4	125.5	120.8	0.055	505.6	1965.2		525.6	511.6
2012	4-Sep-12	5	210.8	143.7	0.071	779.3	2385.4		548.3	566.1
2012	4-Sep-12	6	357	231.4	0.085	1019.7	2648.9		583.3	732.3
2012	4-Sep-12	7	582.4	158.8	0.217	1452.3	2802.9		552.8	702.9
2012	4-Sep-12	8	763.6	94	0.348	1901.9	2940.2		511.9	716.8
2012	4-Sep-12	9	698.6	57.5	0.496	1804.9	2902		561.6	753.7
2012	4-Sep-12	10	843	99.9	0.658	2028.1	2907		642	760.7
2012	4-Sep-12	11	763.7	150.5	0.782	1730.6	2935.9		674	788.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-Sep-12	12	806	228.1	0.808	1837.6	2925.5		669.5	791.8
2012	4-Sep-12	13	876.8	454.5	0.798	1791.5	2921.2		681.7	736.3
2012	4-Sep-12	14	1165.2	707.7	0.834	1855.3	2928.2		675.3	743.2
2012	4-Sep-12	15	1379.4	851.2	0.82	1860	2911.1		699.6	786.5
2012	4-Sep-12	16	1374.4	944	0.827	2100.5	2901.2		712.8	774.4
2012	4-Sep-12	17	1330	824.2	0.838	2099.5	2908.6		635.6	694.1
2012	4-Sep-12	18	1147.6	770.6	0.756	2134.1	2885		584.4	755.8
2012	4-Sep-12	19	1221.2	879.2	0.857	2017	2877.7		620.5	734.2
2012	4-Sep-12	20	1287.6	852.2	0.646	1816.1	2855		560.2	663.7
2012	4-Sep-12	21	1346.6	842.2	0.053	2101.6	2851		508.6	605.2
2012	4-Sep-12	22	1030.7	777.7		1862.8	2842.8		500	717
2012	4-Sep-12	23	640	475.7		882.8	2841.7		460.9	659.7
2012	5-Sep-12	0	516	400.8		562.2	2503.2		453.7	570.4
2012	5-Sep-12	1	379.3	262.9		577.2	1800.9		468.5	456.2
2012	5-Sep-12	2	268	232.4		569.4	1738		375.9	238.3
2012	5-Sep-12	3	254.7	225.9	0.023	564.3	1821.6		254.2	247.9
2012	5-Sep-12	4	396.8	304.4	0.067	581.5	2149.9		147.314	251
2012	5-Sep-12	5	647.2	438.5	0.067	916.7	2573.7			45.44
2012	5-Sep-12	6	981.8	599.8	0.069	1221.7	2794.8			
2012	5-Sep-12	7	1100.9	710.5	0.237	1158.2	2776.7			
2012	5-Sep-12	8	1411.5	834.4	0.349	1407.4	2807.7			
2012	5-Sep-12	9	1415.1	744.1	0.275	1898.4	2799.4			
2012	5-Sep-12	10	1409.8	831.1		2026.3	2823.4			
2012	5-Sep-12	11	1394.5	893.9	0.012	2023.8	2850.4			
2012	5-Sep-12	12	1512.7	897.4	0.076	1982.6	2857.2			
2012	5-Sep-12	13	1500.9	972.4	0.208	2223.6	2826.9			
2012	5-Sep-12	14	1384	1047.3	0.251	2192.9	2824.5			
2012	5-Sep-12	15	1408.7	1038.7	0.361	2214.2	2807.3			
2012	5-Sep-12	16	1525.4	999.7	0.43	2218.7	2772.6			
2012	5-Sep-12	17	1545.9	1009.1	0.431	2167.4	2759.1			
2012	5-Sep-12	18	1492	897.4	0.431	2215.3	2773.1			
2012	5-Sep-12	19	1160.9	770.8	0.432	2175.2	2790.7			
2012	5-Sep-12	20	1010.5	727	0.43	1959.9	2795.8			
2012	5-Sep-12	21	723.7	543.9	0.293	876.1	2768.2			
2012	5-Sep-12	22	694.7	416.5		550.4	2757.6			
2012	5-Sep-12	23	826.7	497.1		456.6	2763.6			
2012	6-Sep-12	0	671.4	438.7		519.9	2583.5			
2012	6-Sep-12	1	480.5	341.7		549.6	1875.8			
2012	6-Sep-12	2	295.3	285.2		548.9	1769.5			
2012	6-Sep-12	3	233.2	243	0.033	548.8	1761.9			
2012	6-Sep-12	4	271.5	261.4	0.055	551.4	1846.8			
2012	6-Sep-12	5	270.1	224.7	0.052	547.6	2158.5			
2012	6-Sep-12	6	292.8	222.9	0.08	548.3	2233.8			
2012	6-Sep-12	7	330	225.3	0.223	549.2	2144.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	6-Sep-12	8	520.4	191.4	0.281	602.2	2415.7			
2012	6-Sep-12	9	597.9	328.5	0.289	601.6	2434.4			
2012	6-Sep-12	10	842.3	405.6	0.34	579.2	2441.9			
2012	6-Sep-12	11	952	419.7	0.5	544.9	2355.5			
2012	6-Sep-12	12	1399.4	593.6	0.522	787.3	2609.3			
2012	6-Sep-12	13	1513.7	745	0.593	1220.8	2806.3			
2012	6-Sep-12	14	1402.3	883.1	0.692	1446.4	2904.1			
2012	6-Sep-12	15	1111	815.4	0.787	1700.1	2903.6			
2012	6-Sep-12	16	1145.5	845.7	0.768	2158.9	2870.5			
2012	6-Sep-12	17	1458.9	824	0.81	2131.2	2836.8			
2012	6-Sep-12	18	1299.9	797.9	0.588	1573.2	2735.4			
2012	6-Sep-12	19	1617.4	826.3		1676.1	2840.4			
2012	6-Sep-12	20	1707.9	767.4		1730.7	2809.4			
2012	6-Sep-12	21	845.9	427.7		999.4	2572.3			
2012	6-Sep-12	22	452.3	313.3		570.6	2173.3			
2012	6-Sep-12	23	244.6	253.4		555.1	1854.7			
2012	7-Sep-12	0	174.9	193.7		519.1	1772.7			
2012	7-Sep-12	1	269	280.6		515.4	1745.8			
2012	7-Sep-12	2	405.9	393.2		514	1726.5			
2012	7-Sep-12	3	467.8	427.8		513.2	1739.9			
2012	7-Sep-12	4	525.6	462.4	0.052	499.1	1737.5			
2012	7-Sep-12	5	568.9	576.8	0.052	497.2	1865.4			
2012	7-Sep-12	6	586.4	493.3	0.052	498.2	1853.9			
2012	7-Sep-12	7	580.8	504.2	0.061	500.1	1978.7			
2012	7-Sep-12	8	657	531.8	0.251	507.4	2129.9			
2012	7-Sep-12	9	826.8	964.1	0.307	529.2	2514			
2012	7-Sep-12	10	1104.7	2036.3	0.573	744.4	2762.6			
2012	7-Sep-12	11	873.1	1061.7	0.711	752.6	2855.4			
2012	7-Sep-12	12	1449.4	935.3	0.773	1592.4	2896.3			
2012	7-Sep-12	13	1836.1	1122.1	0.83	2185.2	2896.5			
2012	7-Sep-12	14	1719	1044.3	0.866	2151.9	2894.9			
2012	7-Sep-12	15	1572.6	943.1	0.832	2155.1	2914.8			
2012	7-Sep-12	16	1775.5	876.3	0.875	2163.6	2891.5			
2012	7-Sep-12	17	1258.5	858.9	0.826	2144.6	2843.1			
2012	7-Sep-12	18	735.5	596.8	0.616	1716.5	2637.2			
2012	7-Sep-12	19	840.4	596.6	0.804	1983.7	2823.9			
2012	7-Sep-12	20	762.9	549.8	0.577	1617	2741.1			
2012	7-Sep-12	21	987.6	537.3	0.124	1666	2624.2			
2012	7-Sep-12	22	593.5	391.4		1268.8	2277.9			
2012	7-Sep-12	23	490.4	328		650.3	1873.7			
2012	8-Sep-12	0	366.5	299.4		588.2	1755.8			
2012	8-Sep-12	1	322.6	258.7		572.3	1746.1			
2012	8-Sep-12	2	187.5	248.4		569.6	1741.7			
2012	8-Sep-12	3	278.5	420.1		572.3	1741.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-Sep-12	4	461.2	363		521.2	1746.1			
2012	8-Sep-12	5	405.9	419.6		516.6	1768.5			
2012	8-Sep-12	6	349.1	282		517.8	1735			
2012	8-Sep-12	7	360	128.7		515.5	1833.5			
2012	8-Sep-12	8	417.1	82.6		556	1977.1			
2012	8-Sep-12	9	553.3	89.2		827.9	2295.9			
2012	8-Sep-12	10	1018.3	169.8		1314.8	2475.6			
2012	8-Sep-12	11	1698.8	441.8		2063.3	2868.2			
2012	8-Sep-12	12	1358.6	1229.5		2150	2871.8			
2012	8-Sep-12	13	1514.6	1230.4		2120.9	2763.3			
2012	8-Sep-12	14	1545	1199.6		1904.2	2615.5			
2012	8-Sep-12	15	824.7	464.3		1151.3	2481.8			
2012	8-Sep-12	16	618.6	270.7		701.4	2279.5			
2012	8-Sep-12	17	414.9	197		601.9	1837.6			
2012	8-Sep-12	18	246.9	143		568.7	1703.1			
2012	8-Sep-12	19	147	83.1		545.3	1718.5			
2012	8-Sep-12	20	84.6	65		529.3	1710			
2012	8-Sep-12	21	63.7	44.7		524.5	1718.1			
2012	8-Sep-12	22	51.2	72.1		525.9	1695.6			
2012	8-Sep-12	23	169.6	194.4		526.3	1693.9			
2012	9-Sep-12	0	459.3	517.8		526	1697.8			
2012	9-Sep-12	1	470.3	603.9		528.2	1685.6			
2012	9-Sep-12	2	444.8	663.8		525.2	1684.1			
2012	9-Sep-12	3	537	594.9		528.5	1684.4			
2012	9-Sep-12	4	617.4	225.6		497.5	1681			
2012	9-Sep-12	5	626.9	208.5		494.7	1684.7			
2012	9-Sep-12	6	203.8	197.4		493.1	1686.6			
2012	9-Sep-12	7	192.9	190.7		495.5	1645.2			
2012	9-Sep-12	8	207.8	191		496.1	1670.5			
2012	9-Sep-12	9	208.2	190.5		497.3	1683.9			
2012	9-Sep-12	10	216.3	177.8		498.4	1687.6			
2012	9-Sep-12	11	194.8	119.9		504.2	1680.2			
2012	9-Sep-12	12	115.3	112		507.7	1679.4			
2012	9-Sep-12	13	115.9	177.8		504.6	1711.3			
2012	9-Sep-12	14	207	122.7		503.7	1702			
2012	9-Sep-12	15	248.3	193.4		506.3	1705.1			
2012	9-Sep-12	16	248.1	285.1		508.6	1819.9			
2012	9-Sep-12	17	180.6	94.9		511	1700			
2012	9-Sep-12	18	117.3	57.7		522.2	1693.2			
2012	9-Sep-12	19	156.7	132		659.1	1905.6			
2012	9-Sep-12	20	210.1	183.7		567.5	1704			
2012	9-Sep-12	21	187.8	134.1		545.7	1679.6			
2012	9-Sep-12	22	231.6	190.1		510.6	1695.6			
2012	9-Sep-12	23	218.2	205.5		509.1	1683.4			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-Sep-12	0	157.1	209.4		497.2	1682			
2012	10-Sep-12	1	126.8	84.8		500.6	1675.3			
2012	10-Sep-12	2	120.2	87.9		503.4	1670.6			
2012	10-Sep-12	3	112.9	70.2		498.7	1678.1			
2012	10-Sep-12	4	102	64		503	1683.4			
2012	10-Sep-12	5	104	83.4		508	1698.6			
2012	10-Sep-12	6	98.8	90.1		492.2	1670.1			
2012	10-Sep-12	7	252.5	100.3		484.4	1632.4			
2012	10-Sep-12	8	468.6	83.9		489.6	1679.4			
2012	10-Sep-12	9	494.1	116		486.7	1672.5			
2012	10-Sep-12	10	530.6	158.6		486.3	1654.5			
2012	10-Sep-12	11	459.1	102.9		488.7	1654.6			
2012	10-Sep-12	12	479.5	190.2		492.8	1670.7			
2012	10-Sep-12	13	381.9	128.5		492.8	1679.1			
2012	10-Sep-12	14	354.4	152.7		494.8	1670.8			
2012	10-Sep-12	15	431.4	113.9		497.4	1673.4			
2012	10-Sep-12	16	430.4	173.8		495.9	1671.4			
2012	10-Sep-12	17	478.5	155.3		495.4	1681			
2012	10-Sep-12	18	546.4	223.7		498.1	1694.6			
2012	10-Sep-12	19	562.7	193.2		498.5	1699.7			
2012	10-Sep-12	20	475.2	206.1		495.5	1677.4			
2012	10-Sep-12	21	409.9	148.8		494.1	1677.8			
2012	10-Sep-12	22	369.4	144.8		495.8	1674.2			
2012	10-Sep-12	23	413.8	333.3		498.1	1666.7			
2012	11-Sep-12	0	481	581.1		497.4	1678.8			
2012	11-Sep-12	1	369.8	428.2		499.6	1662.8			
2012	11-Sep-12	2	369.1	501.6		499.8	1658			
2012	11-Sep-12	3	312.3	417.8		502.3	1649.5			
2012	11-Sep-12	4	316.2	393.7		486.5	1903.3			
2012	11-Sep-12	5	353.8	363.7		495.7	2417.7			
2012	11-Sep-12	6	352.8	395.1		490.2	2648.6			
2012	11-Sep-12	7	397.1	319.9		490.3	2611.4			
2012	11-Sep-12	8	427.7	369.6		490.7	2619.3			
2012	11-Sep-12	9	374.8	495.7		490.6	2512.5			
2012	11-Sep-12	10	443.4	581.6		490.5	2695.9			
2012	11-Sep-12	11	503.4	615.5		493.9	2698			
2012	11-Sep-12	12	568.3	821.6		494	2712.5			
2012	11-Sep-12	13	684.7	593.6		490.2	2688.9			
2012	11-Sep-12	14	696.1	342.8		492.3	2391.9			
2012	11-Sep-12	15	648.8	275.1		493.8	2429.9			
2012	11-Sep-12	16	799.3	359.4		490.4	2368.7			
2012	11-Sep-12	17	793.8	346.6		480.8	2360			
2012	11-Sep-12	18	562.7	239.2		479.4	2388.4			
2012	11-Sep-12	19	553.4	258.1		477.8	2450.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	11-Sep-12	20	467.3	172.3		480.4	2063.5			
2012	11-Sep-12	21	400.8	141.7		472.3	1734.2			
2012	11-Sep-12	22	468.5	128.3		463.4	1627			
2012	11-Sep-12	23	514.3	186.6		468.3	1621.5			
2012	12-Sep-12	0	555.7	185.1		469.1	1611.4			
2012	12-Sep-12	1	548.8	138.2		469.2	1621			
2012	12-Sep-12	2	440.3	103.5		471.2	1623.3			
2012	12-Sep-12	3	314.6	94.6		466.3	1623.9			
2012	12-Sep-12	4	341.7	73.4		465.9	1700.6			
2012	12-Sep-12	5	437.1	90.8		468.5	1578.4			
2012	12-Sep-12	6	380.6	111.1		465.2	1582.5			
2012	12-Sep-12	7	408.8	107.3		465.9	1553.7			
2012	12-Sep-12	8	474.8	77.1		469.7	1211.8			
2012	12-Sep-12	9	421.1	114.9		471.1	1245.1			
2012	12-Sep-12	10	607.7	186.7		481.7	1540.5			
2012	12-Sep-12	11	965.5	187.4		495.6	1700.8			
2012	12-Sep-12	12	1250.5	316.1		476.4	2097.6			
2012	12-Sep-12	13	1299.9	386.2		514.8	2347.2			
2012	12-Sep-12	14	1023.5	456.4		786.7	2597.1			
2012	12-Sep-12	15	1220.2	521.4		1414.7	2732.6			
2012	12-Sep-12	16	1225.6	536.6		1568.5	2694.9			
2012	12-Sep-12	17	1172.5	554.8		1267	2675.7			
2012	12-Sep-12	18	1023.8	419.7		729.1	2541			
2012	12-Sep-12	19	1042.4	499.7		800.1	2687.9			
2012	12-Sep-12	20	815.6	367.6		535.7	2414.6			
2012	12-Sep-12	21	663	317.3		480.6	2043.1			
2012	12-Sep-12	22	367.4	238.9		477.3	1717.9			
2012	12-Sep-12	23	371.6	205.2		479.3	1673.5			
2012	13-Sep-12	0	263.1	176.6		478	1633.6			
2012	13-Sep-12	1	139.4	157.3		478.5	1626.7			
2012	13-Sep-12	2	130	127.1		477.4	1644.7			
2012	13-Sep-12	3	115.4	111.6		474.1	1645.5			
2012	13-Sep-12	4	117.5	93.8		473.2	1801.4			
2012	13-Sep-12	5	130.3	96.7		471.9	2237.1			
2012	13-Sep-12	6	113	80.6		468.6	2574.7			
2012	13-Sep-12	7	120.1	90.9		470.9	2741.4			
2012	13-Sep-12	8	151.3	91.7		472.9	2613.5			
2012	13-Sep-12	9	151	113.9		474.7	2671.8			
2012	13-Sep-12	10	157.9	88.055		475.1	2728.8			
2012	13-Sep-12	11	221.2	6.853		476.1	2507.1			
2012	13-Sep-12	12	420.7	4.4		482.8	2413.2			
2012	13-Sep-12	13	542.6	9.4		477.1	2480.5			
2012	13-Sep-12	14	717.2	7.1		495.1	2675			
2012	13-Sep-12	15	783.1	15.8		553.5	2426.2			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	13-Sep-12	16	718.5	39.6		488.7	2500.7			
2012	13-Sep-12	17	693.8	122		488.9	2528.1			
2012	13-Sep-12	18	618.4	294.6		520.2	2430.4			
2012	13-Sep-12	19	562.6	578.6		553.3	2407.2			
2012	13-Sep-12	20	548	540.5		490	2275.2			
2012	13-Sep-12	21	422.9	459.9		488.7	1859.9			
2012	13-Sep-12	22	303.7	447.8		490.3	1674.9			
2012	13-Sep-12	23	193.9	431.9		485.3	1671.4			
2012	14-Sep-12	0	196.1	361.8		483.3	1667			
2012	14-Sep-12	1	193.9	297.4		480.3	1681.1			
2012	14-Sep-12	2	185.6	380.4		483.6	1666.3			
2012	14-Sep-12	3	203.6	328.5		486.7	1674.4			
2012	14-Sep-12	4	252	372.2		485.9	1681.7			
2012	14-Sep-12	5	251.6	332.9		481.1	1791.6			
2012	14-Sep-12	6	277.4	402.9		477.3	1829.9			
2012	14-Sep-12	7	211	329		477.5	1991.3			
2012	14-Sep-12	8	195.1	485.8		571.6	2206.9			
2012	14-Sep-12	9	233.9	677.2		644	2375.8			
2012	14-Sep-12	10	239.7	880.9		506.3	2354.9			
2012	14-Sep-12	11	457.8	1016.6		850.8	2530.3			
2012	14-Sep-12	12	838.4	842.3		1026.6	2598.8			
2012	14-Sep-12	13	1174.5	983.6		1517.1	2643.3			
2012	14-Sep-12	14	1009.1	776.3		1588.6	2588.6			
2012	14-Sep-12	15	1004.6	513.5		1433	2510.7			
2012	14-Sep-12	16	929.9	521.7		1108.9	2527.7			
2012	14-Sep-12	17	730.2	494.3		991.1	2338.5			
2012	14-Sep-12	18	580.6	297.7		1093.3	2276.2			
2012	14-Sep-12	19	699.7	208.7		1298.4	2419.4			
2012	14-Sep-12	20	490.8	203.1		960.4	2104.4			
2012	14-Sep-12	21	347.4	129		530.7	1788.1			
2012	14-Sep-12	22	215.3	84.4		445.4	1717.5			
2012	14-Sep-12	23	177.8	29.4		443.2	1703.1			
2012	15-Sep-12	0	172.5	21		439.2	1691.7			
2012	15-Sep-12	1	160.6	18.9		436	1694.7			
2012	15-Sep-12	2	155	2.703		436.6	1685.2			
2012	15-Sep-12	3	144.7			436.7	1704.7			
2012	15-Sep-12	4	214.8			490.1	1697.3			
2012	15-Sep-12	5	563.9			502.1	1709			
2012	15-Sep-12	6	558			502.2	1703.6			
2012	15-Sep-12	7	552.5			505.6	1658.6			
2012	15-Sep-12	8	616.8			506.1	1725.9			
2012	15-Sep-12	9	568.4			503.1	1879.8			
2012	15-Sep-12	10	530.6			502	1735.8			
2012	15-Sep-12	11	501.8			503.3	1823.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-Sep-12	12	614.4			510.2	1896.8			
2012	15-Sep-12	13	789.9			508	1827.6			
2012	15-Sep-12	14	902.7			513	2010.8			
2012	15-Sep-12	15	827.1			516.1	1906			
2012	15-Sep-12	16	243.2			517.9	1751.9			
2012	15-Sep-12	17	256.7			517.9	1745.2			
2012	15-Sep-12	18	316.2			518.6	1827.9			
2012	15-Sep-12	19	424.1			507.4	1987.4			
2012	15-Sep-12	20	499.7			465.1	1731			
2012	15-Sep-12	21	480.1			463.4	1735.5			
2012	15-Sep-12	22	391.6			460.2	1730.1			
2012	15-Sep-12	23	238.5			459.2	1721.8			
2012	16-Sep-12	0	140.4			458.8	1705.3			
2012	16-Sep-12	1	103.7			456	1717.9			
2012	16-Sep-12	2	83.6			455.7	1708.5			
2012	16-Sep-12	3	78.7			455.9	1709.6			
2012	16-Sep-12	4	79.9			455.2	1704.8			
2012	16-Sep-12	5	88.4			451	1696.6			
2012	16-Sep-12	6	109.2			450.8	1713.4			
2012	16-Sep-12	7	99.3			458.7	1682.9			
2012	16-Sep-12	8	93.9			451.9	1691.2			
2012	16-Sep-12	9	71.4			449.1	1694.5			
2012	16-Sep-12	10	65.7			450.7	1776.5			
2012	16-Sep-12	11	74.2			451	1689.3			
2012	16-Sep-12	12	61.4			450.6	1704.6			
2012	16-Sep-12	13	81.1			453	1699.9			
2012	16-Sep-12	14	96.7			449.6	1690.3			
2012	16-Sep-12	15	111.6			453.7	1707.3			
2012	16-Sep-12	16	126.3			455.5	1851			
2012	16-Sep-12	17	142.5			456	1883			
2012	16-Sep-12	18	144.8			514.7	1995.9			
2012	16-Sep-12	19	168			1033.2	2319.3			
2012	16-Sep-12	20	131.3			1081.4	2230.5			
2012	16-Sep-12	21	115.7			743.5	1806.7			
2012	16-Sep-12	22	104.5			458.7	1696.8			
2012	16-Sep-12	23	100.3			452.3	1690.3			
2012	17-Sep-12	0	97.6			450.6	1689.7			
2012	17-Sep-12	1	88.1			449.8	1696.8			
2012	17-Sep-12	2	98.8			449.5	1695.6			
2012	17-Sep-12	3	109.2			448.7	1693.8			
2012	17-Sep-12	4	105.8			455.2	1698.9			
2012	17-Sep-12	5	97.1			510.4	1927.1			
2012	17-Sep-12	6	82			478.4	1923.7			
2012	17-Sep-12	7	77.3			476.5	1827.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	17-Sep-12	8	84.5			476.4	1975.2			
2012	17-Sep-12	9	92.6			573.9	2255.8			
2012	17-Sep-12	10	142.4			541.9	2402.4			
2012	17-Sep-12	11	308			648.7	2574			
2012	17-Sep-12	12	433.4			544.2	2642.3			
2012	17-Sep-12	13	772.1			487.9	2525.8			
2012	17-Sep-12	14	517.9			487.5	2477.7			
2012	17-Sep-12	15	415.8			482.6	2465.5			
2012	17-Sep-12	16	551			469.7	2375.7			
2012	17-Sep-12	17	640.5			488.7	2388.4			
2012	17-Sep-12	18	1063.5			703	2748.3			
2012	17-Sep-12	19	1007.2			955.5	2900.1			
2012	17-Sep-12	20	941.9			775.6	2654			
2012	17-Sep-12	21	628.3			474	2325.9			
2012	17-Sep-12	22	443.7			457.8	1978.7			
2012	17-Sep-12	23	255.3			458.6	1757.3			
2012	18-Sep-12	0	168			456.4	1761.3			
2012	18-Sep-12	1	135.3			454.4	1751.2			
2012	18-Sep-12	2	107.4			453.3	1766.5			
2012	18-Sep-12	3	98.5			452.1	1767.9			
2012	18-Sep-12	4	95.3			453.6	1776.8			
2012	18-Sep-12	5	121.6			460.9	1905			
2012	18-Sep-12	6	238.2			603.3	2243			
2012	18-Sep-12	7	538.5			729.3	2546			
2012	18-Sep-12	8	715.1			1216.2	2688			
2012	18-Sep-12	9	606.8			1802.7	2836.4			
2012	18-Sep-12	10	638.7			2075.7	2826.6			
2012	18-Sep-12	11	785.6			1990.1	2838.3			
2012	18-Sep-12	12	1057			2042.1	2806.8			
2012	18-Sep-12	13	1213.9			1866.3	2727.2			
2012	18-Sep-12	14	1336.8			1855.3	2733			
2012	18-Sep-12	15	1326.5			2000.6	2772.2			
2012	18-Sep-12	16	1528			1331.7	2647.7			
2012	18-Sep-12	17	1500.9			1265	2675.3			
2012	18-Sep-12	18	1540.8			1844.4	2745.9			
2012	18-Sep-12	19	1176.6			1692.6	2736.3			
2012	18-Sep-12	20	739.1			962.5	2520.2			
2012	18-Sep-12	21	370.7			544.7	2130.3			
2012	18-Sep-12	22	324.5			488.1	1780.5			
2012	18-Sep-12	23	515.9			485.4	1702.2			
2012	19-Sep-12	0	429.7			480.4	1686.9			
2012	19-Sep-12	1	405.5			479.2	1686.1			
2012	19-Sep-12	2	399			478	1684.3			
2012	19-Sep-12	3	362.1			479.6	1683.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-Sep-12	4	373.4			457.5	1689.7			
2012	19-Sep-12	5	442.5			445.6	1830.3			
2012	19-Sep-12	6	434.9			443.1	1718.7			
2012	19-Sep-12	7	419.9			444.7	1664.3			
2012	19-Sep-12	8	436.6			446.9	1712.7			
2012	19-Sep-12	9	563			449.7	1861.4			
2012	19-Sep-12	10	527.2			445.7	1723.2			
2012	19-Sep-12	11	516.5			448.1	1683.3			
2012	19-Sep-12	12	585.5			453.9	1711.5			
2012	19-Sep-12	13	576.4			478.1	1752.6			
2012	19-Sep-12	14	661.6			597.5	1910			
2012	19-Sep-12	15	839.4			508.5	2165.2			
2012	19-Sep-12	16	468.4			651.2	2318.6			
2012	19-Sep-12	17	388.8			552.7	2116.2			
2012	19-Sep-12	18	512.2			716.7	2176.4			
2012	19-Sep-12	19	722.9			899.3	2316.6			
2012	19-Sep-12	20	940.6			602.5	2283.9			
2012	19-Sep-12	21	589			503.9	1967.5			
2012	19-Sep-12	22	388.9			488.4	1723.2			
2012	19-Sep-12	23	565.8			490.3	1725.8			
2012	20-Sep-12	0	294.8			489.9	1744.6			
2012	20-Sep-12	1	235.2			489.6	1737.8			
2012	20-Sep-12	2	150.1			487.5	1768.2			
2012	20-Sep-12	3	123.2			488.8	1785.1			
2012	20-Sep-12	4	117.4			456	1787			
2012	20-Sep-12	5	122.5			446.9	1924.5			
2012	20-Sep-12	6	109.7			448.6	1836.5			
2012	20-Sep-12	7	108.3			448	1835.2			
2012	20-Sep-12	8	115.2			448.4	2054.9			
2012	20-Sep-12	9	133.7			450.6	2305.4			
2012	20-Sep-12	10	337.5			452.1	2272.5			
2012	20-Sep-12	11	484.7			455.7	2377.1			
2012	20-Sep-12	12	618.8			466.1	2395.1			
2012	20-Sep-12	13	949.9			858.5	2645.8			
2012	20-Sep-12	14	1171.9			780.6	2655.8			
2012	20-Sep-12	15	1143.3			577.3	2665.2			
2012	20-Sep-12	16	1336.2			673.5	2728.8			
2012	20-Sep-12	17	1370.2			578.5	2605.3			
2012	20-Sep-12	18	1515.8			1007.7	2912.6			
2012	20-Sep-12	19	667.6			1104.8	2742.2			
2012	20-Sep-12	20	428			582.5	2494.6			
2012	20-Sep-12	21	359.3			509.4	2155.6			
2012	20-Sep-12	22	205.8			491.3	2013.1			
2012	20-Sep-12	23	126.3			485.8	2035.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-Sep-12	0	119.1			486.5	2045.7			
2012	21-Sep-12	1	93.7			480.9	2035.3			
2012	21-Sep-12	2	86.1			483.6	2009.8			
2012	21-Sep-12	3	83.5			485.3	1995.6			
2012	21-Sep-12	4	83.6			489	1988.4			
2012	21-Sep-12	5	88			473.2	2133.1			
2012	21-Sep-12	6	91.1			469.4	2012.6			
2012	21-Sep-12	7	101.8			467.7	1878.6			
2012	21-Sep-12	8	149.8			481.7	1932.6			
2012	21-Sep-12	9	159			493.8	2170.1			
2012	21-Sep-12	10	221.3			506	2283.6			
2012	21-Sep-12	11	235.4			514.4	2282.9			
2012	21-Sep-12	12	307.5			524.2	2291.2			
2012	21-Sep-12	13	422.3			534.7	2283.1			
2012	21-Sep-12	14	525.8			543.2	2271.8			
2012	21-Sep-12	15	393.3			548.8	2309.5			
2012	21-Sep-12	16	119			555.2	2166.5			
2012	21-Sep-12	17	94.1			568.4	2018.1			
2012	21-Sep-12	18	127.7			570.3	2118.1			
2012	21-Sep-12	19	64.8			573.6	2137.2			
2012	21-Sep-12	20	24.1			573.4	1922.2			
2012	21-Sep-12	21	18.8			576.4	1899.4			
2012	21-Sep-12	22	20			577.9	1883.9			
2012	21-Sep-12	23	21.9			578	1904.4			
2012	22-Sep-12	0	32.8			576.7	1946.9			
2012	22-Sep-12	1	49			581.2	1959			
2012	22-Sep-12	2	111.2			579.7	1894.3			
2012	22-Sep-12	3	224.1			581.3	1876			
2012	22-Sep-12	4	293.7			577	1848.9			
2012	22-Sep-12	5	500.3			577.2	1861.2			
2012	22-Sep-12	6	739.8			576.6	1855.8			
2012	22-Sep-12	7	1027.4			575.3	1814.6			
2012	22-Sep-12	8	1229.1			580.3	2002.8			
2012	22-Sep-12	9	1181.1			469.4	1989.7			
2012	22-Sep-12	10	1398.6			447.7	2037.2			
2012	22-Sep-12	11	675.8			389.4	2279.7			
2012	22-Sep-12	12	973.2			449.3	2448.4			
2012	22-Sep-12	13	1543			452	2684.7			
2012	22-Sep-12	14	1544.6			489.5	2702.4			
2012	22-Sep-12	15	1454.2			676.7	2912			
2012	22-Sep-12	16	1646.1			499.6	2921.2			
2012	22-Sep-12	17	1542.9			502.4	2869.6			
2012	22-Sep-12	18	1610.5			522.3	2848.7			
2012	22-Sep-12	19	1301.4			780.2	3064.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	22-Sep-12	20	1209.8			469.9	2822.4			
2012	22-Sep-12	21	684.4			447.7	2333.1			
2012	22-Sep-12	22	373			444.1	2034.6			
2012	22-Sep-12	23	801.6			449.6	1939.2			
2012	23-Sep-12	0	332.1			453.4	1923.8			
2012	23-Sep-12	1	151.7			449	1933.7			
2012	23-Sep-12	2	114.5			494.4	1950.7			
2012	23-Sep-12	3	98.9			443.8	1950.4			
2012	23-Sep-12	4	87.3			442.7	1965.9			
2012	23-Sep-12	5	89.2			438.1	2021.6			
2012	23-Sep-12	6	101.4			387	2010.8			
2012	23-Sep-12	7	109.6			388.7	1939.6			
2012	23-Sep-12	8	115.4			395.7	1957.9			
2012	23-Sep-12	9	98.7			392.6	1949.1			
2012	23-Sep-12	10	105.7			389.4	1943.6			
2012	23-Sep-12	11	122.3			399	1959.1			
2012	23-Sep-12	12	105.5			453.9	1966.4			
2012	23-Sep-12	13	119.8			450.3	1994			
2012	23-Sep-12	14	129.7			445.4	1979.3			
2012	23-Sep-12	15	151.1			449.3	1974.7			
2012	23-Sep-12	16	163.5			450.3	2002.3			
2012	23-Sep-12	17	171.5			449.4	1915.7			
2012	23-Sep-12	18	201.1			448.3	2055			
2012	23-Sep-12	19	290.2			439.8	2237.5			
2012	23-Sep-12	20	263.4			443.2	2180.7			
2012	23-Sep-12	21	202.7			439.6	1874.8			
2012	23-Sep-12	22	195			439.6	1853.8			
2012	23-Sep-12	23	117.5			440.6	1874.3			
2012	24-Sep-12	0	225.5			442.5	1895.1			
2012	24-Sep-12	1	543.5			439.4	1933.6			
2012	24-Sep-12	2	533.5			434.7	1986.9			
2012	24-Sep-12	3	509			434.5	2004.1			
2012	24-Sep-12	4	513.4			445.4	1955.5			
2012	24-Sep-12	5	511.3			466.6	1994.2			
2012	24-Sep-12	6	938.1			472.9	2116.8			
2012	24-Sep-12	7	718.2			477.5	2108.3			
2012	24-Sep-12	8	1047.1			486.5	2068.1			
2012	24-Sep-12	9	1650.1			494.7	2328			
2012	24-Sep-12	10	2032.7			494.1	2129.7			
2012	24-Sep-12	11	1194.2			578.2	2299.3			
2012	24-Sep-12	12	821.5			693.2	2435.4			
2012	24-Sep-12	13	709.8			572	2569.9			
2012	24-Sep-12	14	579.3			531.9	2577.8			
2012	24-Sep-12	15	508.5			523.8	2285.2			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	24-Sep-12	16	496.4			521.9	2144.6			
2012	24-Sep-12	17	399.1			485.9	2176.7			
2012	24-Sep-12	18	350.4			479	2244.6			
2012	24-Sep-12	19	436.5			610.3	2538.5			
2012	24-Sep-12	20	338.6			467.3	2122.1			
2012	24-Sep-12	21	511.3			460.9	1982.3			
2012	24-Sep-12	22	474.1			463	1961.6			
2012	24-Sep-12	23	449.8			459.7	1951.3			
2012	25-Sep-12	0	339.1			458.4	1929.9			
2012	25-Sep-12	1	244.8			463.6	1905.3			
2012	25-Sep-12	2	228.3			467.7	1894.9			
2012	25-Sep-12	3	234.1			471	1901.9			
2012	25-Sep-12	4	174.4			475.1	1893.5			
2012	25-Sep-12	5	269			794.2	2151.6			
2012	25-Sep-12	6	802.8			2186.7	2795.7			
2012	25-Sep-12	7	897.1			1659	2791.4			
2012	25-Sep-12	8	1865.2			1171.4	2852.4			
2012	25-Sep-12	9	1282.7			1230.4	2971.6			
2012	25-Sep-12	10	486.8			1116	2800.2			
2012	25-Sep-12	11	630.9			1047.3	2751.1			
2012	25-Sep-12	12	820.7			966.9	2619			
2012	25-Sep-12	13	880.8			849	2676.7			
2012	25-Sep-12	14	928.2			914.2	2782.9			
2012	25-Sep-12	15	975.6			589	2672.6			
2012	25-Sep-12	16	1050.3			838.6	2909.8			
2012	25-Sep-12	17	857.3			721.5	2851.1			
2012	25-Sep-12	18	736.9			700.6	2794.5			
2012	25-Sep-12	19	646			1220.9	2992.6			
2012	25-Sep-12	20	400.1			891.8	2702.5			
2012	25-Sep-12	21	312.1			503.8	2337.1			
2012	25-Sep-12	22	450.7			488.2	2001.1			
2012	25-Sep-12	23	343.3			479.1	1875.9			
2012	26-Sep-12	0	265.5			473	1829			
2012	26-Sep-12	1	196.5			464.1	1792			
2012	26-Sep-12	2	161.4		0.041	458.6	1787			
2012	26-Sep-12	3	185.5		0.058	462.3	1784.2			
2012	26-Sep-12	4	213		0.086	474.3	1778.9			
2012	26-Sep-12	5	260.9		0.086	521.4	1964.5			
2012	26-Sep-12	6	372.6		0.086	482	1996.8			
2012	26-Sep-12	7	496.4		0.077	477.8	2062.5			
2012	26-Sep-12	8	909.9		0.057	506.8	2151.4			
2012	26-Sep-12	9	1378.2		0.082	495.3	2421.7			
2012	26-Sep-12	10	993.9		0.139	506.2	2446.5			
2012	26-Sep-12	11	869.7		0.241	506	2585.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-Sep-12	12	1074.6		0.227	668.5	2739			
2012	26-Sep-12	13	1132.2		0.223	1038.1	2818.5			
2012	26-Sep-12	14	1023		0.279	1585.5	2940.4			
2012	26-Sep-12	15	833.6		0.288	1901.4	2903			
2012	26-Sep-12	16	907.9		0.245	1939.5	2911.5			
2012	26-Sep-12	17	860.3		0.246	1339.1	2700			
2012	26-Sep-12	18	786.7		0.335	1044.2	2674.6			
2012	26-Sep-12	19	674.3		0.427	1486.4	2900.5			
2012	26-Sep-12	20	713.9		0.019	1104.1	2807.1			
2012	26-Sep-12	21	461.2			570	2441			
2012	26-Sep-12	22	219.4			454.9	2062.2			
2012	26-Sep-12	23	273.9			453.4	1797.3			
2012	27-Sep-12	0	234.1			450.5	1814.3			
2012	27-Sep-12	1	140.3			448.1	1812.6			
2012	27-Sep-12	2	31.561			414.4	1828.8			
2012	27-Sep-12	3				392.7	1845.9			
2012	27-Sep-12	4				390.2	1939.5			
2012	27-Sep-12	5				515.4	2246.8			
2012	27-Sep-12	6				948.4	2589.3			
2012	27-Sep-12	7				742.1	2610.3			
2012	27-Sep-12	8				1550.7	2881.1			
2012	27-Sep-12	9				2297.8	2764			
2012	27-Sep-12	10				2315	2765.6			
2012	27-Sep-12	11				2327.9	2775.3			
2012	27-Sep-12	12				2283.3	2766.4			
2012	27-Sep-12	13				2353.2	2790.6			
2012	27-Sep-12	14				2375.1	2792.9			
2012	27-Sep-12	15				2377	2818.2			
2012	27-Sep-12	16				2413.4	2975.8			
2012	27-Sep-12	17				2386.5	2966			
2012	27-Sep-12	18				2461.1	3005.3			
2012	27-Sep-12	19				2084.7	2988.7			
2012	27-Sep-12	20				1816.7	2971.1			
2012	27-Sep-12	21				1322.6	2797.6			
2012	27-Sep-12	22				752.9	2487.4			
2012	27-Sep-12	23				495.6	2185.9			
2012	28-Sep-12	0				488	2116.6			
2012	28-Sep-12	1				486.5	1900.4			
2012	28-Sep-12	2			0.057	480.7	1825			
2012	28-Sep-12	3			0.084	475.9	1826.6			
2012	28-Sep-12	4			0.082	467.8	1817.9			
2012	28-Sep-12	5			0.068	564.5	1998.1			
2012	28-Sep-12	6			0.078	966.2	2364.3			
2012	28-Sep-12	7			0.111	1671	2680.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	28-Sep-12	8			0.241	1750.7	2983.5			
2012	28-Sep-12	9			0.331	2032	3067.7			
2012	28-Sep-12	10			0.459	2203.4	3080.1			
2012	28-Sep-12	11			0.495	2219.9	3050.2			
2012	28-Sep-12	12			0.584	2174.6	3054.3			
2012	28-Sep-12	13			0.53	2187.3	3004			
2012	28-Sep-12	14			0.476	1980	2997			
2012	28-Sep-12	15			0.431	1876.6	3017.9			
2012	28-Sep-12	16			0.435	1113.2	2908			
2012	28-Sep-12	17			0.38	686.4	2691.2			
2012	28-Sep-12	18			0.236	684.6	2636.9			
2012	28-Sep-12	19			0.233	603.3	2665.3			
2012	28-Sep-12	20			0.235	540.8	2499.7			
2012	28-Sep-12	21			0.062	466	2240.4			
2012	28-Sep-12	22			0.039	204	2058.4			
2012	28-Sep-12	23			0.036		1791.5			
2012	29-Sep-12	0			0.036		1751.5			
2012	29-Sep-12	1			0.036		1754.7			
2012	29-Sep-12	2			0.035		1745.5			
2012	29-Sep-12	3			0.019		1744			
2012	29-Sep-12	4					1741.5			
2012	29-Sep-12	5					1735.5			
2012	29-Sep-12	6					1733.8			
2012	29-Sep-12	7					1712			
2012	29-Sep-12	8					1947.7			
2012	29-Sep-12	9					2013.8			
2012	29-Sep-12	10					1900.9			
2012	29-Sep-12	11					2180.2			
2012	29-Sep-12	12			0.033		2093.3			
2012	29-Sep-12	13			0.036		2363.7			
2012	29-Sep-12	14			0.036		2426.7			
2012	29-Sep-12	15			0.036		2259.3			
2012	29-Sep-12	16			0.036		2207			
2012	29-Sep-12	17			0.036		2048.2			
2012	29-Sep-12	18			0.036		1896.8			
2012	29-Sep-12	19	0		0.036		1917.1			
2012	29-Sep-12	20	0		0.036		1767.7			
2012	29-Sep-12	21	0		0.036		1719.1			
2012	29-Sep-12	22	0		0.036		1719.3			
2012	29-Sep-12	23	0		0.036		1724.1			
2012	30-Sep-12	0	0		0.036		1725.4			
2012	30-Sep-12	1	0		0.036		1718.4			
2012	30-Sep-12	2	0		0.036		1712.7			
2012	30-Sep-12	3	0		0.036		1728			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	30-Sep-12	4	0		0.036		1721.1			
2012	30-Sep-12	5	0		0.036		1723.5			
2012	30-Sep-12	6	0		0.036		1716.6			
2012	30-Sep-12	7	0.9		0.036		1682.3			
2012	30-Sep-12	8	0		0.035		1700.8			
2012	30-Sep-12	9	0		0.035		1705.8			
2012	30-Sep-12	10	0		0.035		1712.8			
2012	30-Sep-12	11	0		0.035		1727.7			
2012	30-Sep-12	12	0		0.035		1735.8			
2012	30-Sep-12	13	0		0.036		1840.7			
2012	30-Sep-12	14	0		0.036		1723			
2012	30-Sep-12	15	1.1		0.036		1716.1			
2012	30-Sep-12	16	5.7		0.036		1717.6			
2012	30-Sep-12	17	20.1		0.036		1721.1			
2012	30-Sep-12	18	48.2		0.035		1821.6			
2012	30-Sep-12	19	89		0.035		1811.5			
2012	30-Sep-12	20	261.6		0.035		1733.7			
2012	30-Sep-12	21	315.2		0.035		1725.3			
2012	30-Sep-12	22	324.4		0.035		1740.4			
2012	30-Sep-12	23	306.7		0.035		1736.5			
2012	1-Oct-12	0	388.1		0.035		1733.6			
2012	1-Oct-12	1	576.2		0.035		1721.2			
2012	1-Oct-12	2	527.4		0.035		1727.2			
2012	1-Oct-12	3	563.1		0.035		1754.2			
2012	1-Oct-12	4	630.5		0.035		1753.5			
2012	1-Oct-12	5	636		0.035		1960			
2012	1-Oct-12	6	508.6		0.035		1979			
2012	1-Oct-12	7	632.1		0.035		2081			
2012	1-Oct-12	8	727.7		0.035		2029.6			
2012	1-Oct-12	9	941.7		0.035		2049.2			
2012	1-Oct-12	10	962.6		0.035		2113.1			
2012	1-Oct-12	11	1193.8		0.035		2183.7			
2012	1-Oct-12	12	1764.2		0.035		2299			
2012	1-Oct-12	13	784.5		0.036		2190.8			
2012	1-Oct-12	14	451.5		0.036		2111.8			
2012	1-Oct-12	15	259.2		0.036		1988			
2012	1-Oct-12	16	268.3		0.036		1982.4			
2012	1-Oct-12	17	318.2		0.036		2132.5			
2012	1-Oct-12	18	533.9		0.036		2326			
2012	1-Oct-12	19	727.9		0.036		2546.4			
2012	1-Oct-12	20	670		0.036		2145.2			
2012	1-Oct-12	21	510.1		0.036		1858.6			
2012	1-Oct-12	22	326.8		0.036		1777.7			
2012	1-Oct-12	23	631		0.036		1774.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	2-Oct-12	0	329.7		0.036		1778.2			
2012	2-Oct-12	1	326.5		0.036		1757.5			
2012	2-Oct-12	2	290.8		0.036		1760.1			
2012	2-Oct-12	3	286.8		0.036		1753			
2012	2-Oct-12	4	315.1		0.036		1809.4			
2012	2-Oct-12	5	349.7		0.036		1925			
2012	2-Oct-12	6	493		0.036		2117.2			
2012	2-Oct-12	7	885.2		0.036		2420.9			
2012	2-Oct-12	8	1255.5		0.036		2611.3			
2012	2-Oct-12	9	1223.6		0.036		2550.4			
2012	2-Oct-12	10	819.4		0.036		2604.3			
2012	2-Oct-12	11	836.6		0.035		2816.6			
2012	2-Oct-12	12	892.8		0.035		2865.4			
2012	2-Oct-12	13	952.5		0.035		2660.3			
2012	2-Oct-12	14	786.8		0.035		2411			
2012	2-Oct-12	15	606.6		0.035		2443.1			
2012	2-Oct-12	16	576.2		0.035		2540.3			
2012	2-Oct-12	17	588		0.035		2555.4			
2012	2-Oct-12	18	640.8		0.036		2798.6			
2012	2-Oct-12	19	763.7		0.05		2868.8			
2012	2-Oct-12	20	788.4		0.077		2743.2			
2012	2-Oct-12	21	940.1		0.085		2372.4			
2012	2-Oct-12	22	669.9		0.085		2017.6			
2012	2-Oct-12	23	398.9		0.083		1845.4			
2012	3-Oct-12	0	348.5		0.077		1743.2			
2012	3-Oct-12	1	323.4		0.077		1735.4			
2012	3-Oct-12	2	314.9		0.083		1728.3			
2012	3-Oct-12	3	261.2		0.094		1739.3			
2012	3-Oct-12	4	251.1		0.276		1804.8			
2012	3-Oct-12	5	254.5		0.238		2157.6			
2012	3-Oct-12	6	272.7		0.234		2388.5			
2012	3-Oct-12	7	522.3		0.24		2561.3			
2012	3-Oct-12	8	951.4		0.214		2777.2			
2012	3-Oct-12	9	719		0.232		2807.8			
2012	3-Oct-12	10	687.2		0.241		2765.7			
2012	3-Oct-12	11	529.1		0.237		2796.8			
2012	3-Oct-12	12	609.4		0.235		2905.6			
2012	3-Oct-12	13	733.1		0.236		2856.3			
2012	3-Oct-12	14	840.4		0.236		2870.4			
2012	3-Oct-12	15	780.1		0.235		2889.5			
2012	3-Oct-12	16	865.6		0.233		2877.9			
2012	3-Oct-12	17	802		0.236		2788.1			
2012	3-Oct-12	18	840		0.354		2888.5			
2012	3-Oct-12	19	802.6		0.487		2882.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	3-Oct-12	20	835.4		0.339		2832.4			
2012	3-Oct-12	21	522.8		0.036		2694.4			
2012	3-Oct-12	22	388.4		0.036		2561.7			
2012	3-Oct-12	23	209.1		0.02		2109.2			
2012	4-Oct-12	0	97.8				2135.3			
2012	4-Oct-12	1	60.8		0.058		2000.3			
2012	4-Oct-12	2	61.6		0.077		1805.7			
2012	4-Oct-12	3	73		0.061		1786.1			
2012	4-Oct-12	4	78.7		0.054		1912.8			
2012	4-Oct-12	5	69.6		0.054		2197.1			
2012	4-Oct-12	6	64.1		0.054		2605.8			
2012	4-Oct-12	7	72.4		0.088		2865			
2012	4-Oct-12	8	81.5		0.258		2914.9			
2012	4-Oct-12	9	358.6		0.339		2992.9			
2012	4-Oct-12	10	399.1		0.522		2940.9			
2012	4-Oct-12	11	389.7		0.57		2985.4			
2012	4-Oct-12	12	847.5		0.525		3010.2			
2012	4-Oct-12	13	1189.5		0.509		2981.3			
2012	4-Oct-12	14	1228.5		0.51		2856.5			
2012	4-Oct-12	15	1263.6		0.502		2908.2			
2012	4-Oct-12	16	1062.1		0.511		2971.3			
2012	4-Oct-12	17	534		0.484		2805.5			
2012	4-Oct-12	18	594.9		0.513		2884.6			
2012	4-Oct-12	19	587.1		0.316		2952.6			
2012	4-Oct-12	20	548.2		0.036		2763			
2012	4-Oct-12	21	398.1		0.036		2398.6			
2012	4-Oct-12	22	271.6		0.036		1956.3			
2012	4-Oct-12	23	391.5		0.035		1699			
2012	5-Oct-12	0	266.9		0.035		1696.8		3.735	
2012	5-Oct-12	1	218.1		0.035		1704.7		13.5	
2012	5-Oct-12	2	151.7		0.035		1720		25.7	
2012	5-Oct-12	3	126		0.035		1724.9		47.1	
2012	5-Oct-12	4	136.1		0.035		1800.3		62.5	
2012	5-Oct-12	5	158.9		0.035		2051.9		71.3	
2012	5-Oct-12	6	201.9		0.035		2387.5		78.6	
2012	5-Oct-12	7	291.1		0.035		2330.8		75.5	
2012	5-Oct-12	8	406.8		0.035		2409.2		63.5	
2012	5-Oct-12	9	608.6		0.035		2637.6		63.4	
2012	5-Oct-12	10	740.3		0.035		2760.4		75.9	
2012	5-Oct-12	11	1172.3		0.035		2789.3		172.3	
2012	5-Oct-12	12	1420.2		0.035		2796.9		322.7	
2012	5-Oct-12	13	1033.3		0.035		2815.2		381.9	
2012	5-Oct-12	14	951		0.035		2785.1		516.6	
2012	5-Oct-12	15	1428.9		0.035		2780		551.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	5-Oct-12	16	1498.1		0.035		2779.9		557.3	
2012	5-Oct-12	17	1334.5		0.035		2648.4		576.3	
2012	5-Oct-12	18	1396.4		0.035		2620		677.6	
2012	5-Oct-12	19	1438.8		0.035		2679.7		736.4	
2012	5-Oct-12	20	1337.3		0.035		2514.8		758.1	
2012	5-Oct-12	21	1149.3		0.035		2281.7		750.8	
2012	5-Oct-12	22	943.7		0.042		1955.1		688.6	
2012	5-Oct-12	23	715.6		0.067		1584.5		655.8	
2012	6-Oct-12	0	493.8		0.063		440.056		641.8	
2012	6-Oct-12	1	328.8		0.052				638	
2012	6-Oct-12	2	190.2		0.041				632.5	
2012	6-Oct-12	3	170.1		0.035				623.3	
2012	6-Oct-12	4	168.7		0.035				627.9	
2012	6-Oct-12	5	198.4		0.035				705.6	
2012	6-Oct-12	6	202.2		0.035				832.9	
2012	6-Oct-12	7	215.4		0.035				868.6	
2012	6-Oct-12	8	331		0.035				852.6	
2012	6-Oct-12	9	519.6		0.035				872.4	
2012	6-Oct-12	10	641.2		0.035				899.7	
2012	6-Oct-12	11	650.1		0.035				910	
2012	6-Oct-12	12	656.2		0.035				846.4	
2012	6-Oct-12	13	689.7		0.035				847.6	
2012	6-Oct-12	14	629		0.034				819.4	
2012	6-Oct-12	15	446		0.034				828.9	
2012	6-Oct-12	16	363.4		0.034				771.5	
2012	6-Oct-12	17	293.7		0.034				915.8	
2012	6-Oct-12	18	352.7		0.034				1082.5	
2012	6-Oct-12	19	351.7		0.035				1070.7	
2012	6-Oct-12	20	363.3		0.051				1065	
2012	6-Oct-12	21	296.7		0.052				1035.7	
2012	6-Oct-12	22	263.7		0.04				984	
2012	6-Oct-12	23	244		0.034				810.5	
2012	7-Oct-12	0	233.1		0.034				808.3	
2012	7-Oct-12	1	204.5		0.034				768.6	
2012	7-Oct-12	2	138.5		0.049				740.3	
2012	7-Oct-12	3	121.9		0.049				810.9	
2012	7-Oct-12	4	139.6		0.034				814.1	
2012	7-Oct-12	5	139.8		0.034				847	
2012	7-Oct-12	6	157.4		0.034				828.9	
2012	7-Oct-12	7	180.1		0.034				944.7	
2012	7-Oct-12	8	192.7		0.034				965.4	
2012	7-Oct-12	9	319.4		0.034				947.7	
2012	7-Oct-12	10	431.8		0.034				960.4	
2012	7-Oct-12	11	763.7		0.034				949.3	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	7-Oct-12	12	810.7		0.034				887.5	
2012	7-Oct-12	13	469.4		0.034				849.2	
2012	7-Oct-12	14	255.9		0.034				945.7	
2012	7-Oct-12	15	246.3		0.034				955.9	
2012	7-Oct-12	16	437.8		0.034				1008.7	
2012	7-Oct-12	17	497.9		0.034				746.1	
2012	7-Oct-12	18	842.7		0.034				443.1	
2012	7-Oct-12	19	1310.6		0.034				12.727	
2012	7-Oct-12	20	1321.5		0.038					
2012	7-Oct-12	21	1201.2		0.051					
2012	7-Oct-12	22	621.9		0.051					
2012	7-Oct-12	23	348.1		0.039					
2012	8-Oct-12	0	303.4		0.034					
2012	8-Oct-12	1	263.5		0.034					
2012	8-Oct-12	2	223.3		0.034					
2012	8-Oct-12	3	219.4		0.039					
2012	8-Oct-12	4	230.9		0.051					
2012	8-Oct-12	5	345.9		0.039					
2012	8-Oct-12	6	660.4		0.034					
2012	8-Oct-12	7	1254		0.034					
2012	8-Oct-12	8	1518.3		0.042					
2012	8-Oct-12	9	1429.1		0.051					
2012	8-Oct-12	10	1253.5		0.041					
2012	8-Oct-12	11	1441.3		0.034					
2012	8-Oct-12	12	1676		0.034					
2012	8-Oct-12	13	1749.5		0.035					
2012	8-Oct-12	14	1507.9		0.051					
2012	8-Oct-12	15	1530.7		0.051					
2012	8-Oct-12	16	1641.2		0.051					
2012	8-Oct-12	17	1418.7		0.065					
2012	8-Oct-12	18	1356.7		0.065		0			
2012	8-Oct-12	19	1442.5		0.063		0			
2012	8-Oct-12	20	1471		0.058		40			
2012	8-Oct-12	21	1282.7		0.053		243			
2012	8-Oct-12	22	1040.9		0.065		318.9			
2012	8-Oct-12	23	780.4		0.056		421.4			
2012	9-Oct-12	0	507		0.051		800			
2012	9-Oct-12	1	312.3		0.039		1316.5			
2012	9-Oct-12	2	360.3		0.034		1518.4			
2012	9-Oct-12	3	738.8		0.034		1809.2			
2012	9-Oct-12	4	1238.2		0.034		2191.4			
2012	9-Oct-12	5	1258.3		0.034		2478.6			
2012	9-Oct-12	6	1112.8		0.034		2665			
2012	9-Oct-12	7	1077.1		0.034		2579.9			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	9-Oct-12	8	1116.6		0.041		2529.3			
2012	9-Oct-12	9	1192.7		0.051		2662.5			
2012	9-Oct-12	10	1254		0.051		2754.9			
2012	9-Oct-12	11	1232.6		0.051		2601.3			
2012	9-Oct-12	12	1469.9		0.035		2366			
2012	9-Oct-12	13	1608		0.034		2039.5			
2012	9-Oct-12	14	1512.7		0.035		1743.4			
2012	9-Oct-12	15	1489.4		0.034		1674.3			
2012	9-Oct-12	16	1427.1		0.051		1616.2			
2012	9-Oct-12	17	910.1		0.051		1639.2			
2012	9-Oct-12	18	1006.7		0.051		1979			
2012	9-Oct-12	19	1154		0.051		2176.5			
2012	9-Oct-12	20	903.6		0.047		1973.1			
2012	9-Oct-12	21	696.2		0.034		1744			
2012	9-Oct-12	22	631.4		0.035		1891.9			
2012	9-Oct-12	23	548.8		0.034		1775.3			
2012	10-Oct-12	0	523.2		0.034		1614.4			
2012	10-Oct-12	1	374.3		0.035		1605.7			
2012	10-Oct-12	2	315.9		0.034		1599.5			
2012	10-Oct-12	3	335.6		0.034		1609			
2012	10-Oct-12	4	524.7		0.034		1787.8			
2012	10-Oct-12	5	1102.5		0.044		2138.9			
2012	10-Oct-12	6	1775.8		0.048		2456.6			
2012	10-Oct-12	7	1803.9		0.034		2665.6			
2012	10-Oct-12	8	1711.5		0.034		2681.2			
2012	10-Oct-12	9	1765.6		0.034		2497.9			
2012	10-Oct-12	10	1768.5		0.044		2254.4			
2012	10-Oct-12	11	1534.3		0.051		2100.2			
2012	10-Oct-12	12	1420.3		0.051		2128.2			
2012	10-Oct-12	13	1532.7		0.035		2278.8			
2012	10-Oct-12	14	1469.4		0.034		2086.2			
2012	10-Oct-12	15	1197.7		0.035		1978.6			
2012	10-Oct-12	16	984.1		0.035		1937.9			
2012	10-Oct-12	17	1108.5		0.035		1981.2			
2012	10-Oct-12	18	1160.3		0.035		2310.1			
2012	10-Oct-12	19	821.8		0.034		2604.7			
2012	10-Oct-12	20	856.1		0.034		2638.5			
2012	10-Oct-12	21	631.9		0.035		2468.2			
2012	10-Oct-12	22	529.6		0.035		2197.4			
2012	10-Oct-12	23	469.5		0.035		2034.3			
2012	11-Oct-12	0	228.9		0.034		1753.7			
2012	11-Oct-12	1	212.4		0.034		1613.7			
2012	11-Oct-12	2	267.3		0.034		1744.7			
2012	11-Oct-12	3	303.3		0.034		1900.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	11-Oct-12	4	596		0.035		2192			
2012	11-Oct-12	5	1118.3		0.035		2527.6			
2012	11-Oct-12	6	1095.2		0.034		2647			
2012	11-Oct-12	7	1369.5		0.034		2665.9			
2012	11-Oct-12	8	1421		0.034		2722.1			
2012	11-Oct-12	9	1547.9		0.034		2748.1			
2012	11-Oct-12	10	1307.9		0.034		2660.1			
2012	11-Oct-12	11	1119.2		0.034		2488.9			
2012	11-Oct-12	12	1317.1		0.034		2423.3			
2012	11-Oct-12	13	1053		0.034		2168.6			
2012	11-Oct-12	14	638.3		0.034		1818.6			
2012	11-Oct-12	15	442.2		0.035		1895.2			
2012	11-Oct-12	16	410.6		0.035		1898.5			
2012	11-Oct-12	17	398.1		0.035		1954.9			
2012	11-Oct-12	18	746.6		0.035		2195.1			
2012	11-Oct-12	19	949.1		0.035		2099.7			
2012	11-Oct-12	20	823.8		0.035		1905.8			
2012	11-Oct-12	21	1038.9		0.035		1639.1			
2012	11-Oct-12	22	729.2		0.034		1625.1			
2012	11-Oct-12	23	489.7		0.034		1621.8			
2012	12-Oct-12	0	343		0.034		1663.4			
2012	12-Oct-12	1	276.9		0.034		1712.4			
2012	12-Oct-12	2	242.7		0.034		1629.7			
2012	12-Oct-12	3	265		0.034		1606.4			
2012	12-Oct-12	4	281.1		0.034		1778.5			
2012	12-Oct-12	5	300		0.034		1880.6			
2012	12-Oct-12	6	387		0.034		1888			
2012	12-Oct-12	7	409.8		0.034		1992.1			
2012	12-Oct-12	8	494.4		0.034		2362.4			
2012	12-Oct-12	9	742.5		0.034		2435.7			
2012	12-Oct-12	10	977.5		0.034		2464.1			
2012	12-Oct-12	11	784.9		0.034		2435.3			
2012	12-Oct-12	12	971		0.034		2515.6		0	
2012	12-Oct-12	13	947.6		0.034		2387.4		0	
2012	12-Oct-12	14	817.5		0.034		2356.9		49.8	
2012	12-Oct-12	15	741.1		0.035		2340.3		86.3	
2012	12-Oct-12	16	520.2		0.035		2310		99.9	
2012	12-Oct-12	17	278.2		0.035		2203.3		94.1	
2012	12-Oct-12	18	260.8		0.035		2370.2		45.1	
2012	12-Oct-12	19	322.5		0.035		2454.5		2.288	
2012	12-Oct-12	20	302.7		0.035		2322.9			
2012	12-Oct-12	21	246.2		0.061		1638.8			
2012	12-Oct-12	22	320.6		0.065		1399.3			
2012	12-Oct-12	23	635.1		0.063		513.708			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	13-Oct-12	0	665.8		0.034					
2012	13-Oct-12	1	653.5		0.034					
2012	13-Oct-12	2	631.3		0.034				0	
2012	13-Oct-12	3	597		0.034				21	
2012	13-Oct-12	4	292.7		0.058				94.2	
2012	13-Oct-12	5	287.4		0.065				114.2	
2012	13-Oct-12	6	367.8		0.065				113.1	
2012	13-Oct-12	7	571.9		0.062				101.9	
2012	13-Oct-12	8	1018.9		0.05				107.9	
2012	13-Oct-12	9	1220.4		0.05				99.8	
2012	13-Oct-12	10	445.7		0.05				95.6	
2012	13-Oct-12	11	294.2		0.045				96.3	
2012	13-Oct-12	12	241.3		0.034				106	
2012	13-Oct-12	13	217.2		0.034				123.2	
2012	13-Oct-12	14	145.4		0.035				177.4	
2012	13-Oct-12	15	130.8		0.034				189.3	
2012	13-Oct-12	16	183.3		0.035				358.5	
2012	13-Oct-12	17	273.5		0.035				517.2	
2012	13-Oct-12	18	474.9		0.035				680.4	
2012	13-Oct-12	19	379		0.034				754.8	
2012	13-Oct-12	20	410.3		0.034				776.2	
2012	13-Oct-12	21	278.5		0.034				812.3	
2012	13-Oct-12	22	204.6		0.034				807.6	
2012	13-Oct-12	23	142.9		0.034				806.7	
2012	14-Oct-12	0	119.1		0.034				771.7	
2012	14-Oct-12	1	89.8		0.034				794.2	
2012	14-Oct-12	2	84.6		0.034				782.3	
2012	14-Oct-12	3	93		0.034				809.8	
2012	14-Oct-12	4	99		0.034				768	
2012	14-Oct-12	5	79.8		0.034				811.3	
2012	14-Oct-12	6	85.2		0.034				933.2	
2012	14-Oct-12	7	81.2		0.034				1057.7	
2012	14-Oct-12	8	74.9		0.034				1042.6	
2012	14-Oct-12	9	99.9		0.034				1031.1	
2012	14-Oct-12	10	155.5		0.034				1068.3	
2012	14-Oct-12	11	244		0.035				1099.8	
2012	14-Oct-12	12	329.2		0.035				858.1	
2012	14-Oct-12	13	293.5		0.035				737.7	
2012	14-Oct-12	14	275.8		0.035				792.3	
2012	14-Oct-12	15	354.2		0.035				784.1	
2012	14-Oct-12	16	417.1		0.035				835.5	
2012	14-Oct-12	17	473.7		0.035				1009.5	
2012	14-Oct-12	18	733.3		0.035				1075.5	
2012	14-Oct-12	19	1022.2		0.035				1068.7	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	14-Oct-12	20	1052.8		0.035				1028.2	
2012	14-Oct-12	21	880.2		0.035				987.5	
2012	14-Oct-12	22	506.7		0.035				985.8	
2012	14-Oct-12	23	316.5		0.035				880	
2012	15-Oct-12	0	254.7		0.035				713.5	
2012	15-Oct-12	1	181.1		0.034				743	
2012	15-Oct-12	2	161.8		0.035				726.7	
2012	15-Oct-12	3	142.4		0.035				728.5	
2012	15-Oct-12	4	132.9		0.034				728.2	
2012	15-Oct-12	5	127.4		0.034				737.1	
2012	15-Oct-12	6	149		0.035				799	
2012	15-Oct-12	7	189.4		0.014				963.4	
2012	15-Oct-12	8	333.7						1068	
2012	15-Oct-12	9	558.1						1065.3	
2012	15-Oct-12	10	801.6						1100.9	
2012	15-Oct-12	11	1322.3						1057.3	
2012	15-Oct-12	12	1184.6						1010.8	
2012	15-Oct-12	13	713.5		0.016				968	
2012	15-Oct-12	14	553.1		0.034				852.6	
2012	15-Oct-12	15	419.5		0.034				939.4	
2012	15-Oct-12	16	383.8		0.034				877.5	
2012	15-Oct-12	17	934.1		0.034				836.9	
2012	15-Oct-12	18	1093.7		0.034				1030.1	
2012	15-Oct-12	19	927		0.034				1054.3	
2012	15-Oct-12	20	605.8		0.034				991.8	
2012	15-Oct-12	21	322.4		0.034				1007.6	
2012	15-Oct-12	22	205.4		0.034				920.6	
2012	15-Oct-12	23	139.7		0.034				919.5	
2012	16-Oct-12	0	139.1		0.034				911.6	
2012	16-Oct-12	1	98.1		0.034				916.2	
2012	16-Oct-12	2	89.9		0.034				922.7	
2012	16-Oct-12	3	94.6		0.034				950.4	
2012	16-Oct-12	4	98		0.034				967.7	
2012	16-Oct-12	5	116.8		0.034				987.2	
2012	16-Oct-12	6	254		0.034				1031.7	
2012	16-Oct-12	7	501.5		0.034				1010.5	
2012	16-Oct-12	8	877.1		0.034				1001.6	
2012	16-Oct-12	9	824.4		0.034				997.5	
2012	16-Oct-12	10	661.1		0.034				922.6	
2012	16-Oct-12	11	686.5		0.034				756.4	
2012	16-Oct-12	12	843.6		0.034				616.7	
2012	16-Oct-12	13	746.8		0.034				615.7	
2012	16-Oct-12	14	629.3		0.034				673.1	
2012	16-Oct-12	15	571.8		0.034				607.6	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	16-Oct-12	16	675		0.034				618.9	
2012	16-Oct-12	17	535.7		0.034				711.6	2.2
2012	16-Oct-12	18	709.3		0.034				825.2	7.7
2012	16-Oct-12	19	684.9		0.034				906.7	3
2012	16-Oct-12	20	565.4		0.034				890.9	2.1
2012	16-Oct-12	21	231.4		0.034				902.5	2.2
2012	16-Oct-12	22	145.8		0.034				852.7	2.2
2012	16-Oct-12	23	103.7		0.034				678	2.4
2012	17-Oct-12	0	92.9		0.034				589.1	2.5
2012	17-Oct-12	1	69		0.034				574.9	2.5
2012	17-Oct-12	2	59.8		0.034				566.1	2.6
2012	17-Oct-12	3	61.1		0.034				566.6	6
2012	17-Oct-12	4	65.5		0.034				614.7	10.4
2012	17-Oct-12	5	82.2		0.034				613.5	13.2
2012	17-Oct-12	6	170.1		0.034				649.7	2.8
2012	17-Oct-12	7	242.2		0.034				636.7	14
2012	17-Oct-12	8	335		0.034				717.6	3.1
2012	17-Oct-12	9	621		0.034				623.4	2.2
2012	17-Oct-12	10	624.9		0.034				626	2
2012	17-Oct-12	11	662.3		0.034				622.4	2.7
2012	17-Oct-12	12	821.7		0.034				641.2	27.6
2012	17-Oct-12	13	806.4		0.034				649.9	88.3
2012	17-Oct-12	14	654.8		0.034				697	156
2012	17-Oct-12	15	643.2		0.034				647.7	289.9
2012	17-Oct-12	16	834.1		0.034				646.2	253.5
2012	17-Oct-12	17	780.9		0.027				690.5	238.9
2012	17-Oct-12	18	1066.1						764.2	235.4
2012	17-Oct-12	19	841.9						835.2	235.3
2012	17-Oct-12	20	766.4		0.031				828.9	230.5
2012	17-Oct-12	21	573.7		0.035				778.2	235.1
2012	17-Oct-12	22	387.7		0.035				629.4	238.2
2012	17-Oct-12	23	277		0.035				582.8	226.7
2012	18-Oct-12	0	204.7		0.035				571.9	239.1
2012	18-Oct-12	1	126.8		0.035				579.9	228.2
2012	18-Oct-12	2	87		0.035				610.7	238.7
2012	18-Oct-12	3	89.8		0.035				608.8	228.9
2012	18-Oct-12	4	93.2		0.035				583.6	235.7
2012	18-Oct-12	5	102.7		0.035				584.6	284.1
2012	18-Oct-12	6	189.6		0.035				586.5	317.1
2012	18-Oct-12	7	359.9		0.035				585.4	485.3
2012	18-Oct-12	8	508.2		0.035				582.7	538.1
2012	18-Oct-12	9	773.9		0.035				607.8	594.5
2012	18-Oct-12	10	818.6		0.035				703.5	592.5
2012	18-Oct-12	11	816.4		0.035				627.1	598.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	18-Oct-12	12	1061.8		0.035				581.8	751.8
2012	18-Oct-12	13	761.3		0.035				580.9	895.1
2012	18-Oct-12	14	492.1		0.035				572	922.9
2012	18-Oct-12	15	562.1		0.035				619.5	927.3
2012	18-Oct-12	16	793.2		0.035				383.82	925.3
2012	18-Oct-12	17	820.1		0.035					929.3
2012	18-Oct-12	18	1219.7		0.035					683.3
2012	18-Oct-12	19	1207		0.035					498.6
2012	18-Oct-12	20	1197.3		0.035					546.9
2012	18-Oct-12	21	614.6		0.039					541.1
2012	18-Oct-12	22	347.8		0.05					616
2012	18-Oct-12	23	223.2		0.048					565.3
2012	19-Oct-12	0	173.6		0.035				0	560.7
2012	19-Oct-12	1	122		0.035				53.1	563.5
2012	19-Oct-12	2	98.8		0.035				82.5	559.3
2012	19-Oct-12	3	98.3		0.035				70.1	557.4
2012	19-Oct-12	4	102.1		0.035				58.3	556.5
2012	19-Oct-12	5	119.8		0.035				76.1	553.4
2012	19-Oct-12	6	252.9		0.035				90.2	608.5
2012	19-Oct-12	7	469.1		0.035				182.4	664.7
2012	19-Oct-12	8	655.2		0.035				294.3	661
2012	19-Oct-12	9	886		0.035				470.9	659.3
2012	19-Oct-12	10	899.1		0.035				619.5	680.5
2012	19-Oct-12	11	869.6		0.035				789.6	729.6
2012	19-Oct-12	12	992		0.035				873.1	820.3
2012	19-Oct-12	13	1080.2		0.035				721.9	948.6
2012	19-Oct-12	14	1049.7		0.035				571.2	965.3
2012	19-Oct-12	15	1064.6		0.035				556.3	950
2012	19-Oct-12	16	1174.2		0.035				597.4	939.5
2012	19-Oct-12	17	1026.1		0.035				641.2	851.9
2012	19-Oct-12	18	970.7		0.035				672.3	614.7
2012	19-Oct-12	19	1019.4		0.035				665.8	441.4
2012	19-Oct-12	20	1079.1		0.035				666.2	135.5
2012	19-Oct-12	21	989.5		0.035				618.5	8.2
2012	19-Oct-12	22	997.8		0.035				574.5	1.8
2012	19-Oct-12	23	719.4		0.035				571.7	
2012	20-Oct-12	0	578.3		0.035				571.3	
2012	20-Oct-12	1	319		0.035				571.2	
2012	20-Oct-12	2	250.7		0.034				571.8	
2012	20-Oct-12	3	232.5		0.034				601.2	
2012	20-Oct-12	4	254.7		0.034				589	
2012	20-Oct-12	5	196.2		0.034				637	
2012	20-Oct-12	6	237.8		0.035				610.1	
2012	20-Oct-12	7	314.2		0.034				587.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	20-Oct-12	8	439		0.034				609.6	
2012	20-Oct-12	9	535.4		0.035				609.8	
2012	20-Oct-12	10	425.4		0.035				607.9	
2012	20-Oct-12	11	408.9		0.034				601.6	
2012	20-Oct-12	12	416.4		0.035				580.8	
2012	20-Oct-12	13	415.9		0.035				574.2	
2012	20-Oct-12	14	429		0.035				589.4	
2012	20-Oct-12	15	636.5		0.035				595.9	
2012	20-Oct-12	16	547.3		0.034				602.6	
2012	20-Oct-12	17	709.5		0.034				686	
2012	20-Oct-12	18	963.4		0.034				744.4	
2012	20-Oct-12	19	1111.3		0.035				744.2	
2012	20-Oct-12	20	1138.2		0.034				774.2	
2012	20-Oct-12	21	781.5		0.035				692.2	
2012	20-Oct-12	22	559		0.034				610.2	
2012	20-Oct-12	23	544.5		0.034				507.3	
2012	21-Oct-12	0	577.5		0.034				486.1	
2012	21-Oct-12	1	515.1		0.034				258.9	
2012	21-Oct-12	2	471.4		0.034				0.792	
2012	21-Oct-12	3	464.4		0.034					
2012	21-Oct-12	4	503		0.034					
2012	21-Oct-12	5	485.9		0.034					
2012	21-Oct-12	6	414.2		0.034					
2012	21-Oct-12	7	398.5		0.034					
2012	21-Oct-12	8	445.3		0.034					
2012	21-Oct-12	9	437.5		0.034					
2012	21-Oct-12	10	457.7		0.034					
2012	21-Oct-12	11	451.5		0.034					
2012	21-Oct-12	12	413.1		0.035					
2012	21-Oct-12	13	383.9		0.035					
2012	21-Oct-12	14	375.4		0.035					
2012	21-Oct-12	15	387.3		0.034					
2012	21-Oct-12	16	411.7		0.034					
2012	21-Oct-12	17	572.9		0.034					
2012	21-Oct-12	18	845		0.034					
2012	21-Oct-12	19	977.7		0.035					
2012	21-Oct-12	20	751.7		0.034					
2012	21-Oct-12	21	417.8		0.035					
2012	21-Oct-12	22	325.2		0.034					
2012	21-Oct-12	23	292.6		0.034					
2012	22-Oct-12	0	304.3		0.034					
2012	22-Oct-12	1	301.2		0.034					
2012	22-Oct-12	2	302		0.034					
2012	22-Oct-12	3	294.5		0.034					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	22-Oct-12	4	347.6		0.034					
2012	22-Oct-12	5	646.9		0.034					
2012	22-Oct-12	6	791.1		0.02					
2012	22-Oct-12	7	793.8							
2012	22-Oct-12	8	723.8							
2012	22-Oct-12	9	776.8		0.011					
2012	22-Oct-12	10	788.5		0.034					
2012	22-Oct-12	11	684.6		0.027					
2012	22-Oct-12	12	690		0.01					
2012	22-Oct-12	13	743.2		0.034					
2012	22-Oct-12	14	719.1		0.034					
2012	22-Oct-12	15	783.9		0.034					
2012	22-Oct-12	16	962.8		0.035					
2012	22-Oct-12	17	972.3		0.035					
2012	22-Oct-12	18	959.6		0.035					
2012	22-Oct-12	19	994		0.035					
2012	22-Oct-12	20	1085.7		0.035					
2012	22-Oct-12	21	812.4		0.035					
2012	22-Oct-12	22	595.9		0.035					
2012	22-Oct-12	23	509.3		0.034					
2012	23-Oct-12	0	331.4		0.035					
2012	23-Oct-12	1	249.7		0.034					
2012	23-Oct-12	2	231.9		0.034					
2012	23-Oct-12	3	210.9		0.034					
2012	23-Oct-12	4	210.8		0.034					
2012	23-Oct-12	5	235.9		0.034					
2012	23-Oct-12	6	468.8		0.034					
2012	23-Oct-12	7	685.4		0.034					
2012	23-Oct-12	8	980.5		0.035					
2012	23-Oct-12	9	1162.8		0.034					
2012	23-Oct-12	10	1264		0.035					
2012	23-Oct-12	11	1334.5		0.035					
2012	23-Oct-12	12	1156.4		0.035					
2012	23-Oct-12	13	550.9		0.034					
2012	23-Oct-12	14	587.8		0.034					
2012	23-Oct-12	15	606.4		0.035					
2012	23-Oct-12	16	675.4		0.035					
2012	23-Oct-12	17	622.9		0.035					
2012	23-Oct-12	18	590.5		0.034					
2012	23-Oct-12	19	615		0.034					
2012	23-Oct-12	20	683.8		0.035					
2012	23-Oct-12	21	455.2		0.034					
2012	23-Oct-12	22	394.2		0.035					
2012	23-Oct-12	23	333.9		0.034					



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	24-Oct-12	0	214.1		0.034					
2012	24-Oct-12	1	158.8		0.034					
2012	24-Oct-12	2	143.7		0.034					
2012	24-Oct-12	3	154.2		0.035					
2012	24-Oct-12	4	194.1		0.034					
2012	24-Oct-12	5	244.9		0.034					
2012	24-Oct-12	6	407.8		0.034					
2012	24-Oct-12	7	688		0.034					
2012	24-Oct-12	8	919.3		0.034					
2012	24-Oct-12	9	1085.1		0.034					
2012	24-Oct-12	10	1094.5		0.034					
2012	24-Oct-12	11	1024.7		0.034					
2012	24-Oct-12	12	1185		0.034					
2012	24-Oct-12	13	1240.2		0.034					
2012	24-Oct-12	14	1178.8		0.035					
2012	24-Oct-12	15	1178.3		0.035					
2012	24-Oct-12	16	1344.6		0.035					
2012	24-Oct-12	17	1512		0.035					
2012	24-Oct-12	18	1429.3		0.035					
2012	24-Oct-12	19	1251.4		0.035					
2012	24-Oct-12	20	1406		0.035					
2012	24-Oct-12	21	1227.8		0.035					
2012	24-Oct-12	22	639.1		0.035					
2012	24-Oct-12	23	305.5		0.035					
2012	25-Oct-12	0	228.6		0.035					
2012	25-Oct-12	1	175.3		0.034					
2012	25-Oct-12	2	128.3		0.035					
2012	25-Oct-12	3	106.1		0.035					
2012	25-Oct-12	4	118.2		0.035					
2012	25-Oct-12	5	178.3		0.035					
2012	25-Oct-12	6	494.9		0.035					
2012	25-Oct-12	7	720.1		0.035					
2012	25-Oct-12	8	778		0.035					
2012	25-Oct-12	9	941		0.035					
2012	25-Oct-12	10	1033.6		0.035					1.44
2012	25-Oct-12	11	1128.4		0.035				0	1.4
2012	25-Oct-12	12	1335.3		0.035				0	5.2
2012	25-Oct-12	13	1313.2		0.035				0	2.28
2012	25-Oct-12	14	1223.4		0.035				0	1.4
2012	25-Oct-12	15	1151.8		0.035				3.6	2.1
2012	25-Oct-12	16	1508.2		0.034				32	1.9
2012	25-Oct-12	17	954.3		0.035				37.1	1.6
2012	25-Oct-12	18	956.8		0.035				46	2.2
2012	25-Oct-12	19	1001.4		0.035				60.8	1.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	25-Oct-12	20	1033		0.035				56.9	1.5
2012	25-Oct-12	21	1006.7		0.035				53.4	1.8
2012	25-Oct-12	22	1090.8		0.035				51.8	10.2
2012	25-Oct-12	23	642.1		0.035				55.7	58.6
2012	26-Oct-12	0	470.9		0.035				56	104.1
2012	26-Oct-12	1	319.2		0.035				62.3	174.1
2012	26-Oct-12	2	315.5		0.035				77.8	281.9
2012	26-Oct-12	3	314		0.035				91.4	395.8
2012	26-Oct-12	4	347.2		0.035				114.1	451.5
2012	26-Oct-12	5	416.8		0.035				151.8	437.3
2012	26-Oct-12	6	623.7		0.035				161.3	535.7
2012	26-Oct-12	7	989.1		0.035				225.4	490.7
2012	26-Oct-12	8	1718.6		0.035				296.5	465.5
2012	26-Oct-12	9	1186.5		0.035				361.7	402.7
2012	26-Oct-12	10	1040.2		0.035				619.2	420.4
2012	26-Oct-12	11	1012.5		0.035				716.1	429.3
2012	26-Oct-12	12	971.2		0.035				768.1	441.4
2012	26-Oct-12	13	1033.1		0.035				718.1	438.4
2012	26-Oct-12	14	1009.4		0.035				567.8	401.3
2012	26-Oct-12	15	908.8		0.035				487.3	454
2012	26-Oct-12	16	901.3		0.035				493.5	452.5
2012	26-Oct-12	17	678.6		0.035				502.5	677.6
2012	26-Oct-12	18	731.8		0.003				500.2	742.5
2012	26-Oct-12	19	830.3						491.1	609.5
2012	26-Oct-12	20	804						494.6	532.8
2012	26-Oct-12	21	375.4						487.4	490.1
2012	26-Oct-12	22	249.6						484	447.5
2012	26-Oct-12	23	179.2						484.9	446.5
2012	27-Oct-12	0	290.5						520.5	496.1
2012	27-Oct-12	1	192.3						521.4	513.7
2012	27-Oct-12	2	167.7						525.4	454.7
2012	27-Oct-12	3	182.3						510.6	453.7
2012	27-Oct-12	4	176						510.7	455.9
2012	27-Oct-12	5	175.7						511.3	458.8
2012	27-Oct-12	6	178.6						531.1	585.8
2012	27-Oct-12	7	209.8						678.9	782.6
2012	27-Oct-12	8	319.2						787.4	821.3
2012	27-Oct-12	9	519.1						756.5	867
2012	27-Oct-12	10	762.7						784.3	957.6
2012	27-Oct-12	11	783.8						774	952.2
2012	27-Oct-12	12	1034.6						752.1	925.3
2012	27-Oct-12	13	987.5						746.9	911.4
2012	27-Oct-12	14	971.7						748.3	914.5
2012	27-Oct-12	15	969.5						742.1	902.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	27-Oct-12	16	1097.6						745.1	898.2
2012	27-Oct-12	17	1270						762.3	895.1
2012	27-Oct-12	18	1026.6						736.5	892.4
2012	27-Oct-12	19	1037.6						747.2	887.5
2012	27-Oct-12	20	1159.3						736.7	881.4
2012	27-Oct-12	21	769.4						693.3	843.8
2012	27-Oct-12	22	462						590.8	668.6
2012	27-Oct-12	23	300.4						508.2	476.6
2012	28-Oct-12	0	241.2						541	446.7
2012	28-Oct-12	1	389.2						529.9	444.8
2012	28-Oct-12	2	762.4						518.1	444.5
2012	28-Oct-12	3	287.1						515.2	444.5
2012	28-Oct-12	4	223.6						511.3	442.6
2012	28-Oct-12	5	231.1						510.9	445.7
2012	28-Oct-12	6	248.1						515.8	579.4
2012	28-Oct-12	7	226.4						540	824.6
2012	28-Oct-12	8	232.1						553.3	917.5
2012	28-Oct-12	9	377.1						590.5	903.7
2012	28-Oct-12	10	559.3						584.4	910
2012	28-Oct-12	11	857.3						508.3	903.9
2012	28-Oct-12	12	1023.9						508.8	856.5
2012	28-Oct-12	13	846						518.6	914.1
2012	28-Oct-12	14	896.1						613.8	921
2012	28-Oct-12	15	1139.4						648	935.5
2012	28-Oct-12	16	1487.7						632.3	867.7
2012	28-Oct-12	17	1566.9						661.1	927.7
2012	28-Oct-12	18	1463.9						795.1	859.3
2012	28-Oct-12	19	1714						808	952.3
2012	28-Oct-12	20	982.1						817.5	929.2
2012	28-Oct-12	21	730.5						809.6	940.1
2012	28-Oct-12	22	694.5						680	814.7
2012	28-Oct-12	23	508.5						540.1	586.7
2012	29-Oct-12	0	352						504.4	455.4
2012	29-Oct-12	1	285.5						480.4	574.4
2012	29-Oct-12	2	265.6						540.1	485.5
2012	29-Oct-12	3	213						529.4	471
2012	29-Oct-12	4	232.6						530.3	515.1
2012	29-Oct-12	5	195						508.9	493.9
2012	29-Oct-12	6	216.1						533.5	634.4
2012	29-Oct-12	7	834.6						619.6	838.9
2012	29-Oct-12	8	494.8						727.6	892.8
2012	29-Oct-12	9	672.5						671	918.2
2012	29-Oct-12	10	727.2						611.9	974
2012	29-Oct-12	11	830.7						592.4	825.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	29-Oct-12	12	968.1						603.8	776.7
2012	29-Oct-12	13	1015.1						525.3	686.5
2012	29-Oct-12	14	940.9						515.2	596
2012	29-Oct-12	15	1001.2						497.2	463.7
2012	29-Oct-12	16	982.2						497.5	472.1
2012	29-Oct-12	17	761.9						541.8	657.6
2012	29-Oct-12	18	930.7						689.4	855
2012	29-Oct-12	19	803.4						701.9	793.9
2012	29-Oct-12	20	720.1						701.7	821.5
2012	29-Oct-12	21	620.2						657.8	789.2
2012	29-Oct-12	22	689						582.8	478.6
2012	29-Oct-12	23	642.3						509.5	426.4
2012	30-Oct-12	0	670.4						547.4	476.1
2012	30-Oct-12	1	557.3						523.4	452.1
2012	30-Oct-12	2	375.1						508.6	448.3
2012	30-Oct-12	3	339.9						510	516
2012	30-Oct-12	4	546.6						502.5	457.5
2012	30-Oct-12	5	647.3						512.3	468.5
2012	30-Oct-12	6	593.8						562.2	577.8
2012	30-Oct-12	7	757.9						656.4	736.7
2012	30-Oct-12	8	607.6						667.8	773.1
2012	30-Oct-12	9	561.7						650.4	771.3
2012	30-Oct-12	10	624.5						614	841
2012	30-Oct-12	11	577.7						512.7	769.3
2012	30-Oct-12	12	683						518.8	643.3
2012	30-Oct-12	13	662.3						516.3	492.2
2012	30-Oct-12	14	700.8						505.4	455.8
2012	30-Oct-12	15	618.8						505.9	460
2012	30-Oct-12	16	614.5						510.6	471.1
2012	30-Oct-12	17	612.4						557.7	557.4
2012	30-Oct-12	18	551.8						607.5	643.2
2012	30-Oct-12	19	334.5						528.6	645
2012	30-Oct-12	20	299.3						510.9	522.4
2012	30-Oct-12	21	287.5						588.6	469.3
2012	30-Oct-12	22	310.2						514.6	468.6
2012	30-Oct-12	23	533.2						499.9	481.5
2012	31-Oct-12	0	715.5						498.9	460.5
2012	31-Oct-12	1	629.3						531.1	456.6
2012	31-Oct-12	2	377.9						519.3	458.6
2012	31-Oct-12	3	319.4						522	461.2
2012	31-Oct-12	4	443.8						521.4	464.2
2012	31-Oct-12	5	565.9						519.9	461.7
2012	31-Oct-12	6	697.7						519.3	460.3
2012	31-Oct-12	7	677.9						523.7	505.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	31-Oct-12	8	634.3						582.3	698.2
2012	31-Oct-12	9	626.1						652.6	813.9
2012	31-Oct-12	10	636						716.5	869.3
2012	31-Oct-12	11	644.1						636.6	800.3
2012	31-Oct-12	12	686.9						570.5	688.1
2012	31-Oct-12	13	646.9						491.7	486.4
2012	31-Oct-12	14	467.7						478.6	463.7
2012	31-Oct-12	15	471.6						491.1	459.1
2012	31-Oct-12	16	398.4						596.5	460.6
2012	31-Oct-12	17	533.7						510.9	465.7
2012	31-Oct-12	18	660						602.1	464.7
2012	31-Oct-12	19	698.6						649.3	555.2
2012	31-Oct-12	20	743.2						604.4	593.8
2012	31-Oct-12	21	563						509.6	477.7
2012	31-Oct-12	22	377.4						476.5	474.2
2012	31-Oct-12	23	263.5						479.3	465.2
2012	1-Nov-12	0	165.7						475.5	461
2012	1-Nov-12	1	132.3						477.1	463.6
2012	1-Nov-12	2	129.7						488.3	463.6
2012	1-Nov-12	3	195						486.5	464.5
2012	1-Nov-12	4	337.7						483.2	464.1
2012	1-Nov-12	5	632.9						503.5	463.4
2012	1-Nov-12	6	691.7						582.1	466.5
2012	1-Nov-12	7	703.6						534.7	469
2012	1-Nov-12	8	672.2						532.1	539.4
2012	1-Nov-12	9	442.8						535.2	538.6
2012	1-Nov-12	10	446.5						537.3	554.4
2012	1-Nov-12	11	484.7						547.9	552.7
2012	1-Nov-12	12	531.4						553.5	567.2
2012	1-Nov-12	13	463.3						554.2	558
2012	1-Nov-12	14	370						550.4	552.8
2012	1-Nov-12	15	317.8						545	546.3
2012	1-Nov-12	16	292.8						538	541.1
2012	1-Nov-12	17	321.3						548.5	606.8
2012	1-Nov-12	18	406.3						573.6	650.6
2012	1-Nov-12	19	348.9						634.4	684.6
2012	1-Nov-12	20	370.6						681.3	802.8
2012	1-Nov-12	21	332.9						580.9	517.4
2012	1-Nov-12	22	248.4						534.6	516.7
2012	1-Nov-12	23	179.1						533	519.4
2012	2-Nov-12	0	114.5						541.6	519.4
2012	2-Nov-12	1	64.7						538.8	520.6
2012	2-Nov-12	2	59.6						530.3	460.4
2012	2-Nov-12	3	50.5						539.3	510

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	2-Nov-12	4	94.9						545	535.1
2012	2-Nov-12	5	234.9						552.5	536.9
2012	2-Nov-12	6	348.8						544.4	542.2
2012	2-Nov-12	7	261.9						548.1	557.1
2012	2-Nov-12	8	139.9						640.2	565.8
2012	2-Nov-12	9	116.4						753.8	573.4
2012	2-Nov-12	10	128.9						837.1	568.9
2012	2-Nov-12	11	144.4						818.4	579.6
2012	2-Nov-12	12	172.9						801.2	577.4
2012	2-Nov-12	13	171.7						779.4	579.1
2012	2-Nov-12	14	174.6						694.2	572.9
2012	2-Nov-12	15	163.8						564.7	580.4
2012	2-Nov-12	16	175.9						544.8	527.9
2012	2-Nov-12	17	170.9						529	553.3
2012	2-Nov-12	18	182.3						477.4	440
2012	2-Nov-12	19	170.6						498.5	549.5
2012	2-Nov-12	20	171.3						508.7	532.7
2012	2-Nov-12	21	161.7						510.7	464.8
2012	2-Nov-12	22	159.9						509.6	455.2
2012	2-Nov-12	23	134.6						505.8	446.1
2012	3-Nov-12	0	159.3						495.6	438
2012	3-Nov-12	1	154.2						488.9	433
2012	3-Nov-12	2	115.3						482.2	432.1
2012	3-Nov-12	3	97						476.6	426.2
2012	3-Nov-12	4	125.5						478.2	433.9
2012	3-Nov-12	5	109.5						488.4	441.4
2012	3-Nov-12	6	159.6						517.2	443.4
2012	3-Nov-12	7	187.5						559.8	446.1
2012	3-Nov-12	8	184.5						578.1	452.9
2012	3-Nov-12	9	165.1						557.3	461.7
2012	3-Nov-12	10	211.1						518.2	457
2012	3-Nov-12	11	208.3						507.6	456.7
2012	3-Nov-12	12	236.3						511.8	553.9
2012	3-Nov-12	13	228.2						518.7	586.4
2012	3-Nov-12	14	202.8						515.3	590.4
2012	3-Nov-12	15	194.5						518.4	584.7
2012	3-Nov-12	16	245.8						564.1	593
2012	3-Nov-12	17	297.5						541.4	726.9
2012	3-Nov-12	18	344.6						551.4	741.7
2012	3-Nov-12	19	379.5						545.8	735.6
2012	3-Nov-12	20	439.9						531.8	647.5
2012	3-Nov-12	21	404.2						535.9	512.2
2012	3-Nov-12	22	294.6						539.7	505.5
2012	3-Nov-12	23	211.5						532.2	486.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	4-Nov-12	0	266.9						507.7	477.7
2012	4-Nov-12	1	284.9						501.7	470.1
2012	4-Nov-12	2	183.8						505.5	467.6
2012	4-Nov-12	3	153.6						505.8	454.6
2012	4-Nov-12	4	279.5						501.7	454.3
2012	4-Nov-12	5	594.9						510.7	449.7
2012	4-Nov-12	6	1185						507.5	480.9
2012	4-Nov-12	7	1454.7						510.7	445.6
2012	4-Nov-12	8	1432.6						508.5	444.2
2012	4-Nov-12	9	1472						518.6	438.6
2012	4-Nov-12	10	1040.8						516.7	441.7
2012	4-Nov-12	11	766.4						514	445.1
2012	4-Nov-12	12	722						511.4	434.4
2012	4-Nov-12	13	586.6						502.8	437.1
2012	4-Nov-12	14	510.6						511.4	443
2012	4-Nov-12	15	507.7						528.7	501.5
2012	4-Nov-12	16	715.3						513.8	500.9
2012	4-Nov-12	17	766.4						539.8	601.9
2012	4-Nov-12	18	367.5						559.2	684.5
2012	4-Nov-12	19	464.5						514.3	618.6
2012	4-Nov-12	20	558						543.4	708.1
2012	4-Nov-12	21	513.6						538.5	639.1
2012	4-Nov-12	22	473.4						494.3	503.6
2012	4-Nov-12	23	455.9						496.4	519.4
2012	5-Nov-12	0	365.2						546	523.1
2012	5-Nov-12	1	283.3						519.9	520.9
2012	5-Nov-12	2	276.1						515.1	520.2
2012	5-Nov-12	3	432.9						512.2	515.3
2012	5-Nov-12	4	478.6						511.8	518
2012	5-Nov-12	5	706.3						499.6	513.4
2012	5-Nov-12	6	910.6						522.6	537.7
2012	5-Nov-12	7	979.1						537.2	597.4
2012	5-Nov-12	8	643.1						495.1	454.7
2012	5-Nov-12	9	656.5						508	458.2
2012	5-Nov-12	10	698.1						513.1	453.7
2012	5-Nov-12	11	627.8						565.4	456.6
2012	5-Nov-12	12	677.7						562.5	456.1
2012	5-Nov-12	13	694.4						562.2	454.5
2012	5-Nov-12	14	654.2						524.8	452.7
2012	5-Nov-12	15	622.9						519.3	449.5
2012	5-Nov-12	16	647.6						531.2	496.2
2012	5-Nov-12	17	686.2						575.5	637.4
2012	5-Nov-12	18	723.7						608.6	658.1
2012	5-Nov-12	19	773.4						553.5	646.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	5-Nov-12	20	840.7						503.3	649.7
2012	5-Nov-12	21	881.6						486.9	623.3
2012	5-Nov-12	22	809.8						524.7	469.6
2012	5-Nov-12	23	705.6						520.2	436.3
2012	6-Nov-12	0	535						530.8	435.8
2012	6-Nov-12	1	393.8						500.9	430
2012	6-Nov-12	2	562.1						505.3	462
2012	6-Nov-12	3	621.5						507.3	437.6
2012	6-Nov-12	4	732.2						508.2	440.3
2012	6-Nov-12	5	695.6						590.7	441.1
2012	6-Nov-12	6	662.2						604.3	442.3
2012	6-Nov-12	7	663						581.3	655.6
2012	6-Nov-12	8	742.4						574.6	661.5
2012	6-Nov-12	9	722						620.2	683.6
2012	6-Nov-12	10	658.3						590.2	665.5
2012	6-Nov-12	11	632.5						581	687.9
2012	6-Nov-12	12	724.3						501.4	613.2
2012	6-Nov-12	13	594.7						499.4	486.4
2012	6-Nov-12	14	553.6						504.6	443.9
2012	6-Nov-12	15	588.3						505.1	434.3
2012	6-Nov-12	16	802.6						514	473
2012	6-Nov-12	17	743.4						502.6	438.3
2012	6-Nov-12	18	714.6						515.5	438.2
2012	6-Nov-12	19	636.4						561.3	443.8
2012	6-Nov-12	20	495.3						574.2	461.8
2012	6-Nov-12	21	379.9						525.6	439.6
2012	6-Nov-12	22	390.7						530.8	436.5
2012	6-Nov-12	23	400.6						553.2	439.8
2012	7-Nov-12	0	344.7						554	439.1
2012	7-Nov-12	1	317.4						555.1	427.9
2012	7-Nov-12	2	378.2						539.3	444
2012	7-Nov-12	3	317.9						532.9	443.5
2012	7-Nov-12	4	378.2						532.5	435.6
2012	7-Nov-12	5	470.7						528.9	438.5
2012	7-Nov-12	6	615.9						529.3	419.3
2012	7-Nov-12	7	959						520.5	443.6
2012	7-Nov-12	8	1388.6						522.1	442.7
2012	7-Nov-12	9	580.8						521.3	441.8
2012	7-Nov-12	10	581.8						521.9	438.5
2012	7-Nov-12	11	579.9						525.8	433.8
2012	7-Nov-12	12	617.6						559.8	431.4
2012	7-Nov-12	13	578.3						550.9	475.2
2012	7-Nov-12	14	374.4						547.1	467.3
2012	7-Nov-12	15	169.6						544.4	465.4



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	7-Nov-12	16	189.4		0.053				546.3	467.2
2012	7-Nov-12	17	162.1		0.065				635.9	587.5
2012	7-Nov-12	18	145.2		0.068				609.5	601.2
2012	7-Nov-12	19	135.4		0.085				569.4	456.5
2012	7-Nov-12	20	111.4		0.086				555.9	459.5
2012	7-Nov-12	21	79.9		0.071				549.8	458.4
2012	7-Nov-12	22	67.9		0.05				569.7	453.2
2012	7-Nov-12	23	63.9		0.05				569.9	452.1
2012	8-Nov-12	0	93.1		0.05				557.7	450.9
2012	8-Nov-12	1	70.3		0.05				552.6	451.2
2012	8-Nov-12	2	61.7		0.05				547.6	451.8
2012	8-Nov-12	3	60		0.05				562.8	458.7
2012	8-Nov-12	4	79.4		0.05				567.4	447.6
2012	8-Nov-12	5	99.6		0.05				561.6	453.6
2012	8-Nov-12	6	142.4		0.05				553.9	451.1
2012	8-Nov-12	7	206.1		0.05				539.9	446.6
2012	8-Nov-12	8	236.3		0.05				548.8	444.7
2012	8-Nov-12	9	238.4		0.05				545.4	442.7
2012	8-Nov-12	10	265.3		0.05				545.2	444.7
2012	8-Nov-12	11	218.4		0.05				554	449.3
2012	8-Nov-12	12	216.7		0.05				557	455.4
2012	8-Nov-12	13	213.9		0.05				558.3	458.9
2012	8-Nov-12	14	160.6		0.05				556.8	455.7
2012	8-Nov-12	15	153.8		0.05				550.4	453
2012	8-Nov-12	16	77		0.05				557.4	458.3
2012	8-Nov-12	17	96.3		0.05				575.5	452.4
2012	8-Nov-12	18	138.9		0.05				562.1	440.1
2012	8-Nov-12	19	135.5		0.05				556.7	427.3
2012	8-Nov-12	20	143.6		0.05				538.2	428.6
2012	8-Nov-12	21	140.9		0.05				542.7	428.8
2012	8-Nov-12	22	117.4		0.05				542.7	427
2012	8-Nov-12	23	98.9		0.05				552.6	430.3
2012	9-Nov-12	0	76.6		0.05				554.3	430.3
2012	9-Nov-12	1	64.2		0.05				566.9	433.6
2012	9-Nov-12	2	61.5		0.05				559.2	437.3
2012	9-Nov-12	3	67.2		0.05				561.3	440.5
2012	9-Nov-12	4	72		0.042				564	437.1
2012	9-Nov-12	5	93.3		0.034				569.7	434.6
2012	9-Nov-12	6	139.6		0.034				552.4	456
2012	9-Nov-12	7	168.8		0.034				547.5	512.8
2012	9-Nov-12	8	225.4		0.048				548.8	502.1
2012	9-Nov-12	9	235.6		0.05				541.4	494.6
2012	9-Nov-12	10	235.9		0.05				535.3	493.8
2012	9-Nov-12	11	250.3		0.05				546.1	534.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	9-Nov-12	12	371.6		0.05				542.5	488.6
2012	9-Nov-12	13	450		0.051				537.9	509
2012	9-Nov-12	14	461.4		0.051				549.2	536.8
2012	9-Nov-12	15	411.2		0.051				565.1	518.9
2012	9-Nov-12	16	542.4		0.051				577.7	585.5
2012	9-Nov-12	17	684.5		0.051				708	764.9
2012	9-Nov-12	18	776.3		0.043				827.1	903
2012	9-Nov-12	19	714.1		0.035				809.1	875.2
2012	9-Nov-12	20	702.5		0.041				675.6	721.5
2012	9-Nov-12	21	378.4		0.051				569.5	642
2012	9-Nov-12	22	476.5		0.051				551	628.9
2012	9-Nov-12	23	520.6		0.057				551.8	623.1
2012	10-Nov-12	0	538.6		0.065				567.6	625.9
2012	10-Nov-12	1	583.8		0.065				577	632.9
2012	10-Nov-12	2	542.5		0.064				579.1	635.6
2012	10-Nov-12	3	387.2		0.051				571.1	635.6
2012	10-Nov-12	4	403.9		0.051				576.5	633
2012	10-Nov-12	5	603.5		0.051				577.2	629.3
2012	10-Nov-12	6	714.6		0.099				565.5	619.7
2012	10-Nov-12	7	648.9		0.081		75.115		549.3	460.2
2012	10-Nov-12	8	636.8		0.079		249		554.5	454.7
2012	10-Nov-12	9	698.5		0.079		342.7		554.4	456.2
2012	10-Nov-12	10	619.5		0.079		345.2		553.2	455.6
2012	10-Nov-12	11	673.9		0.104		295.2		548.3	455.8
2012	10-Nov-12	12	875.5		0.078		253.8		547.7	456.1
2012	10-Nov-12	13	849.6		0.078		168.4		582.1	461.1
2012	10-Nov-12	14	690.3		0.078		288.2		607.5	479.1
2012	10-Nov-12	15	570.4		0.066		296.1		621.6	477.7
2012	10-Nov-12	16	799.6		0.066		147.87		598	481.6
2012	10-Nov-12	17	783.4		0.066				661.1	563.9
2012	10-Nov-12	18	715.1		0.066				686.8	686.7
2012	10-Nov-12	19	703.3		0.066				545.2	462.1
2012	10-Nov-12	20	782.5		0.044				513.3	428.8
2012	10-Nov-12	21	645.1		0.036				546.5	431.1
2012	10-Nov-12	22	541.3		0.036				548	431.1
2012	10-Nov-12	23	514		0.036				561.7	414.2
2012	11-Nov-12	0	338.1		0.036				567.8	448.4
2012	11-Nov-12	1	226.7		0.047				560.2	445.4
2012	11-Nov-12	2	127.6		0.051				543.1	441.3
2012	11-Nov-12	3	105.9		0.051				563.7	450.4
2012	11-Nov-12	4	98.5		0.051				546.6	445.2
2012	11-Nov-12	5	90.2		0.051				515.4	405
2012	11-Nov-12	6	106.3		0.051				485.1	383.3
2012	11-Nov-12	7	131.8		0.051				514.6	513.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	11-Nov-12	8	142.6		0.051				500.3	411.2
2012	11-Nov-12	9	134		0.051				515.2	428.1
2012	11-Nov-12	10	131.6		0.052				514.5	430
2012	11-Nov-12	11	158.6		0.052				496.5	420.7
2012	11-Nov-12	12	154.2		0.052				517.6	428.3
2012	11-Nov-12	13	158		0.052				517.5	434.4
2012	11-Nov-12	14	159		0.052				510.7	428.5
2012	11-Nov-12	15	169.2		0.052				516	423.3
2012	11-Nov-12	16	200.1		0.052				577.1	529.4
2012	11-Nov-12	17	344.3		0.052				709.4	779.3
2012	11-Nov-12	18	362.6		0.052				615.3	659.9
2012	11-Nov-12	19	336.7		0.052				665.5	687.2
2012	11-Nov-12	20	366.3		0.052				588.2	612.6
2012	11-Nov-12	21	286		0.052				509	531.9
2012	11-Nov-12	22	245.3		0.052				459.3	373.8
2012	11-Nov-12	23	188.8		0.052				447.1	394.1
2012	12-Nov-12	0	208.3		0.052				441.3	198.6
2012	12-Nov-12	1	220.8		0.052				446.5	
2012	12-Nov-12	2	155.2		0.052				445.6	
2012	12-Nov-12	3	131		0.052				458.2	
2012	12-Nov-12	4	144.5		0.052				452.6	
2012	12-Nov-12	5	170.6		0.052				442.2	
2012	12-Nov-12	6	161.2		0.052				453	
2012	12-Nov-12	7	224.8		0.052				564.2	
2012	12-Nov-12	8	459		0.051				609.4	
2012	12-Nov-12	9	572.5		0.052				508.9	
2012	12-Nov-12	10	530.9		0.052				494.2	
2012	12-Nov-12	11	612.5		0.056				495.3	
2012	12-Nov-12	12	511.1		0.086				500.9	
2012	12-Nov-12	13	379.4		0.073				463.5	
2012	12-Nov-12	14	290.3		0.066		0		457.8	
2012	12-Nov-12	15	199.8		0.066		0		471.6	
2012	12-Nov-12	16	189.5		0.066		89.2		478.1	
2012	12-Nov-12	17	311		0.066		275.5		492.7	
2012	12-Nov-12	18	522.3		0.066		333.7		482.8	
2012	12-Nov-12	19	968.5		0.066		344.2		460.1	
2012	12-Nov-12	20	1055.5		0.066		352.4		467.6	
2012	12-Nov-12	21	1041.9		0.066		350.1		463	
2012	12-Nov-12	22	679.9		0.066		379.6		461.1	
2012	12-Nov-12	23	408.8		0.066		819.6		458.9	
2012	13-Nov-12	0	272.5		0.057		1234.2		456.4	
2012	13-Nov-12	1	148.5		0.066				458	
2012	13-Nov-12	2	89.6		0.066				452.6	
2012	13-Nov-12	3	88.8		0.066				442.3	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	13-Nov-12	4	105.2		0.066				433.6	
2012	13-Nov-12	5	97.2		0.066				474.5	
2012	13-Nov-12	6	126.3		0.067				480.7	
2012	13-Nov-12	7	270.7		0.067				545.4	
2012	13-Nov-12	8	397.1		0.072				448.2	
2012	13-Nov-12	9	412.7		0.077				448.7	
2012	13-Nov-12	10	449.7		0.073				461.3	
2012	13-Nov-12	11	667.7		0.08				465.3	
2012	13-Nov-12	12	998.9		0.087				460.5	
2012	13-Nov-12	13	1097.3		0.11				456.8	
2012	13-Nov-12	14	802.4		0.234				466.2	
2012	13-Nov-12	15	597.2		0.242		0		471.7	
2012	13-Nov-12	16	757.6		0.261		0		477	
2012	13-Nov-12	17	1008		0.352		124.2		490	
2012	13-Nov-12	18	890.9		0.58		274.1		465.7	
2012	13-Nov-12	19	785.3		0.672		346.1		478.8	
2012	13-Nov-12	20	862.9		0.559		300.839		487.4	
2012	13-Nov-12	21	853.5		0.383				485.2	
2012	13-Nov-12	22	799.7		0.266				481.5	
2012	13-Nov-12	23	707.3		0.264				477.1	
2012	14-Nov-12	0	499.3		0.264				481.4	
2012	14-Nov-12	1	289.3		0.264		0		498.3	
2012	14-Nov-12	2	169.5		0.263		94.5		501	
2012	14-Nov-12	3	167.5		0.263		342.1		502.8	
2012	14-Nov-12	4	263.8		0.263		381.1		493.5	
2012	14-Nov-12	5	271.3		0.288		542.7		495.6	
2012	14-Nov-12	6	382		0.423		534		495.7	
2012	14-Nov-12	7	566.2		0.563		0		482.4	
2012	14-Nov-12	8	832.4		0.833		242.3		463	
2012	14-Nov-12	9	817		0.687		368.5		459.9	
2012	14-Nov-12	10	845.6		0.65		337.5		458.8	
2012	14-Nov-12	11	893.8		0.707		389.4		458.5	
2012	14-Nov-12	12	926.8		0.702		906.8		460.4	
2012	14-Nov-12	13	1010.3		0.698		1405.6		469.7	
2012	14-Nov-12	14	1035.1		0.688		1612.1		483.2	
2012	14-Nov-12	15	979.4		0.589		1809.8		489.6	
2012	14-Nov-12	16	1028.4		0.571		2090		490	
2012	14-Nov-12	17	1004.8		0.704		2191.1		488.3	
2012	14-Nov-12	18	938.3		0.757		2225		486.3	
2012	14-Nov-12	19	832.6		0.836		2205.7		481.7	
2012	14-Nov-12	20	911.9		0.8		2241		479.9	
2012	14-Nov-12	21	944.1		0.832		2180.1		503.7	
2012	14-Nov-12	22	916.4		0.593		2169.5		504.4	
2012	14-Nov-12	23	793.4		0.101		2155		493.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	15-Nov-12	0	711.4		0.036		2138.2		486.9	
2012	15-Nov-12	1	549.9		0.036		2218.3		487.1	
2012	15-Nov-12	2	476		0.053		2312.6		484.3	
2012	15-Nov-12	3	238.2		0.069		2395.4		459.4	
2012	15-Nov-12	4	334		0.19		2421		475.8	
2012	15-Nov-12	5	497.4		0.258		2567.3		474.1	
2012	15-Nov-12	6	831.2		0.261		2660.1		479.2	
2012	15-Nov-12	7	853.4		0.399		2841.3		497.3	
2012	15-Nov-12	8	876.2		0.56		2883.6		503.3	
2012	15-Nov-12	9	881.1		0.772		2889.6		491.7	
2012	15-Nov-12	10	844.1		0.707		2884.7		483.8	
2012	15-Nov-12	11	489.9		0.644		2874.2		487.3	
2012	15-Nov-12	12	521.8		0.575		2852.4		493.8	
2012	15-Nov-12	13	606.6		0.573		2776.5		497	
2012	15-Nov-12	14	799.4		0.52		2784.5		486.4	
2012	15-Nov-12	15	1031.3		0.378		2848.2		480.8	
2012	15-Nov-12	16	565.1		0.264		2758.6		490.6	
2012	15-Nov-12	17	505.9		0.323		2823.3		491.5	
2012	15-Nov-12	18	770.9		0.559		2935.5		480.4	
2012	15-Nov-12	19	1055.3		0.636		2943.5		548.5	
2012	15-Nov-12	20	1172.8		0.576		2950.1		556.9	
2012	15-Nov-12	21	1212.7		0.377		2955.8		545.2	
2012	15-Nov-12	22	1147.1				2902.2		532.3	
2012	15-Nov-12	23	1002.8				2909.5		492	
2012	16-Nov-12	0	946.3				2920		490.8	
2012	16-Nov-12	1	852.7				2922.4		492.2	
2012	16-Nov-12	2	813.7				2897.5		486	
2012	16-Nov-12	3	785.3				2908.8		484.9	
2012	16-Nov-12	4	833.6				2926.3		490.8	
2012	16-Nov-12	5	806.7				2909.6		495.2	
2012	16-Nov-12	6	968.2				2982.8		492.2	
2012	16-Nov-12	7	961.8				2934.7		478.4	
2012	16-Nov-12	8	1085.4				2963.5		477.9	
2012	16-Nov-12	9	1102.7				2945.9		471.6	
2012	16-Nov-12	10	1008.8				2863.2		469.1	
2012	16-Nov-12	11	837.1				2680.1		478.2	
2012	16-Nov-12	12	786.6				2516.8		473.5	
2012	16-Nov-12	13	750.1				2532.8		468.8	
2012	16-Nov-12	14	1050.6				2698.1		466.1	
2012	16-Nov-12	15	1019.3				2498.2		464.5	
2012	16-Nov-12	16	770.4				2520.7		463.8	
2012	16-Nov-12	17	709.1				2728.6		493.3	
2012	16-Nov-12	18	1228.2				2817.8		492.4	
2012	16-Nov-12	19	1463.2				2845.3		502.6	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	16-Nov-12	20	1094.7				2857.5		480	
2012	16-Nov-12	21	614.1				2844.1		477.6	
2012	16-Nov-12	22	603.7				2780.8		477.2	
2012	16-Nov-12	23	979.1				2558.9		481.6	
2012	17-Nov-12	0	1224.7				2401.6		480.2	
2012	17-Nov-12	1	979				2440.8		478.3	
2012	17-Nov-12	2	555.7				2227.1		476.7	
2012	17-Nov-12	3	520.8				2229		474.8	
2012	17-Nov-12	4	768.1				2445.5		473.7	
2012	17-Nov-12	5	820.9				2486.2		469.1	
2012	17-Nov-12	6	965.8		0.013		2655.3		469.3	
2012	17-Nov-12	7	940		0.04		2653.4		468.6	
2012	17-Nov-12	8	877		0.052		2812.4		474.5	
2012	17-Nov-12	9	761.4		0.052		2596.6		472.1	
2012	17-Nov-12	10	614.6		0.064		2556.4		470.7	
2012	17-Nov-12	11	619.9		0.066		2503.4		471.2	
2012	17-Nov-12	12	577.7		0.065		2317.4		472.7	
2012	17-Nov-12	13	498.7		0.059		2159		476.2	
2012	17-Nov-12	14	403.7		0.052		1928.2		470.3	
2012	17-Nov-12	15	340.5		0.052		1949.4		469.3	
2012	17-Nov-12	16	343.6		0.052		2148.5		465.5	
2012	17-Nov-12	17	535.2		0.052		2492.4		566.7	
2012	17-Nov-12	18	743.8		0.052		2627.8		514.8	
2012	17-Nov-12	19	1113.9		0.052		2821		496.2	
2012	17-Nov-12	20	800		0.052		2838.6		486.1	
2012	17-Nov-12	21	422.2		0.052	0	2751		505.4	
2012	17-Nov-12	22	390.3		0.052	0	2607.2		514.1	
2012	17-Nov-12	23	585.6		0.052	0	2281.9		541.4	
2012	18-Nov-12	0	738.6		0.036	0	2071.6		546.8	
2012	18-Nov-12	1	566.4		0.036	0	1778		549	
2012	18-Nov-12	2	401		0.036	0	1783		548.2	
2012	18-Nov-12	3	203.4		0.036	0	1996.8		547.9	
2012	18-Nov-12	4	206.5		0.036	0	2237.5		540.6	
2012	18-Nov-12	5	196.4		0.036	0	2424.9		515.3	
2012	18-Nov-12	6	252.8		0.046	0	2399.7		599.3	
2012	18-Nov-12	7	397.7		0.052	2.6	2373.4		511.4	
2012	18-Nov-12	8	708.2		0.052	2.2	2508.3		489.2	
2012	18-Nov-12	9	747.4		0.052	1.9	2428.1		519.6	
2012	18-Nov-12	10	576.8		0.052	1.7	2338.2		520.5	
2012	18-Nov-12	11	332.1		0.052	1.7	2284.2		490.5	
2012	18-Nov-12	12	260.7		0.039	1.6	2289.4		493.5	
2012	18-Nov-12	13	279		0.036	1.6	2228.9		499	
2012	18-Nov-12	14	231.2		0.036	2.3	2257.3		512.3	
2012	18-Nov-12	15	232.9		0.036	2.1	2223.6		510.1	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	18-Nov-12	16	275.7		0.036	2.1	2176.9		496.6	
2012	18-Nov-12	17	620.9		0.036	0.6	2546.4		516.5	
2012	18-Nov-12	18	902.6		0.036	0	2841.4		553.9	
2012	18-Nov-12	19	1387.4		0.036	0	2999.6		563.9	
2012	18-Nov-12	20	1033.9		0.036	0	3066.6		1884.1	
2012	18-Nov-12	21	708.2		0.036	0	2938.8		2729.4	
2012	18-Nov-12	22	707.7		0.044	0	2799.5		2746.7	
2012	18-Nov-12	23	694.8		0.052	0	2604.5		2746.2	
2012	19-Nov-12	0	689.1		0.052	0	2256.2		2934.9	
2012	19-Nov-12	1	435		0.052	0	2169		3661.5	
2012	19-Nov-12	2	320.1		0.046	0	2100.7		3651.1	
2012	19-Nov-12	3	292.6		0.036	0	2115.3		3659.9	
2012	19-Nov-12	4	242.3		0.036	0	1929.7		3673.5	
2012	19-Nov-12	5	274		0.036	154.1	2122.9		3192.6	
2012	19-Nov-12	6	317.1		0.036	745.3	2333.8		3210.6	
2012	19-Nov-12	7	465.4		0.036	1498.2	2767.6		3077.7	
2012	19-Nov-12	8	857.6		0.036	1696.3	2990.8		3196.7	
2012	19-Nov-12	9	1107		0.036	1876.5	2975.8		3231	
2012	19-Nov-12	10	1518.4		0.025	1971.4	3107.6		3271.2	
2012	19-Nov-12	11	1632.1			2165.6	3108.3		3214.7	
2012	19-Nov-12	12	1839.5			2239.9	3102.6		3195.1	
2012	19-Nov-12	13	1043			2254.8	2954.3		3295.9	
2012	19-Nov-12	14	939			2297.4	2771.3		3359.8	
2012	19-Nov-12	15	950.1			2315	2706.5		3360.9	
2012	19-Nov-12	16	805.4			2311.2	2645.8		3354.9	
2012	19-Nov-12	17	863.6			2343.1	2902.6		3542.6	
2012	19-Nov-12	18	915.7			2232	3081.2		3600.9	
2012	19-Nov-12	19	940.8			913.2	3095.8		3276.5	
2012	19-Nov-12	20	1028			47.6	3057.1		3273.3	
2012	19-Nov-12	21	993.6			0	2957.6		3228.4	
2012	19-Nov-12	22	685			0	2659.4		3237.5	
2012	19-Nov-12	23	474.4			0	2405.5		3243.5	
2012	20-Nov-12	0	548.7			0	1978.6		3214.1	
2012	20-Nov-12	1	455.9			0	1501.9		3225.6	
2012	20-Nov-12	2	337.1			0	195.48		3219.8	
2012	20-Nov-12	3	328			0			3254.3	
2012	20-Nov-12	4	359.9			0			3173.1	
2012	20-Nov-12	5	338.2			0			3213.4	
2012	20-Nov-12	6	552.5			0			3238.5	
2012	20-Nov-12	7	827.7			11.1			3184.8	
2012	20-Nov-12	8	1599			3.2			3203.6	
2012	20-Nov-12	9	1453.7			2.5			3293.1	
2012	20-Nov-12	10	802.6			1.5			3391.5	
2012	20-Nov-12	11	767.7			0.2			3299	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	20-Nov-12	12	979.6			0			3138.6	
2012	20-Nov-12	13	1155.9						3144.5	
2012	20-Nov-12	14	1054.7			0			3150.4	
2012	20-Nov-12	15	804.4			0			3126.7	
2012	20-Nov-12	16	1047.4			6			3149.8	
2012	20-Nov-12	17	979.8			2.4			3828.8	
2012	20-Nov-12	18	1037.6			0.9			4138.1	
2012	20-Nov-12	19	1075			0			3630.5	
2012	20-Nov-12	20	1132.1			0			3984.7	
2012	20-Nov-12	21	1200.9			0			4224.2	
2012	20-Nov-12	22	902			0			3492.8	
2012	20-Nov-12	23	572.7			0			3099.2	
2012	21-Nov-12	0	397.4			0			3073.6	
2012	21-Nov-12	1	262.5			0			3069	
2012	21-Nov-12	2	195			0			3061.2	
2012	21-Nov-12	3	204.7			0			3048.4	
2012	21-Nov-12	4	230.1			0			3046.2	
2012	21-Nov-12	5	242.7			0			3077.2	
2012	21-Nov-12	6	272.1			0			3087.1	
2012	21-Nov-12	7	279.6			16.1			3075.6	
2012	21-Nov-12	8	370.7			4.8			3119.4	
2012	21-Nov-12	9	452.2			18.6			3177.1	
2012	21-Nov-12	10	248.5			16			3142.3	
2012	21-Nov-12	11	170.9			19.7			3101.9	
2012	21-Nov-12	12	247.5			5.4			3049.2	
2012	21-Nov-12	13	253.7			14.9			3059.8	
2012	21-Nov-12	14	342.8			9.8			3077.4	
2012	21-Nov-12	15	505.1			6.5			3093.2	
2012	21-Nov-12	16	688.8			0			3065.2	
2012	21-Nov-12	17	997.8			1.1			3362.8	
2012	21-Nov-12	18	1056.2			2.2			4089.4	
2012	21-Nov-12	19	1045.7			5.5			4210.7	
2012	21-Nov-12	20	1007.2			5.1			4123.9	
2012	21-Nov-12	21	928.3			3.7			3158.8	
2012	21-Nov-12	22	819.2			1.5			2973	
2012	21-Nov-12	23	662.7			1.6			2965.3	
2012	22-Nov-12	0	523.5			1.3			3033.3	
2012	22-Nov-12	1	446.2			2.2			3040.1	
2012	22-Nov-12	2	311.8			0.6			2998.5	
2012	22-Nov-12	3	215.5			0			2983	
2012	22-Nov-12	4	188.1			0			3468.5	
2012	22-Nov-12	5	141.5			0.1			4228.9	
2012	22-Nov-12	6	100.7			0			4668.7	
2012	22-Nov-12	7	123.6			10.5			4077.5	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	22-Nov-12	8	202.8			5.4			3392.2	
2012	22-Nov-12	9	263.9			4.1			3213.3	
2012	22-Nov-12	10	278			4.4			3191.8	
2012	22-Nov-12	11	393.5			2.9			3167.3	
2012	22-Nov-12	12	484.1			0			3167.1	
2012	22-Nov-12	13	525.6			0.1			3216.4	
2012	22-Nov-12	14	488.3			0			3135.6	
2012	22-Nov-12	15	408.5			0			3096.1	
2012	22-Nov-12	16	264.1			0			3098.5	
2012	22-Nov-12	17	248.3			0			3190.2	
2012	22-Nov-12	18	254.4			0			3055.9	
2012	22-Nov-12	19	308.2			0			2940.8	
2012	22-Nov-12	20	358.1			0			3087.4	
2012	22-Nov-12	21	379.6			0			2950.6	
2012	22-Nov-12	22	353.2			0			2915.4	
2012	22-Nov-12	23	360.2			0			2876.1	
2012	23-Nov-12	0	363.6			0			2965	
2012	23-Nov-12	1	327.9			0			2980	
2012	23-Nov-12	2	307.2			0			3012.1	
2012	23-Nov-12	3	308.4			0			3039.4	
2012	23-Nov-12	4	276.4			0			2999.3	
2012	23-Nov-12	5	258.4			0			3047.4	
2012	23-Nov-12	6	276.1			0			3018.4	
2012	23-Nov-12	7	206.5			13.6			2970.8	
2012	23-Nov-12	8	219.6			6.5			3032.5	
2012	23-Nov-12	9	287.9			7.4			3240.7	
2012	23-Nov-12	10	185.5			5.1			3269.9	
2012	23-Nov-12	11	202.4			2.9			3401.6	
2012	23-Nov-12	12	277.7			0			3819.6	
2012	23-Nov-12	13	327.8			0			4020.4	
2012	23-Nov-12	14	305.8			0			4185.8	
2012	23-Nov-12	15	306.4			0			3917.6	
2012	23-Nov-12	16	329.7			0			4050.8	
2012	23-Nov-12	17	470.8			0			3981.3	
2012	23-Nov-12	18	538.1			0			3494.4	
2012	23-Nov-12	19	718.9			0			3278.6	
2012	23-Nov-12	20	996.7			0			3132.5	
2012	23-Nov-12	21	941.8			0			3144.2	
2012	23-Nov-12	22	384.1			0			3097.3	
2012	23-Nov-12	23	230.9			0			3097.6	
2012	24-Nov-12	0	292.2			0			3098.9	
2012	24-Nov-12	1	257.6			0			3054.8	
2012	24-Nov-12	2	239			0			3083.1	
2012	24-Nov-12	3	245.7			0			3106	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	24-Nov-12	4	243.7			0			3059.5	
2012	24-Nov-12	5	242.8			0			3154	
2012	24-Nov-12	6	217.3			0			3111.2	
2012	24-Nov-12	7	173.5			11.2			3101	
2012	24-Nov-12	8	162.7			3.8			3151.1	
2012	24-Nov-12	9	288.2			2.4			3036.5	
2012	24-Nov-12	10	479.6			1.4			3229.6	
2012	24-Nov-12	11	982.8			0			3254.2	
2012	24-Nov-12	12	1723.9			0			3241	
2012	24-Nov-12	13	789.3			0			3257.9	
2012	24-Nov-12	14	448.8			0			3270.3	
2012	24-Nov-12	15	292.3			0			3251.4	
2012	24-Nov-12	16	304.1			0			3224.3	
2012	24-Nov-12	17	624.5			0			3263.3	
2012	24-Nov-12	18	848.5			0			3252.7	
2012	24-Nov-12	19	909.5			0			3253	
2012	24-Nov-12	20	957.9			0			2815.8	
2012	24-Nov-12	21	900.2			0			2489.2	
2012	24-Nov-12	22	821.7			0			2504.8	
2012	24-Nov-12	23	684.4			0			2277.4	
2012	25-Nov-12	0	618.6			0			1016.1	
2012	25-Nov-12	1	498.7			0			1580.7	
2012	25-Nov-12	2	703.6			0			3298.4	
2012	25-Nov-12	3	805.7			0			3139.7	
2012	25-Nov-12	4	622.9			0			3048.7	
2012	25-Nov-12	5	574.6			0			3000.9	
2012	25-Nov-12	6	523.3			0			2930.8	
2012	25-Nov-12	7	464.1			9.996			1931.6	
2012	25-Nov-12	8	617.5			4.2			1787.2	
2012	25-Nov-12	9	625.2			2.7			1738.4	
2012	25-Nov-12	10	610.7			1.3			1749.5	
2012	25-Nov-12	11	936.6			0.4			1934.6	
2012	25-Nov-12	12	1289.8			0			1623.9	
2012	25-Nov-12	13	811.6			0	0		1582	
2012	25-Nov-12	14	566			0	0		1595.5	
2012	25-Nov-12	15	510.1			0	0		1342.8	
2012	25-Nov-12	16	707			0	0		634.8	
2012	25-Nov-12	17	993.6			0	115.1		728.3	
2012	25-Nov-12	18	1110.3			0	352.7		740.7	
2012	25-Nov-12	19	1155.6			0	363.3		623.2	
2012	25-Nov-12	20	1185.6			0	468.6		615.1	
2012	25-Nov-12	21	1182.6			0	1046.3		575.2	
2012	25-Nov-12	22	970			0	1535.3		499.2	
2012	25-Nov-12	23	896.4			0	1765.2		507.2	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	26-Nov-12	0	964.1			0	2064.8		501.7	
2012	26-Nov-12	1	743.7			19.8	2155.5		497.7	
2012	26-Nov-12	2	447.6			318.8	1917.3		495.1	
2012	26-Nov-12	3	329.2			382.9	1958.9		501	
2012	26-Nov-12	4	238			388.6	1986.5		496.3	
2012	26-Nov-12	5	232.4			402.8	1933.2		579.3	
2012	26-Nov-12	6	313			426	2293.4		543.4	
2012	26-Nov-12	7	364.3			416.6	2594.8		563.7	
2012	26-Nov-12	8	511.9			432.4	2671.7		541.7	
2012	26-Nov-12	9	756.4			423.2	2665.7		578.7	
2012	26-Nov-12	10	391.5			436.9	2596		578.9	
2012	26-Nov-12	11	388.6			437.8	2455.9		663.9	
2012	26-Nov-12	12	465.7			441.7	2398.6		658.9	
2012	26-Nov-12	13	383.4			441.6	2286.5		581.8	
2012	26-Nov-12	14	365.8			444.5	2267.4		537.2	
2012	26-Nov-12	15	259.9			442.4	2265.9		554.3	
2012	26-Nov-12	16	282.1			443.6	2469.6		541.8	
2012	26-Nov-12	17	561			788.4	2630.5		639.7	
2012	26-Nov-12	18	544.2			1266.8	2688.2		665.3	
2012	26-Nov-12	19	791.9			985.1	2691.5		638.1	
2012	26-Nov-12	20	1094			692	2687.7		671.1	
2012	26-Nov-12	21	1155.7			481.4	2541.9		651.3	
2012	26-Nov-12	22	886.7			492.6	2276.5		558.3	
2012	26-Nov-12	23	658.3			492.7	2105.4		531.6	
2012	27-Nov-12	0	437.3			490.3	1920.9		537.6	
2012	27-Nov-12	1	349.8			488.1	1890		530.6	
2012	27-Nov-12	2	291.3			484.7	1842		526.8	
2012	27-Nov-12	3	297.8			484.4	1887.8		526.9	
2012	27-Nov-12	4	272.7			479.1	1849.5		528	
2012	27-Nov-12	5	278.1			477.6	1953.6		560.1	
2012	27-Nov-12	6	323.5			718.9	2181		592.2	
2012	27-Nov-12	7	408.9			1000.8	2451.6		601.4	
2012	27-Nov-12	8	772.4			1539.6	2512.4		670.4	
2012	27-Nov-12	9	648.3			2088.8	2520.3		1064.2	
2012	27-Nov-12	10	497			2206.7	2721.9		836.6	
2012	27-Nov-12	11	599			2224.4	2783.3		544.5	
2012	27-Nov-12	12	847.6			2223.9	2767.3		545	
2012	27-Nov-12	13	864.5			2234.4	2780.1		802.8	
2012	27-Nov-12	14	851.1			2232.2	2782.5		1163.3	
2012	27-Nov-12	15	880.7			2213.4	2781.3		835.3	
2012	27-Nov-12	16	781.2			1898.2	2789		569.1	
2012	27-Nov-12	17	751.1			2158.1	2805.6		524.2	
2012	27-Nov-12	18	1225			2154.2	2811.1		514.4	
2012	27-Nov-12	19	1453.8			2094.6	2794.2		525.9	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	27-Nov-12	20	1035			1974.5	2809.6		531.2	
2012	27-Nov-12	21	594			1686.4	2767.2		522.9	
2012	27-Nov-12	22	669.5			1327.8	2606.3		522.2	
2012	27-Nov-12	23	586.8			554.8	2345.6		507.3	
2012	28-Nov-12	0	367.4			462.4	2194.5		510.1	
2012	28-Nov-12	1	491.7			456.6	2142.2		509.6	
2012	28-Nov-12	2	325.9			446.1	2088.1		502.6	
2012	28-Nov-12	3	343.9			447.5	2076.3		513.3	
2012	28-Nov-12	4	339.3			452.9	2104.7		509.3	
2012	28-Nov-12	5	366.2			453.9	2209.5		509.6	
2012	28-Nov-12	6	491			538.1	2455		530.6	
2012	28-Nov-12	7	473.3			1167.8	2501.8		566.3	
2012	28-Nov-12	8	491.3			1202.7	2502.2		547.5	
2012	28-Nov-12	9	769.9			1256.4	2513.9		529.3	
2012	28-Nov-12	10	722.2			1543.1	2592.5		524.7	
2012	28-Nov-12	11	1007.8			901.4	2455.1		805.4	
2012	28-Nov-12	12	1063.5			466.1	2410		783.5	
2012	28-Nov-12	13	1074.3			431.5	2398.5		510.3	
2012	28-Nov-12	14	723.4			429.8	2205.1		508.3	
2012	28-Nov-12	15	664			431.1	2159		502.4	
2012	28-Nov-12	16	715.2			433.4	2357.3		485.8	
2012	28-Nov-12	17	1152			834.1	2500.3		492	
2012	28-Nov-12	18	633.7			1673.4	2481.8		635.1	
2012	28-Nov-12	19	614.3			1965.7	2523		574	
2012	28-Nov-12	20	699.3			1925	2724.1		553.9	
2012	28-Nov-12	21	797.4			1715.4	2760.9		495.1	
2012	28-Nov-12	22	767.4			1521.5	2622.9		491.1	
2012	28-Nov-12	23	605.2			826.8	2393.7		642.4	
2012	29-Nov-12	0	656.5			407.1	2281.3		582	
2012	29-Nov-12	1	738.5			407.5	2239.8		505.5	
2012	29-Nov-12	2	510.7			399.1	2214.4		506.9	
2012	29-Nov-12	3	623.9			396.4	2289.7		519	
2012	29-Nov-12	4	905.8			411.5	2359.9		504.3	
2012	29-Nov-12	5	1218.1			411.9	2419.8		688.1	
2012	29-Nov-12	6	1598.9			614	2428.9		855	
2012	29-Nov-12	7	938.3			1225.1	2900.9		1056.5	
2012	29-Nov-12	8	919.3			1691.4	2992.8		909.1	
2012	29-Nov-12	9	1413.9			1732.4	2984		780.2	
2012	29-Nov-12	10	1565.3			1988	2989.1		527	
2012	29-Nov-12	11	1205.5			1665.9	2983.1		484	
2012	29-Nov-12	12	978.6			1102.2	3004.9		489.4	
2012	29-Nov-12	13	1171.2			562.7	3012.6		489.3	
2012	29-Nov-12	14	1160.2			453	2997		480	
2012	29-Nov-12	15	1050.2			444.9	2984.6		479.7	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	29-Nov-12	16	1101.4			468.8	2533.2		480.7	
2012	29-Nov-12	17	1164.7			771.3	2678.8		486.1	
2012	29-Nov-12	18	957.3			1753.8	2749		499.6	
2012	29-Nov-12	19	1073.9			1962.4	2738.2		503.6	
2012	29-Nov-12	20	1236.2			1664.9	2714.3		503.4	
2012	29-Nov-12	21	956.6			1675.2	2702.7		527.5	
2012	29-Nov-12	22	417.6			1066.7	2479.5		522.1	
2012	29-Nov-12	23	147.4			475.4	2017.8		493.7	
2012	30-Nov-12	0	51.6			445.8	1721.7		492	
2012	30-Nov-12	1	30.7			444	1850.7		487.2	
2012	30-Nov-12	2	27			430.3	2145.5		491.2	
2012	30-Nov-12	3	22.6			379.1	2095.8		496.7	
2012	30-Nov-12	4	17.4			423.6	2203.3		482.1	
2012	30-Nov-12	5	12.2			429.3	2235.7		522.3	
2012	30-Nov-12	6	57.9			528.9	2389.2		588.8	
2012	30-Nov-12	7	126.8			1135.9	2677.7		582.1	
2012	30-Nov-12	8	129.4			1279.4	2702.4		566.8	
2012	30-Nov-12	9	429.6			1280.4	2677.3		581.1	
2012	30-Nov-12	10	524.8			1167.5	2672.6		579	
2012	30-Nov-12	11	679.3			901.1	2489.9		576.8	
2012	30-Nov-12	12	749			1571.2	2160.8		520.2	
2012	30-Nov-12	13	817.5			1601.6	2046.9		466.7	
2012	30-Nov-12	14	463.9			1602.4	2016.1		484.6	
2012	30-Nov-12	15	333.8			1621.6	1855.9		526.9	
2012	30-Nov-12	16	354.1			1599.9	1805		689.7	
2012	30-Nov-12	17	429.7			1603.1	1989.4		741	
2012	30-Nov-12	18	517			1604.8	2198.7		725	
2012	30-Nov-12	19	550.4			1586.6	2225.3		720.9	
2012	30-Nov-12	20	635.3			1484.6	2237.2		809.1	
2012	30-Nov-12	21	745			1390.3	2161.7		605.5	
2012	30-Nov-12	22	453.6			915	2020.5		455.2	
2012	30-Nov-12	23	460.1			656	2004.3		496.5	
2012	1-Dec-12	0	446.9			444.8	1966.8		426	400.1
2012	1-Dec-12	1	576.5			428.4	2062.9		440	400.3
2012	1-Dec-12	2	651.6			422.4	2071.7		488.6	403.6
2012	1-Dec-12	3	558.4			400.9	1939.7		457.8	406
2012	1-Dec-12	4	475.5			395.5	1874.6		463.6	409.4
2012	1-Dec-12	5	577.7			396.1	2051		492	467.6
2012	1-Dec-12	6	469.2			398.3	1964.3		454.2	364.1
2012	1-Dec-12	7	297.9			490.8	1913.3		454.4	402.2
2012	1-Dec-12	8	345.3			1519.8	2222.2		458.5	419.5
2012	1-Dec-12	9	577.2			1666.4	2436.7		495.3	426.3
2012	1-Dec-12	10	788.9			1700.4	2534.7		529.3	547.8
2012	1-Dec-12	11	714.7			1706	2448.7		602.3	667.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	1-Dec-12	12	632.5			1706.2	2304.1		479.2	761.2
2012	1-Dec-12	13	427.8			1710.3	2002.5		474.5	784.3
2012	1-Dec-12	14	257			1599.9	1816.5		471.3	790.1
2012	1-Dec-12	15	160.5			1061.2	1796.8		461.4	783.2
2012	1-Dec-12	16	141.6			532.9	1893.8		515	783.7
2012	1-Dec-12	17	236.2			518.9	2063.5		617.4	773
2012	1-Dec-12	18	407.4			712.2	2321.3		635.1	768.1
2012	1-Dec-12	19	436			739.9	2426.4		628.3	762.6
2012	1-Dec-12	20	572.5			708.8	2530.8		662.2	726.8
2012	1-Dec-12	21	415.1			473.7	2380.2		607	576.2
2012	1-Dec-12	22	571.1			406.4	2124.1		600.5	483.3
2012	1-Dec-12	23	431.9			405.2	1815.3		634.8	398.4
2012	2-Dec-12	0	263.6			404.4	1585.6		633.4	402.7
2012	2-Dec-12	1	159.3			401.5	1535.2		696.3	400.2
2012	2-Dec-12	2	80.6			395.4	1530.5		657.9	412.6
2012	2-Dec-12	3	70.7			400.8	1527.2		667.4	412.2
2012	2-Dec-12	4	55.3			392.2	1529.4		619.9	409.4
2012	2-Dec-12	5	51.4			407.1	1532.8		617.8	490.5
2012	2-Dec-12	6	94.2			413	1519		615.9	710.1
2012	2-Dec-12	7	79.3			425.7	1521.2		627.9	809.6
2012	2-Dec-12	8	37.8			423	1572.8		608.9	816.7
2012	2-Dec-12	9	30.1			417.5	1798.4		570.3	799.2
2012	2-Dec-12	10	29.9			424.8	1700.3		487	746.6
2012	2-Dec-12	11	37.9			437.1	1562.3		446.4	684.5
2012	2-Dec-12	12	66.5			445	1532.6		450.1	787.4
2012	2-Dec-12	13	15			451.4	1542.7		453	797.7
2012	2-Dec-12	14	17.4			454.6	1532.6		447.5	804.5
2012	2-Dec-12	15	17.4			456.5	1569.8		560.5	808.5
2012	2-Dec-12	16	11.1			449.3	1595.2		682.3	794.6
2012	2-Dec-12	17	0.1			724.9	1663.3		662.3	725.2
2012	2-Dec-12	18	0.3			1170.9	1683		624.9	552.2
2012	2-Dec-12	19	0.6			1217.4	1878.8		473.1	427.3
2012	2-Dec-12	20	1.1			1375.6	2122.8		464.8	447
2012	2-Dec-12	21	1			878.6	1982.2		440.3	413.8
2012	2-Dec-12	22	0.6			476.8	1750.9		424.6	413.9
2012	2-Dec-12	23	0.3			412	1516.4		420.3	411
2012	3-Dec-12	0	1.8			412.1	1531.2		415.4	473.7
2012	3-Dec-12	1	0.9			410.9	1540.9		418.7	430.9
2012	3-Dec-12	2	0.6			407.6	1531.2		465.1	425.9
2012	3-Dec-12	3	0.7			400.8	1533.7		365	426.5
2012	3-Dec-12	4	0.6			388.2	1529.1		489.2	424.7
2012	3-Dec-12	5	0.7			403.8	1521.8		503.6	428.2
2012	3-Dec-12	6	196.6			397.5	1522.5		556.1	424.9
2012	3-Dec-12	7	571.1			408.8	1476.1		578.9	426.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	3-Dec-12	8	826.4			404.9	1515		565	461.3
2012	3-Dec-12	9	1463.6			402.8	1587		559.6	526.9
2012	3-Dec-12	10	1412			401.4	1588.2		604.2	438.5
2012	3-Dec-12	11	1466.6			401.1	1513.1		603.5	506.1
2012	3-Dec-12	12	1359.2			402.7	1540.4		542.5	554.5
2012	3-Dec-12	13	2043.9			398.6	1544.5		466.4	589.5
2012	3-Dec-12	14	938.2			400	1530.5		476.4	666.2
2012	3-Dec-12	15	512.2			403	1570.5		469.2	767
2012	3-Dec-12	16	426.8			398.3	1591.2		462.1	749.7
2012	3-Dec-12	17	415			462.9	1766.4		506.6	781.1
2012	3-Dec-12	18	294.6			492.9	1957.4		497.1	714.9
2012	3-Dec-12	19	277.1			602.9	2120.5		499.1	688.3
2012	3-Dec-12	20	237.6			769.5	2241.1		507.1	801.8
2012	3-Dec-12	21	188.6			497.9	1937.2		591.9	633.9
2012	3-Dec-12	22	170.6			394.8	1720.3		593.8	441.1
2012	3-Dec-12	23	153.6			400.3	1680		566.7	433.2
2012	4-Dec-12	0	75.6			399.7	1658.8		591	417.8
2012	4-Dec-12	1	56.3			395.8	1676.4		577.7	414.2
2012	4-Dec-12	2	81			396.1	1684.5		620.1	413.7
2012	4-Dec-12	3	65.6			395.8	1697.6		642.7	417.3
2012	4-Dec-12	4	56.8			397.5	1734.3		643.6	415.9
2012	4-Dec-12	5	73.4			392.9	1761		659.6	415
2012	4-Dec-12	6	74.5			397.7	1893.9		693.3	424.1
2012	4-Dec-12	7	67.3			397.2	1857.2		574.7	424.3
2012	4-Dec-12	8	29.7			391.3	1863.8		575.6	432.8
2012	4-Dec-12	9	20.9			388.3	1865.7		543.9	436.1
2012	4-Dec-12	10	26			384.7	1837.8		528.2	454.8
2012	4-Dec-12	11	26.1			384	1888.4		511.5	659.6
2012	4-Dec-12	12	38.1			383.9	2038.4		473.1	630.1
2012	4-Dec-12	13	66.8			380.3	2129.5		466.3	673.5
2012	4-Dec-12	14	84.5			385	1959.8		464.9	755.9
2012	4-Dec-12	15	69.2			387	1979.1		461.9	783.5
2012	4-Dec-12	16	66.3			388.1	2041		459.2	689.3
2012	4-Dec-12	17	121			646.2	2318.2		455	680
2012	4-Dec-12	18	157.9			1009.3	2676.1		455	674.5
2012	4-Dec-12	19	151.2			1004.3	2808.3		502.2	673.9
2012	4-Dec-12	20	237.8			748.2	2701.1		499.5	577.1
2012	4-Dec-12	21	250.9			420	2419.3		482.7	437.9
2012	4-Dec-12	22	129.5			373	2151.3		540.2	444.5
2012	4-Dec-12	23	101.1			373.2	1852.7		491.8	443.9
2012	5-Dec-12	0	94.3			377.8	1806.4		488.4	444.1
2012	5-Dec-12	1	90			379.6	1818.9		338.87	441.4
2012	5-Dec-12	2	81.9			377	1832.8			439.5
2012	5-Dec-12	3	65.5			389	1831.7		1.2	438.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	5-Dec-12	4	47.6			397	1836.5		29.7	431.7
2012	5-Dec-12	5	50.4			402.1	1845.2		58.2	431.6
2012	5-Dec-12	6	64			438.9	1923.5		59.5	425.6
2012	5-Dec-12	7	55			412	2140.3		66.4	447.2
2012	5-Dec-12	8	16.4			405.2	2031.8		61.6	641.7
2012	5-Dec-12	9	7.5			406.9	2042.5		80.9	578.4
2012	5-Dec-12	10	10			409.2	1842.1		108.5	672.6
2012	5-Dec-12	11	10.1			401.1	1813.4		139.1	667.4
2012	5-Dec-12	12	12.5			406.3	1781		174.4	561.6
2012	5-Dec-12	13	21.1			406.7	1756.5		221	566.3
2012	5-Dec-12	14	30			411.8	1767.9		299.2	533.8
2012	5-Dec-12	15	30.2			410.1	1774.9		310.8	515.2
2012	5-Dec-12	16	27.4			409.4	1853.9		384.9	411.4
2012	5-Dec-12	17	55			596.4	2238.2		488.7	413.2
2012	5-Dec-12	18	71.5			918.5	2638.1		480.5	404.5
2012	5-Dec-12	19	79.3			776	2625.6		487.4	417.8
2012	5-Dec-12	20	345.3			1324.5	2759.5		482.9	410.8
2012	5-Dec-12	21	463.1			1269.3	2705.5		481	416.8
2012	5-Dec-12	22	271.9			761.9	2377.2		512.2	410.1
2012	5-Dec-12	23	231.4			470	1991		526.4	411.2
2012	6-Dec-12	0	212.8			410.9	1679		527	406.5
2012	6-Dec-12	1	189.9			414.5	1636.6		494.3	422.2
2012	6-Dec-12	2	168.9			417.6	1635.1		525.7	428.6
2012	6-Dec-12	3	163.5			398.2	1629.8		541.5	424.8
2012	6-Dec-12	4	210			404.4	1627.4		526.3	428.3
2012	6-Dec-12	5	258.4			406.9	1663.5		523.3	424.7
2012	6-Dec-12	6	239.3			432.9	1883.9		558.1	424.9
2012	6-Dec-12	7	168			801.5	2414.5		602.8	420.9
2012	6-Dec-12	8	113.4			430.1	2456.9		504.5	425.9
2012	6-Dec-12	9	107.3			397.1	2460.1		491.6	420.7
2012	6-Dec-12	10	86.8			406.4	2365.6		632.8	417
2012	6-Dec-12	11	68.4			414.8	2054		647.4	444.3
2012	6-Dec-12	12	101.9			420.6	1957.4		658.5	764.4
2012	6-Dec-12	13	148.1			418.2	2084.5		618.4	781
2012	6-Dec-12	14	148.8			417.9	2063.6		538.9	772.8
2012	6-Dec-12	15	144.7			419	2074.6		462	767.8
2012	6-Dec-12	16	155.3			433.8	2225.9		470.2	764.8
2012	6-Dec-12	17	374.9			669	2419.2		462	756.8
2012	6-Dec-12	18	347.9			741.3	2644.9		459.5	748.4
2012	6-Dec-12	19	577.9			633.8	2746		458.4	761.4
2012	6-Dec-12	20	802.7			464.5	2817.6		481.1	781.3
2012	6-Dec-12	21	623.2			389	2805.2		460.1	780.7
2012	6-Dec-12	22	567.5			393.9	2442.4		456.5	767.4
2012	6-Dec-12	23	396.4			390.1	2132.4		451.9	605.9



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	7-Dec-12	0	320.1			388.7	2121.1		480.3	430.2
2012	7-Dec-12	1	327.4			387.2	2071.6		464.9	429.2
2012	7-Dec-12	2	273.6			387.3	2072.7		457.8	417.9
2012	7-Dec-12	3	238.5			387	2062.8		457.4	418.2
2012	7-Dec-12	4	254.6			387.5	2037.1		460.8	418.7
2012	7-Dec-12	5	298.5			388.1	2072.2		463.4	427.8
2012	7-Dec-12	6	291.9			392.4	2196.1		465.9	417.2
2012	7-Dec-12	7	221.7			755.6	2462		490	481.6
2012	7-Dec-12	8	71.3			909.7	2862.5		467.9	593.7
2012	7-Dec-12	9	98.1			947	2993.7		473.7	613
2012	7-Dec-12	10	184.1			952.6	3079.9		479.1	683.9
2012	7-Dec-12	11	297.1			1031	3000.5		538.4	571.9
2012	7-Dec-12	12	421.9			812.2	2669.3		563	667.5
2012	7-Dec-12	13	406.3			578.3	2469.6		596.7	634.2
2012	7-Dec-12	14	272.7			377.1	2356.1		548.6	780.7
2012	7-Dec-12	15	157.6			369.2	2350.7		568.9	664.6
2012	7-Dec-12	16	119.4			409.8	2437.8		633.3	738.3
2012	7-Dec-12	17	94.3			419.2	2417.9		524.2	701.5
2012	7-Dec-12	18	86.6			381.3	2344.7		507.6	749
2012	7-Dec-12	19	84.9			414.1	2445.7		481.1	696
2012	7-Dec-12	20	108.6			476.9	2622.5		473.5	624
2012	7-Dec-12	21	128.8			394.6	2447		468.6	600.1
2012	7-Dec-12	22	124.8			401.4	2179.1		467.1	480.8
2012	7-Dec-12	23	109.6			405.4	1884.1		466.7	468
2012	8-Dec-12	0	90.6			414.3	1803.3		463.7	440.7
2012	8-Dec-12	1	79.5			421.1	1817.8		462	438.4
2012	8-Dec-12	2	65.3			429	1816.1		465.5	435.6
2012	8-Dec-12	3	57.3			431.8	1790.9		471.7	427.3
2012	8-Dec-12	4	44.7			432.3	1779.6		493.3	424.5
2012	8-Dec-12	5	32.8			436.8	1830		495.3	505.9
2012	8-Dec-12	6	21.2			437.6	1841.7		497.2	568.2
2012	8-Dec-12	7	27.6			455.6	1874.5		605.6	504.8
2012	8-Dec-12	8	14			452.4	1884.3		510.8	426.2
2012	8-Dec-12	9	7.6			455	1852.4		541.1	421.9
2012	8-Dec-12	10	53.1			451	1836.1		578.2	419.2
2012	8-Dec-12	11	61.7			451	1825.5		515.5	419.5
2012	8-Dec-12	12	66.8			452.5	1829.3		465.8	422.9
2012	8-Dec-12	13	122.8			454.7	1817.8		468.7	427.7
2012	8-Dec-12	14	152.3			454	1793.3		466.1	431.1
2012	8-Dec-12	15	137.8			454.8	1773.7		468.2	423.6
2012	8-Dec-12	16	124.7			454.6	1828.7		461.3	442.6
2012	8-Dec-12	17	189.9			615.4	2184.2		454.5	429.9
2012	8-Dec-12	18	301.6			764.9	2467.9		454.6	451.3
2012	8-Dec-12	19	326.1			451.8	2251.5		455.7	427.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	8-Dec-12	20	272.7			437	1995.8		456.3	445.9
2012	8-Dec-12	21	223.6			436.1	1762.9		453.4	446.9
2012	8-Dec-12	22	141.1			435.2	1738.4		452	435.7
2012	8-Dec-12	23	113.3			434.2	1737.7		449.1	433.3
2012	9-Dec-12	0	119.7			437.2	1741.5		450.2	428.7
2012	9-Dec-12	1	470.9			445.7	1730.4		447.6	458.8
2012	9-Dec-12	2	218.4			459.4	1748		442.2	427.8
2012	9-Dec-12	3	188.2			456.3	1749.7		448.9	425.7
2012	9-Dec-12	4	188.3			456.1	1760.1		497.1	428.5
2012	9-Dec-12	5	201.9			451.7	1760.1		466.7	639
2012	9-Dec-12	6	180			452.2	1770.6		566.2	769.6
2012	9-Dec-12	7	128.1			453.5	1732.8		541.1	703.4
2012	9-Dec-12	8	108.8			450	1800.1		473.1	697.3
2012	9-Dec-12	9	185.6			443.3	1795.6		462.7	633.8
2012	9-Dec-12	10	207.9			440	1807.2		481.4	506.3
2012	9-Dec-12	11	202.9			434.6	1808.2		469	473.2
2012	9-Dec-12	12	216.9			431.4	1819.1		457	524.4
2012	9-Dec-12	13	156.9			433.5	1810.3		450	507.8
2012	9-Dec-12	14	114.6			434.1	1817.4		448.8	505.4
2012	9-Dec-12	15	83.5			433.7	1805.7		450	543.2
2012	9-Dec-12	16	86.4			437.8	1887.1		443.9	507
2012	9-Dec-12	17	98.5			444.8	2169.8		445.9	555.5
2012	9-Dec-12	18	145.5			431.3	2198.7		450.3	520.3
2012	9-Dec-12	19	138.6			447.3	2110.1		452.9	506
2012	9-Dec-12	20	168.8			441.3	2023.6		448.4	499.4
2012	9-Dec-12	21	200.9			440	1778.1		446.8	495.8
2012	9-Dec-12	22	179.4			440.9	1819.7		447.1	507.7
2012	9-Dec-12	23	164.2			442.3	1805.2		449.7	494.8
2012	10-Dec-12	0	204.5			442.7	1758.3		445.9	495.6
2012	10-Dec-12	1	267.9			441.1	1759.1		582.2	504.4
2012	10-Dec-12	2	229.7			440.5	1746.8		472	495.9
2012	10-Dec-12	3	211			442.5	1749.9		532.2	496.5
2012	10-Dec-12	4	222			433.2	1748.1		465.5	496.3
2012	10-Dec-12	5	268.8			422.7	1732.3		488.7	625.5
2012	10-Dec-12	6	224			416.1	1805.2		467.7	823.9
2012	10-Dec-12	7	167.9			428.2	2083.8		490.9	812.4
2012	10-Dec-12	8	91			417.6	1891.6		646.4	726.2
2012	10-Dec-12	9	122.5			412.2	1820.4		634.6	586.4
2012	10-Dec-12	10	123.9			407.6	2009.7		625.5	444.6
2012	10-Dec-12	11	136.9			418.9	2126.9		616.9	426
2012	10-Dec-12	12	164.3			414.8	2024.6		609.5	414.5
2012	10-Dec-12	13	200.6			413.2	2029.6		607.4	408
2012	10-Dec-12	14	172.2			412	1888.5		602.9	407.1
2012	10-Dec-12	15	128.2			412.4	1777.1		589.3	427.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	10-Dec-12	16	165			473	1989.1		602.4	532
2012	10-Dec-12	17	322.3			809.5	2267.7		602.4	735
2012	10-Dec-12	18	535.5			1416.1	2644.9		600.8	706.4
2012	10-Dec-12	19	669.3			1358.1	2782.8		448.6	707.4
2012	10-Dec-12	20	558.6			935.3	2681.8		405	696.9
2012	10-Dec-12	21	429.1			493	2365.2		413.6	511
2012	10-Dec-12	22	267.5			489.8	2083.7		412.8	416.8
2012	10-Dec-12	23	239.8			493.5	1772.6		409.8	416.4
2012	11-Dec-12	0	166.8			492	1699.5		408.4	412.4
2012	11-Dec-12	1	162.7			490.4	1675.8		414.6	410.5
2012	11-Dec-12	2	147.3			489.9	1673.7		408.4	410
2012	11-Dec-12	3	158.1			490.4	1676.5		450.3	404.9
2012	11-Dec-12	4	200.1			488.1	1673.1		488.3	433.5
2012	11-Dec-12	5	237.4			487.8	1674.9		502.9	612.9
2012	11-Dec-12	6	222.7			486.2	1812.8		602.2	712.2
2012	11-Dec-12	7	148.2			468.3	1922.9		509.7	666.3
2012	11-Dec-12	8	67.7			477.1	1826.9		528.8	668.7
2012	11-Dec-12	9	69.8			482.4	1761.7		479.8	663.6
2012	11-Dec-12	10	82.8			479.8	1806.3		596.2	778.1
2012	11-Dec-12	11	91.9			477.6	1817.6		628.9	744.8
2012	11-Dec-12	12	107.4			474.2	1701.1		642.9	691.7
2012	11-Dec-12	13	147.7			470.4	1680.2		626.1	697
2012	11-Dec-12	14	143.3			460.4	1717.5		614.2	748.2
2012	11-Dec-12	15	117.8			460.5	1733.7		615.7	754.8
2012	11-Dec-12	16	120.6			462.3	1792.4		575.3	749
2012	11-Dec-12	17	173.3			533	2037.4		466.1	713
2012	11-Dec-12	18	199.6			824.6	2401.8		448.3	676.2
2012	11-Dec-12	19	290.1			802.5	2502.6		441.1	689.5
2012	11-Dec-12	20	367.6			572.4	2512.8		442.6	689.6
2012	11-Dec-12	21	304.1			457.6	2448.8		432.6	672.9
2012	11-Dec-12	22	212.8			436.5	2191.5		457.6	680.4
2012	11-Dec-12	23	158.4			434.1	1833.6		454.1	758
2012	12-Dec-12	0	144.1			430.6	1725.3		495.7	746.3
2012	12-Dec-12	1	139			423.9	1706.9		469.1	743.2
2012	12-Dec-12	2	116.4			421.2	1718.4		438.2	743.9
2012	12-Dec-12	3	109.3			420.7	1715.9		432.1	741.1
2012	12-Dec-12	4	131.4			420.4	1717.7		477.3	741.9
2012	12-Dec-12	5	146			414.2	1718.9		443.2	735.4
2012	12-Dec-12	6	121.8			415.5	1829.8		439.6	754.1
2012	12-Dec-12	7	108.1			627.7	2254.2		471.1	769
2012	12-Dec-12	8	76.6			472.6	2233.7		435.1	773.2
2012	12-Dec-12	9	100			442.2	2203.2		478.3	796.1
2012	12-Dec-12	10	99.7			436.5	2026		464.9	782.9
2012	12-Dec-12	11	89.9			433.3	1773.6		451.7	789

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	12-Dec-12	12	93.3			434.8	1716.5		456	797.8
2012	12-Dec-12	13	115			429.9	1733.9		456.4	799.3
2012	12-Dec-12	14	108.6			422.7	1727.3		451.8	805
2012	12-Dec-12	15	97			422.6	1725.3		439.4	806
2012	12-Dec-12	16	161			626.4	1911.7		455.6	801.2
2012	12-Dec-12	17	807.3			1207.6	2403		513.7	789.3
2012	12-Dec-12	18	1294.4			1158.2	2627.1		459.2	795.8
2012	12-Dec-12	19	1348.3			1332.9	2908.6		457.8	791.1
2012	12-Dec-12	20	1325.7			1313.1	2868.2		451.4	768.2
2012	12-Dec-12	21	1593.5			1135.7	2748.8		469.7	766.6
2012	12-Dec-12	22	1185.2			862.5	2454.3		455.6	764.9
2012	12-Dec-12	23	763.1			494.5	2183.2		449.6	749.9
2012	13-Dec-12	0	568.3			428.4	1942.6		467.1	605.2
2012	13-Dec-12	1	543.7			428.6	1722.1		583.1	454.8
2012	13-Dec-12	2	345			428.8	1694.1		616.9	411.6
2012	13-Dec-12	3	185.1			434.8	1681.2		618.3	410.4
2012	13-Dec-12	4	163.6	0		435.9	1698.3		635.5	413.3
2012	13-Dec-12	5	154.7	0		437.9	1694.9		571.7	414.4
2012	13-Dec-12	6	209.6	0		555.8	1917.7		466.7	419.2
2012	13-Dec-12	7	504.9	5.3		1190.5	2374.9		441.6	434.3
2012	13-Dec-12	8	782.7	0		1402.5	2673.5		473	412.7
2012	13-Dec-12	9	1013.3	0		1242.9	2606.3		458.2	416.9
2012	13-Dec-12	10	615.9	0		819.5	2411.5		455.8	573.6
2012	13-Dec-12	11	481.8	0		549.8	2032.9		490.1	525.1
2012	13-Dec-12	12	396.3	0		468.7	1727		457.2	698.1
2012	13-Dec-12	13	286.5	0		458.6	1731		500.9	782.7
2012	13-Dec-12	14	279.1	0		448.3	1718.5		469.3	798.4
2012	13-Dec-12	15	196.8	0		438.9	1710.8		456.3	798.8
2012	13-Dec-12	16	184	0		432.3	1716.9		450.3	792.9
2012	13-Dec-12	17	203.4	0		565.9	1906.5		447.1	797.5
2012	13-Dec-12	18	259.6	0		466.3	2053		457.9	792.6
2012	13-Dec-12	19	183.1	0		426.6	2083.6		446.2	786
2012	13-Dec-12	20	243	0		554.9	2445.2		446.9	787.7
2012	13-Dec-12	21	207.1	0		776.1	2705.3		455	772.8
2012	13-Dec-12	22	167	0		649.5	2657.1		447.1	629.7
2012	13-Dec-12	23	133.4	0		421.3	2389.6		447.7	544.5
2012	14-Dec-12	0		0		414.7	2150.7		650	432.6
2012	14-Dec-12	1		0		411.5	1895.1		616.4	433.7
2012	14-Dec-12	2		0		409.9	1694.6		597	433.2
2012	14-Dec-12	3		0		405.3	1697.3		554.8	431.4
2012	14-Dec-12	4		0		401.6	1691.5		413.4	562.5
2012	14-Dec-12	5		0		401.8	1816.2		397	824.1
2012	14-Dec-12	6		0		469.7	2013.3		395.1	805.6
2012	14-Dec-12	7		1		1123	2438.4		398.8	805.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	14-Dec-12	8		1.2		808.9	2523.3		398.3	801.9
2012	14-Dec-12	9		0		508.7	2513.8		400.8	798.2
2012	14-Dec-12	10		0		403.9	2289.2		397.1	801.5
2012	14-Dec-12	11		0		417.9	1964.1		414.9	806.5
2012	14-Dec-12	12		0		423.6	1741.3		582.6	809.8
2012	14-Dec-12	13		0		422.6	1651		592.2	801.3
2012	14-Dec-12	14		0		424.5	1647.6		505.8	805.3
2012	14-Dec-12	15		0		425.4	1629.2		495.9	803.6
2012	14-Dec-12	16		0		419.4	1606.6		516.6	804.5
2012	14-Dec-12	17		0		508.9	1801.9		607.7	796.7
2012	14-Dec-12	18		0		438.2	1789.1		595.7	790
2012	14-Dec-12	19		0		414	1807.6		530.4	787.7
2012	14-Dec-12	20		0		417.5	1887.1		568.6	759.6
2012	14-Dec-12	21		0		419.1	1788.9		617	752.1
2012	14-Dec-12	22		0		417.9	1631		615.3	658.4
2012	14-Dec-12	23		1.7		417.2	1663.1		626.6	477.8
2012	15-Dec-12	0		4.1		418.7	1874.2		642.9	399
2012	15-Dec-12	1		4.1		421.2	1770.7		565.7	401.9
2012	15-Dec-12	2		5.6		422.1	1638.8		561.4	403.5
2012	15-Dec-12	3		0		422.8	1627.4		585.7	401.7
2012	15-Dec-12	4		0		423	1637.5		616.6	569.8
2012	15-Dec-12	5		0		424.6	1710.8		594.5	832.6
2012	15-Dec-12	6		0		417.1	1647.8		636.9	813.3
2012	15-Dec-12	7		9.7	0.047	431.1	1724.9		657.1	801
2012	15-Dec-12	8		5.3	0.051	426.7	1979.4		632.5	792.2
2012	15-Dec-12	9		1.696	0.037	424.8	2148.9		636.3	798.3
2012	15-Dec-12	10		0		427.5	1993		639.7	794.3
2012	15-Dec-12	11		0		419.7	1779.1		656.1	792.4
2012	15-Dec-12	12		0		424	1636.9		621.4	804.9
2012	15-Dec-12	13		1		421.5	1643		629.4	801.8
2012	15-Dec-12	14		1.3		421.3	1648.4		616.2	835.4
2012	15-Dec-12	15		0		417.6	1647.9		608.9	828.5
2012	15-Dec-12	16		0		418.7	1666		616.5	816.8
2012	15-Dec-12	17		1		416.1	1918.2		628.7	821.4
2012	15-Dec-12	18		1.2		416.3	1971.3		635.7	834.5
2012	15-Dec-12	19		4.2		417.9	1802.7		622.7	852.9
2012	15-Dec-12	20		7		418.7	1805.9		620.7	836.5
2012	15-Dec-12	21		3.6		417.9	1693.7		620.9	793.9
2012	15-Dec-12	22		0		413.8	1672		636.9	679
2012	15-Dec-12	23		0		418	1700.3		655.4	624.4
2012	16-Dec-12	0		0		420.8	1701.1		644	745.4
2012	16-Dec-12	1				422.2	1677.2		652.6	546.3
2012	16-Dec-12	2				420.6	1698.7		668.5	508.3
2012	16-Dec-12	3				424.5	1713.8		645.1	508.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	16-Dec-12	4				425	1704		643.9	503.4
2012	16-Dec-12	5				426.3	1703.5		649.5	498.2
2012	16-Dec-12	6				424.5	1710.1		618.7	491.4
2012	16-Dec-12	7				432.3	1672.5		525.5	492.1
2012	16-Dec-12	8				417.8	1683.2		513.5	484
2012	16-Dec-12	9				414.6	1691.8		452.2	521.6
2012	16-Dec-12	10				408.3	1689.2		441.2	622.4
2012	16-Dec-12	11				403.3	1667.8		474.5	666.5
2012	16-Dec-12	12				402.6	1647.8		482	772.1
2012	16-Dec-12	13				403.9	1655.8		471.5	802
2012	16-Dec-12	14				403.9	1659.9		474	762.9
2012	16-Dec-12	15				406.3	1705.4		473.4	788.7
2012	16-Dec-12	16				427.9	1847.9		472.3	730
2012	16-Dec-12	17				439.3	2105.2		473.4	690.7
2012	16-Dec-12	18				408.1	2064.7		520.6	671.3
2012	16-Dec-12	19				528	2163.8		637	678
2012	16-Dec-12	20				492.6	2108.9		671.1	707.4
2012	16-Dec-12	21				410.9	1975.1		647.9	644.8
2012	16-Dec-12	22				409.4	1665.2		635.4	488.1
2012	16-Dec-12	23				411.1	1647.1		656.8	438.3
2012	17-Dec-12	0				410.7	1663.9		668.9	432.4
2012	17-Dec-12	1				410.8	1650.8		653.1	540.5
2012	17-Dec-12	2				412	1624.8		646.6	840.3
2012	17-Dec-12	3				412.4	1615.3		659.9	821.6
2012	17-Dec-12	4				413.3	1651.4		646.2	843.5
2012	17-Dec-12	5				406.3	1656.9		519.9	799.1
2012	17-Dec-12	6				408.9	1745.2		464.3	787.3
2012	17-Dec-12	7				421.1	1915.3		466.1	783.1
2012	17-Dec-12	8				416.4	1972.6		460	777.5
2012	17-Dec-12	9				418.4	1923.4		457.5	312.156
2012	17-Dec-12	10				418.5	2058.4		452.4	
2012	17-Dec-12	11				418.7	1993.7		546.4	
2012	17-Dec-12	12				415.7	1806.5		665	
2012	17-Dec-12	13				418.5	1803.2		669.3	
2012	17-Dec-12	14				423.3	1686.5		667	
2012	17-Dec-12	15				424.6	1718.9		681.1	
2012	17-Dec-12	16				423.8	1938.8		683.7	
2012	17-Dec-12	17				481.7	2087.7		683.1	
2012	17-Dec-12	18				462.6	2144.9		678.4	
2012	17-Dec-12	19				717.2	2265.2		189.7	
2012	17-Dec-12	20				571.8	2256.8			
2012	17-Dec-12	21				421.6	2159.4		42.579	
2012	17-Dec-12	22				428.2	1778.2		55.5	
2012	17-Dec-12	23				431.8	1708.1		68.9	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	18-Dec-12	0				428.6	1724.3		187.6	
2012	18-Dec-12	1				430.2	1714.3		261.7	
2012	18-Dec-12	2				427.5	1704		330.5	
2012	18-Dec-12	3				420.5	1714.1		362.2	
2012	18-Dec-12	4				419.2	1731		412.1	
2012	18-Dec-12	5				416.9	1720.9		406.5	
2012	18-Dec-12	6				412.1	1744.2		365.8	
2012	18-Dec-12	7				424.7	1971.3		365.2	
2012	18-Dec-12	8				419.8	1828.4		354.1	
2012	18-Dec-12	9				420.4	1770.8		351.9	
2012	18-Dec-12	10				413.5	1694		360	
2012	18-Dec-12	11				404.1	1688.5		369.6	
2012	18-Dec-12	12				406.5	1694.7		390.8	
2012	18-Dec-12	13				410.4	1737.6		384.8	
2012	18-Dec-12	14				409.5	1745.8		375.8	
2012	18-Dec-12	15				412.2	1731.1		377.8	
2012	18-Dec-12	16				415.2	1791.2		452.2	
2012	18-Dec-12	17				507.8	2135.7		380.7	
2012	18-Dec-12	18				708.2	2286.8		380.8	
2012	18-Dec-12	19				456.8	2438.3		386.4	
2012	18-Dec-12	20				413.9	2376.5		384.8	
2012	18-Dec-12	21				418.4	2222.8		386.6	
2012	18-Dec-12	22				417.8	1891.4		391.3	
2012	18-Dec-12	23				416.3	1734.4		403.5	
2012	19-Dec-12	0				416.7	1720.2		405.5	
2012	19-Dec-12	1				419.1	1712.4		416.7	
2012	19-Dec-12	2				419.8	1716.4		422.4	
2012	19-Dec-12	3				418.5	1720.8		415.9	
2012	19-Dec-12	4				414.7	1691.7		405.2	
2012	19-Dec-12	5				418.1	1695		371.3	
2012	19-Dec-12	6				641.4	2020.7		369	
2012	19-Dec-12	7				725.9	2375.3		380.2	
2012	19-Dec-12	8				547.9	2475.7		399.1	
2012	19-Dec-12	9				410.5	2266.2		406.3	
2012	19-Dec-12	10				420.6	1927.6		390.5	
2012	19-Dec-12	11				421.4	1734.9		402.8	
2012	19-Dec-12	12				424	1727.8		400	
2012	19-Dec-12	13				423.6	1721.7		394.9	
2012	19-Dec-12	14				415.9	1703.4		392.8	
2012	19-Dec-12	15				422	1711.6		392.6	
2012	19-Dec-12	16				423.8	1750.6		389.6	
2012	19-Dec-12	17				476.5	1939.3		388.5	
2012	19-Dec-12	18				422.5	2205.9		401.4	
2012	19-Dec-12	19				432	2418.5		397.7	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	19-Dec-12	20				406.1	2370.9		403.5	
2012	19-Dec-12	21				418.7	2175.9		424.2	
2012	19-Dec-12	22				416.8	1889.1		435.6	
2012	19-Dec-12	23				417.2	1691		421	
2012	20-Dec-12	0				416.5	1674.3		409.3	
2012	20-Dec-12	1				408.5	1678.4		396.7	
2012	20-Dec-12	2				412.8	1675.4		401.5	
2012	20-Dec-12	3				412.8	1682.2		410.2	
2012	20-Dec-12	4				412.9	1680.8		408.1	
2012	20-Dec-12	5				414.6	1672.6		397.9	
2012	20-Dec-12	6				415.9	1746.3		402.9	
2012	20-Dec-12	7				428.4	2135.3		397	
2012	20-Dec-12	8				437.1	2337.9		410.6	
2012	20-Dec-12	9				421.2	2220.6		409.5	
2012	20-Dec-12	10				423	2070.7		416.4	
2012	20-Dec-12	11				425.5	1926.2		411.1	
2012	20-Dec-12	12				428	1849.1		408.6	
2012	20-Dec-12	13				428.9	1824.5		411.4	
2012	20-Dec-12	14				428.9	1945.4		406.4	
2012	20-Dec-12	15				430.4	1867.8		398.4	
2012	20-Dec-12	16				450.5	2128.5		392.3	
2012	20-Dec-12	17				705.9	2454.2		392.7	
2012	20-Dec-12	18				816	2561.5		394.5	
2012	20-Dec-12	19				635.8	2542.1		399.1	
2012	20-Dec-12	20				602.1	2690.5		394.8	
2012	20-Dec-12	21				452.5	2499.4		390.3	
2012	20-Dec-12	22				404.1	2133.4		383.6	
2012	20-Dec-12	23				410.8	1802.1		402.6	
2012	21-Dec-12	0				417.3	1664.9		410.2	
2012	21-Dec-12	1				417.8	1656.7		382.9	
2012	21-Dec-12	2				415.4	1665.2		384.6	
2012	21-Dec-12	3				417.4	1645.7		394.4	
2012	21-Dec-12	4				416.6	1643.7		378.8	
2012	21-Dec-12	5				417.2	1686.6		376.9	
2012	21-Dec-12	6				433.3	1848.2		374.8	
2012	21-Dec-12	7				582.6	2184.4		387.8	
2012	21-Dec-12	8				561.4	2496.8		386.6	
2012	21-Dec-12	9				753.2	2763		387.9	
2012	21-Dec-12	10				972.3	2875.7		384.6	
2012	21-Dec-12	11				1154.2	2836.1		385.6	
2012	21-Dec-12	12				959.8	2608.2		407.6	
2012	21-Dec-12	13				488.2	2497.2		400.8	
2012	21-Dec-12	14				379.3	2508		399.1	
2012	21-Dec-12	15				390.4	2488.5		393.6	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	21-Dec-12	16				533.6	2672.8		395.5	
2012	21-Dec-12	17				812.1	2908.9		414.8	
2012	21-Dec-12	18				1186.9	2893		195.6	
2012	21-Dec-12	19				1282.6	2941.8			
2012	21-Dec-12	20				1420.1	2942.8			
2012	21-Dec-12	21				1364.6	2894.3			
2012	21-Dec-12	22				1129.2	2777.9			
2012	21-Dec-12	23				655.1	2694.6			
2012	22-Dec-12	0				389	2342.2			
2012	22-Dec-12	1				395.1	2003.2			
2012	22-Dec-12	2				390.3	1754.2			
2012	22-Dec-12	3				384	1910			
2012	22-Dec-12	4				385.4	1794.3			
2012	22-Dec-12	5				386.6	1705.2			
2012	22-Dec-12	6				385.5	1795.9			
2012	22-Dec-12	7				389.3	2046.5			
2012	22-Dec-12	8				386.5	2113.2			
2012	22-Dec-12	9				497.7	2395.8			
2012	22-Dec-12	10				567.5	2581			
2012	22-Dec-12	11				388.5	2405.6			
2012	22-Dec-12	12				382.9	2140.6			
2012	22-Dec-12	13				381.2	1944.9			
2012	22-Dec-12	14				384.7	1729			
2012	22-Dec-12	15				385.2	1727.5			
2012	22-Dec-12	16				390.2	1819.6			
2012	22-Dec-12	17				509.2	2128.8			
2012	22-Dec-12	18				861.3	2453.3			
2012	22-Dec-12	19				1159.9	2791.1			1.558
2012	22-Dec-12	20				1390.7	2880.6			1.162
2012	22-Dec-12	21				1319	2805.2			1.44
2012	22-Dec-12	22				1056.7	2480.2			4.2
2012	22-Dec-12	23				484	2151.4			1.9
2012	23-Dec-12	0				425.1	1907.8			1.8
2012	23-Dec-12	1				417.3	1860.1			1.8
2012	23-Dec-12	2				424.1	1766.2			4.5
2012	23-Dec-12	3				431.6	1713.3			1.9
2012	23-Dec-12	4				529.5	1984.8			1.7
2012	23-Dec-12	5				747.8	2535.3			1.7
2012	23-Dec-12	6				1178.6	2889.3			26.4
2012	23-Dec-12	7				1257.4	2741.6			125.9
2012	23-Dec-12	8				737.4	2456.6			241.9
2012	23-Dec-12	9				433.9	2116.7			404.3
2012	23-Dec-12	10				419.3	1863.9			501
2012	23-Dec-12	11				409.9	1685.9			499.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	23-Dec-12	12				414.6	1690			579.8
2012	23-Dec-12	13				415	1823.7			559.1
2012	23-Dec-12	14				413.1	1722.5			626.3
2012	23-Dec-12	15				408.8	1708.4			673
2012	23-Dec-12	16				411.6	1705.2			687.3
2012	23-Dec-12	17				484.1	1921.2			678.9
2012	23-Dec-12	18				483.4	2099.9			671.3
2012	23-Dec-12	19				438.4	2099.4			659.7
2012	23-Dec-12	20				488.7	2230.2			593.5
2012	23-Dec-12	21				437.3	2452.2			529.9
2012	23-Dec-12	22				426.8	1988.3			428.3
2012	23-Dec-12	23				418.5	1744.5			446
2012	24-Dec-12	0				419	1701.2			444.5
2012	24-Dec-12	1				419.9	1686			442
2012	24-Dec-12	2				428.4	1703			441.1
2012	24-Dec-12	3				432.2	1695.9			442.1
2012	24-Dec-12	4				432.1	1695		0	441
2012	24-Dec-12	5				440	1720.6		0	442.2
2012	24-Dec-12	6				435.2	1713.1		0	443.3
2012	24-Dec-12	7				449.7	1766.2		0	452.7
2012	24-Dec-12	8				444.6	1830.4		0	429.7
2012	24-Dec-12	9				521.4	2021.4			461.8
2012	24-Dec-12	10				754.7	2281.2			550.4
2012	24-Dec-12	11				663.5	2480.3			584.4
2012	24-Dec-12	12				845.9	2649			744.1
2012	24-Dec-12	13				767.1	2717.1			754.8
2012	24-Dec-12	14				682.8	2772.7			745.8
2012	24-Dec-12	15				509.7	2672.7			733.2
2012	24-Dec-12	16				428.2	2535.1			726.8
2012	24-Dec-12	17				522.6	2695			726.2
2012	24-Dec-12	18				444.7	2633.4			723.2
2012	24-Dec-12	19				425.9	2636			729.2
2012	24-Dec-12	20				426.4	2583.6			733.7
2012	24-Dec-12	21				426.9	2423.6			733.6
2012	24-Dec-12	22				415.2	2269.7			725
2012	24-Dec-12	23				411.6	2002.3			727.5
2012	25-Dec-12	0				418.9	1781			727.2
2012	25-Dec-12	1				418.3	1677.7			731.5
2012	25-Dec-12	2				419.1	1691.4			734.4
2012	25-Dec-12	3				422	1681			759.9
2012	25-Dec-12	4				425.2	1691			749.5
2012	25-Dec-12	5				428.3	1734.5			746.3
2012	25-Dec-12	6				431.4	1763.7			659.3
2012	25-Dec-12	7				438	1706.5			513.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	25-Dec-12	8				431	1719.2			492
2012	25-Dec-12	9				427.1	1699.7			593.2
2012	25-Dec-12	10				426.1	1696.4			564.9
2012	25-Dec-12	11				424.4	1695.6			729.4
2012	25-Dec-12	12				426.4	1699.6			815.4
2012	25-Dec-12	13				427.5	1696.8			781.4
2012	25-Dec-12	14				423.1	1693.6			801.4
2012	25-Dec-12	15				425.9	1704			791.4
2012	25-Dec-12	16				425.3	1700.4			792.3
2012	25-Dec-12	17				424.5	1720.4			790.5
2012	25-Dec-12	18				428.7	1680.2			728.8
2012	25-Dec-12	19				430.4	1719.7			723.1
2012	25-Dec-12	20				430.7	1753.3			742.6
2012	25-Dec-12	21				431.4	1718.7			681.2
2012	25-Dec-12	22				429.3	1508.8			489.1
2012	25-Dec-12	23				435.7	446.578			406.6
2012	26-Dec-12	0				440.8				417.5
2012	26-Dec-12	1				441.1				422.5
2012	26-Dec-12	2				444.5				423.6
2012	26-Dec-12	3				438.9				421.1
2012	26-Dec-12	4				437				423.8
2012	26-Dec-12	5				435.6				421.8
2012	26-Dec-12	6				432.7				418.8
2012	26-Dec-12	7				440.8				421.7
2012	26-Dec-12	8				431.9				419.8
2012	26-Dec-12	9				710.6				421.6
2012	26-Dec-12	10				961.9				679.2
2012	26-Dec-12	11				1318.9				586.7
2012	26-Dec-12	12				1475.8				574.5
2012	26-Dec-12	13				1506.6				609
2012	26-Dec-12	14				1376.7				664.1
2012	26-Dec-12	15				1208.5				720
2012	26-Dec-12	16				929.3				718.9
2012	26-Dec-12	17				1342.2				545.7
2012	26-Dec-12	18				1427	0			436.2
2012	26-Dec-12	19				1267.2	0			437.4
2012	26-Dec-12	20				1142.5	26.7			436
2012	26-Dec-12	21				1114.1	215.1			403.1
2012	26-Dec-12	22				666.2	378.7			405.3
2012	26-Dec-12	23				447.2	429.8			410.5
2012	27-Dec-12	0				449.2	675.6			414.4
2012	27-Dec-12	1				446	1200.7			411.6
2012	27-Dec-12	2				425.4	1557.5			405.3
2012	27-Dec-12	3				415.9	1851.9			412.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	27-Dec-12	4				414.1	2159.3			412.3
2012	27-Dec-12	5				411.6	2206.3			413
2012	27-Dec-12	6				410.9	1899.2			408.9
2012	27-Dec-12	7				439.6	1972.8			409.7
2012	27-Dec-12	8				426.9	2044.3			412.3
2012	27-Dec-12	9				789.1	2020.5			413.9
2012	27-Dec-12	10				1073	2030.7			411.7
2012	27-Dec-12	11				1264.3	2180.3			416.1
2012	27-Dec-12	12				1094.3	2521.6			429.1
2012	27-Dec-12	13				733.3	2580.5			421.8
2012	27-Dec-12	14				450.7	2332.2			424.2
2012	27-Dec-12	15				416.8	2176.7			586.1
2012	27-Dec-12	16				418.8	2376.7			545.8
2012	27-Dec-12	17				697.3	2877			438.1
2012	27-Dec-12	18				1085	3046.5			438.2
2012	27-Dec-12	19				833.8	2948.3			441
2012	27-Dec-12	20				781.5	3070.4			440.2
2012	27-Dec-12	21				946.3	3081.4			466.1
2012	27-Dec-12	22				498.6	2718.3			478.9
2012	27-Dec-12	23				399.7	2277.8			477.2
2012	28-Dec-12	0				405.5	1870.9			470.5
2012	28-Dec-12	1				411.9	1792.8			474.8
2012	28-Dec-12	2				416.1	1783			433
2012	28-Dec-12	3				421.6	1792.2			435.7
2012	28-Dec-12	4				437.2	1814.3			435.1
2012	28-Dec-12	5				449.8	1823.4			432
2012	28-Dec-12	6				461.3	1809.8			425.3
2012	28-Dec-12	7				483.7	164.484			410
2012	28-Dec-12	8				495.7				418.8
2012	28-Dec-12	9				502.1				404.3
2012	28-Dec-12	10				507				403.7
2012	28-Dec-12	11				514.3	10.5			516.8
2012	28-Dec-12	12				530.7	333.6			517.9
2012	28-Dec-12	13				535.9	309.9			561.9
2012	28-Dec-12	14				543.2	509.9			799.2
2012	28-Dec-12	15				554.3	982.9			817.2
2012	28-Dec-12	16				564.9	1631.5			808.7
2012	28-Dec-12	17				566.9	1957.9			811.2
2012	28-Dec-12	18				638.2	2210.3			782.6
2012	28-Dec-12	19				531.3	2300			785.3
2012	28-Dec-12	20				536.3	2313.3			769.2
2012	28-Dec-12	21				528.6	2117.3			601.6
2012	28-Dec-12	22				524.8	2130.4			481
2012	28-Dec-12	23				517.8	1982			423.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	29-Dec-12	0				517.5	2041			498.2
2012	29-Dec-12	1				526.6	1676			452.9
2012	29-Dec-12	2				535.2	229.48			436.8
2012	29-Dec-12	3				525.4				433.7
2012	29-Dec-12	4				503.2				464.5
2012	29-Dec-12	5				495				644.8
2012	29-Dec-12	6				485.8				794.4
2012	29-Dec-12	7				501.6				787.1
2012	29-Dec-12	8				489.9				815.3
2012	29-Dec-12	9				489				800.2
2012	29-Dec-12	10				482.7				801.7
2012	29-Dec-12	11				566.3				821.2
2012	29-Dec-12	12				725.2				851.2
2012	29-Dec-12	13				526.1				847.1
2012	29-Dec-12	14				486.5				842.7
2012	29-Dec-12	15				485.6				833
2012	29-Dec-12	16				490.1				817.5
2012	29-Dec-12	17				680.8				796.7
2012	29-Dec-12	18				959.5				734.7
2012	29-Dec-12	19				987.4				705.8
2012	29-Dec-12	20				1100				587.1
2012	29-Dec-12	21				680.2				438
2012	29-Dec-12	22				449.6				423.1
2012	29-Dec-12	23				445				422.1
2012	30-Dec-12	0								420.2
2012	30-Dec-12	1								419.1
2012	30-Dec-12	2								418.8
2012	30-Dec-12	3								422
2012	30-Dec-12	4								464.6
2012	30-Dec-12	5								755.1
2012	30-Dec-12	6								820.5
2012	30-Dec-12	7								847
2012	30-Dec-12	8								824.3
2012	30-Dec-12	9								821.5
2012	30-Dec-12	10								825.8
2012	30-Dec-12	11								836.5
2012	30-Dec-12	12								821
2012	30-Dec-12	13								805
2012	30-Dec-12	14								802.8
2012	30-Dec-12	15								809.4
2012	30-Dec-12	16								770.3
2012	30-Dec-12	17								747.8
2012	30-Dec-12	18								703.3
2012	30-Dec-12	19								691.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2012	30-Dec-12	20								490.8
2012	30-Dec-12	21								446.8
2012	30-Dec-12	22								439.8
2012	30-Dec-12	23								439
2012	31-Dec-12	0								436.7
2012	31-Dec-12	1							0	438.3
2012	31-Dec-12	2							0	452.1
2012	31-Dec-12	3							7.4	445.8
2012	31-Dec-12	4							34.6	429.3
2012	31-Dec-12	5							51.9	418.1
2012	31-Dec-12	6							57.7	446
2012	31-Dec-12	7							66.8	435.8
2012	31-Dec-12	8							66	438.5
2012	31-Dec-12	9							66	439.9
2012	31-Dec-12	10							74.8	434.7
2012	31-Dec-12	11							77	437.7
2012	31-Dec-12	12							77	437.1
2012	31-Dec-12	13							75.9	434.9
2012	31-Dec-12	14							88.8	440.9
2012	31-Dec-12	15							89.4	441.4
2012	31-Dec-12	16							121.8	463.3
2012	31-Dec-12	17							207.4	443.5
2012	31-Dec-12	18							302	443.3
2012	31-Dec-12	19							491.7	435.3
2012	31-Dec-12	20							497.1	449.1
2012	31-Dec-12	21							493.1	431.1
2012	31-Dec-12	22							490.4	434.9
2012	31-Dec-12	23							490.6	434
2013	1-Jan-13	0	239.1	0		438.9			452.4	
2013	1-Jan-13	1	172.4	0		427.8			439.1	
2013	1-Jan-13	2	235.4	0		428.3			435.7	
2013	1-Jan-13	3	155.3	0		426			441.1	
2013	1-Jan-13	4	163.8	0		426.5			548.1	
2013	1-Jan-13	5	170.7	0		425.9			498.6	
2013	1-Jan-13	6	158.7	0		420.7			485.4	
2013	1-Jan-13	7	140.6	7.6		451.5			569.9	
2013	1-Jan-13	8	141.5	4.1		432.9			581	
2013	1-Jan-13	9	134.4	1.5		423.1			571.5	
2013	1-Jan-13	10	112.5	0		422			564	
2013	1-Jan-13	11	81.8	0		419.5			577.9	
2013	1-Jan-13	12	103.9	1.5		419.2			507.1	
2013	1-Jan-13	13	142.9	1.5		420.7			466.7	
2013	1-Jan-13	14	124.4	1.6		423.1			470.8	
2013	1-Jan-13	15	134.1	1.4		419.4			472.1	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	1-Jan-13	16	140.5	3.1		424.9			472.1	
2013	1-Jan-13	17	317.1	5.5		846.4			619	
2013	1-Jan-13	18	959.7	14.5		1530			789	
2013	1-Jan-13	19	940.9	15.5		1633.4			743.4	
2013	1-Jan-13	20	380.8	25.1		1329			626.1	
2013	1-Jan-13	21	196.5	23		655.1			518.7	
2013	1-Jan-13	22	267	29		450.3			527.1	
2013	1-Jan-13	23	169.9	22.8		455.9			517	
2013	2-Jan-13	0	436.3	30.5		462			484.4	
2013	2-Jan-13	1	623.1	32.4		441.8			478.1	
2013	2-Jan-13	2	222.4	43.6		437.2			496	
2013	2-Jan-13	3	178.3	49.3		437.3			507.6	
2013	2-Jan-13	4	162.8	62.8		439.1			516.5	
2013	2-Jan-13	5	145.6	50.9		443.3			507.6	
2013	2-Jan-13	6	140.2	59.6		448.1			483.6	
2013	2-Jan-13	7	268	73.8		465.1			479.9	
2013	2-Jan-13	8	105.3	69		447.8			472.2	
2013	2-Jan-13	9	97.9	37.3		444.7			481.7	
2013	2-Jan-13	10	94.7	54.6		440.6			477.4	
2013	2-Jan-13	11	75.7	78.6		439.9			475.4	
2013	2-Jan-13	12	90.6	87.7		444.1			533	
2013	2-Jan-13	13	123.4	82.6		447.6			531	
2013	2-Jan-13	14	104.1	102		451.2			521.6	1.953
2013	2-Jan-13	15	79.5	95.5		452.7			498.8	3.6
2013	2-Jan-13	16	93.4	111		452.5			495.1	1.8
2013	2-Jan-13	17	202.3	107.4		1151.4			579.9	1.8
2013	2-Jan-13	18	907.5	137.7		1832.7			743	1.7
2013	2-Jan-13	19	1303.4	143.5		1737.4			699.1	1.8
2013	2-Jan-13	20	817.9	147		1291.3			549	2
2013	2-Jan-13	21	680	217		708.4			495.7	1.9
2013	2-Jan-13	22	316.7	160.8		511.3			471.9	1.9
2013	2-Jan-13	23	181.8	159.6		488.5			468.7	7.6
2013	3-Jan-13	0	161.4	126.5		473.2			466	12
2013	3-Jan-13	1	162.4	151.4		478			486	14.7
2013	3-Jan-13	2	142.4	183.3		482.6			467	14.7
2013	3-Jan-13	3	132.3	192.1		486.1			465.1	14.6
2013	3-Jan-13	4	133.3	195		487.1			481.7	5.6
2013	3-Jan-13	5	148.7	180.6		485.1			497.4	4.9
2013	3-Jan-13	6	156	215		476			494	24
2013	3-Jan-13	7	153.6	229.7		505.1			494.7	97.6
2013	3-Jan-13	8	120.5	240.4		499.9			499.6	164.9
2013	3-Jan-13	9	119.8	202.4		498			498.4	192.4
2013	3-Jan-13	10	104.4	279.2		493.5			491.9	32.752
2013	3-Jan-13	11	174.8	260.9		488.8			492	54.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	3-Jan-13	12	569.8	291.5		496.5			495.9	171.5
2013	3-Jan-13	13	648.2	239.9		502.8			492.7	263.5
2013	3-Jan-13	14	641.9	261.9		506.8			495.6	404.7
2013	3-Jan-13	15	454.6	243.5		509.9			496.6	417.1
2013	3-Jan-13	16	165.7	336.8		513.1			498.8	455.9
2013	3-Jan-13	17	190	373.7		769.2			542.5	435.3
2013	3-Jan-13	18	611.2	453.1		1855.5			699.1	370.9
2013	3-Jan-13	19	1056.6	720.3		1871.4			714.3	419.4
2013	3-Jan-13	20	764.2	526.4		1664.6			556.2	411.6
2013	3-Jan-13	21	571.5	602.5		948.8			465.9	158.6
2013	3-Jan-13	22	306.7	337.3		497.8			461.5	14.04
2013	3-Jan-13	23	222	374.2		492.1			475.2	
2013	4-Jan-13	0	188.3	268.5		476.7			479.4	
2013	4-Jan-13	1	203.2	292.6		479			478.5	
2013	4-Jan-13	2	187	322.4		468			650.2	
2013	4-Jan-13	3	156.4	304.9		470.8			564.4	
2013	4-Jan-13	4	113.4	367.4		479.4			541.7	
2013	4-Jan-13	5	151.2	297.6		481.2			522.5	
2013	4-Jan-13	6	198.8	359.4		506.6			551.1	
2013	4-Jan-13	7	241.4	369.6		625.4			502.2	
2013	4-Jan-13	8	239.4	295.9		727.1			509.6	
2013	4-Jan-13	9	278.8	317.5		571.4			497.9	
2013	4-Jan-13	10	209.7	344		586.5			497.3	
2013	4-Jan-13	11	165.9	468.1		545.4			495.2	
2013	4-Jan-13	12	200.5	376.9		513.7			508.1	
2013	4-Jan-13	13	235.9	471		513.1			505.6	
2013	4-Jan-13	14	186.8	357.9		516.1			501.9	
2013	4-Jan-13	15	143.6	489.2		516.2			526.8	
2013	4-Jan-13	16	107.8	411.6		515.5			523.3	
2013	4-Jan-13	17	142.1	650.9		610.1			554.1	
2013	4-Jan-13	18	260.3	495.6		802			556	
2013	4-Jan-13	19	207.8	597.5		503.6			496.9	
2013	4-Jan-13	20	152.1	426.3		504.7			493.6	
2013	4-Jan-13	21	195.6	516.3		545			491.4	
2013	4-Jan-13	22	185.5	360.3		509.2			511.5	
2013	4-Jan-13	23	183.3	472.1		511			567.4	
2013	5-Jan-13	0	138.7	293.4		226.8			464.4	
2013	5-Jan-13	1	66	460.1		0			207.9	
2013	5-Jan-13	2	11.34	347.4		0			2.12	
2013	5-Jan-13	3		485.6		0				
2013	5-Jan-13	4		431.5		0				
2013	5-Jan-13	5		639.8		0				
2013	5-Jan-13	6		705.9		0				
2013	5-Jan-13	7		1469		19.7				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Jan-13	8		1265		6.4				
2013	5-Jan-13	9		818.5		2				
2013	5-Jan-13	10		312.1		0				
2013	5-Jan-13	11		416.8		0				
2013	5-Jan-13	12		217.7		0				
2013	5-Jan-13	13		369.5		0				
2013	5-Jan-13	14		453.1		0				
2013	5-Jan-13	15		687.8		0				
2013	5-Jan-13	16		547.6		0				
2013	5-Jan-13	17		885.7		0				
2013	5-Jan-13	18		399.7		0				
2013	5-Jan-13	19		522.5		0				
2013	5-Jan-13	20		311.3		0				
2013	5-Jan-13	21		336.5		0				
2013	5-Jan-13	22		190.9		0				
2013	5-Jan-13	23		255		0				
2013	6-Jan-13	0		154.1		0				
2013	6-Jan-13	1		166.9		0				
2013	6-Jan-13	2		168.4		0				
2013	6-Jan-13	3		139.3		0				
2013	6-Jan-13	4		135		0				
2013	6-Jan-13	5		99.4		0				
2013	6-Jan-13	6		107.7		0				
2013	6-Jan-13	7		89.6		17.7				
2013	6-Jan-13	8		94.1		4.7				
2013	6-Jan-13	9		82.5		2.6				
2013	6-Jan-13	10		103.1		0				
2013	6-Jan-13	11		78.4		0				
2013	6-Jan-13	12		85.9		0				
2013	6-Jan-13	13		319.5		0				
2013	6-Jan-13	14		301.2		0				
2013	6-Jan-13	15		345		0				
2013	6-Jan-13	16		439		0				
2013	6-Jan-13	17		519.3		0				
2013	6-Jan-13	18		592.8		0				
2013	6-Jan-13	19		613.6		0				
2013	6-Jan-13	20		619.3		0				
2013	6-Jan-13	21		506.2		0				
2013	6-Jan-13	22		514.8		0				
2013	6-Jan-13	23		434.6		0				
2013	7-Jan-13	0		411.7		0				
2013	7-Jan-13	1		95		0				
2013	7-Jan-13	2		355.3		0				
2013	7-Jan-13	3		318.2		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	7-Jan-13	4		354.7		0				
2013	7-Jan-13	5		369.5		0				
2013	7-Jan-13	6		532.4		0				
2013	7-Jan-13	7		452.5		15.8				
2013	7-Jan-13	8		388.4		3.9				
2013	7-Jan-13	9		326.5		1.2				
2013	7-Jan-13	10		311.2		0				
2013	7-Jan-13	11		263.6		0				
2013	7-Jan-13	12		401.6		0				
2013	7-Jan-13	13		363.4		0				
2013	7-Jan-13	14		469.9		0				
2013	7-Jan-13	15		395.9		0				
2013	7-Jan-13	16		455.8		0				
2013	7-Jan-13	17		425.8		0				
2013	7-Jan-13	18		538.2		0				
2013	7-Jan-13	19		548.7		0				
2013	7-Jan-13	20		666.3		0				
2013	7-Jan-13	21		687		0				
2013	7-Jan-13	22		535.7		0				
2013	7-Jan-13	23		690.2		0				
2013	8-Jan-13	0		788.3		0				
2013	8-Jan-13	1		381.7		0				
2013	8-Jan-13	2		240.1		0				
2013	8-Jan-13	3		191.6		0				
2013	8-Jan-13	4		285.4		0				
2013	8-Jan-13	5		368.9		0				
2013	8-Jan-13	6		483		0				
2013	8-Jan-13	7		905.5		18.1				
2013	8-Jan-13	8		473.5		6.9				
2013	8-Jan-13	9		872.1		0.7				
2013	8-Jan-13	10		529.9		0				
2013	8-Jan-13	11		585.7		0				
2013	8-Jan-13	12		368.6		0				
2013	8-Jan-13	13		447.8		0				
2013	8-Jan-13	14		310.3		0				
2013	8-Jan-13	15		387.1		0				
2013	8-Jan-13	16		326.3		0				
2013	8-Jan-13	17		236.5		0				
2013	8-Jan-13	18		217.1		0				
2013	8-Jan-13	19		480.2		0				
2013	8-Jan-13	20		702		0				
2013	8-Jan-13	21		754.3		0				
2013	8-Jan-13	22		320.4		0				
2013	8-Jan-13	23		229.4		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	9-Jan-13	0		240.5		0				
2013	9-Jan-13	1		210.7		0				
2013	9-Jan-13	2		216.1						
2013	9-Jan-13	3		222.2						
2013	9-Jan-13	4		244.5						
2013	9-Jan-13	5		251.3						
2013	9-Jan-13	6		285.5						
2013	9-Jan-13	7		488.8						
2013	9-Jan-13	8		212.2						
2013	9-Jan-13	9		185.2						
2013	9-Jan-13	10		152.6						
2013	9-Jan-13	11		190.5						
2013	9-Jan-13	12		250.5						
2013	9-Jan-13	13		182.2						
2013	9-Jan-13	14		202.1						
2013	9-Jan-13	15		170.9						
2013	9-Jan-13	16		136.7						
2013	9-Jan-13	17		104.7						
2013	9-Jan-13	18		135.8						
2013	9-Jan-13	19		147.1						
2013	9-Jan-13	20		158.8						
2013	9-Jan-13	21		154.8						
2013	9-Jan-13	22		155.8						
2013	9-Jan-13	23		127.2						
2013	10-Jan-13	0		162.9						
2013	10-Jan-13	1		139.5						
2013	10-Jan-13	2		154.9						
2013	10-Jan-13	3		145.2						
2013	10-Jan-13	4		170						
2013	10-Jan-13	5		182.2						
2013	10-Jan-13	6		242.4						
2013	10-Jan-13	7		375.7						
2013	10-Jan-13	8		311.6						
2013	10-Jan-13	9		437.9						
2013	10-Jan-13	10		260.8						
2013	10-Jan-13	11		228.8						
2013	10-Jan-13	12		171.9						
2013	10-Jan-13	13		192.9						
2013	10-Jan-13	14		275						
2013	10-Jan-13	15		228.2						
2013	10-Jan-13	16		252						
2013	10-Jan-13	17		245.2						
2013	10-Jan-13	18		219.6						
2013	10-Jan-13	19		203.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	10-Jan-13	20		178.8						
2013	10-Jan-13	21		114.8						
2013	10-Jan-13	22		109.7						
2013	10-Jan-13	23		177.8						
2013	11-Jan-13	0		425.8						
2013	11-Jan-13	1		438.3						
2013	11-Jan-13	2		471.9						
2013	11-Jan-13	3		495.1						
2013	11-Jan-13	4		487.9						
2013	11-Jan-13	5		518.8						
2013	11-Jan-13	6		561.8						
2013	11-Jan-13	7		488.8						
2013	11-Jan-13	8		477.6						
2013	11-Jan-13	9		450.3						
2013	11-Jan-13	10		539.7						
2013	11-Jan-13	11		308.3						
2013	11-Jan-13	12		269.6						
2013	11-Jan-13	13		305.4						
2013	11-Jan-13	14		580.1						
2013	11-Jan-13	15		526.6						
2013	11-Jan-13	16		568.5						
2013	11-Jan-13	17		443						
2013	11-Jan-13	18		479.1						
2013	11-Jan-13	19		493.1						
2013	11-Jan-13	20		405.4						
2013	11-Jan-13	21		400.6						
2013	11-Jan-13	22		471.2						
2013	11-Jan-13	23		448.5						
2013	12-Jan-13	0		606.9						
2013	12-Jan-13	1		552.3						
2013	12-Jan-13	2		221.1						
2013	12-Jan-13	3		186.6						
2013	12-Jan-13	4		192						
2013	12-Jan-13	5		156.9						
2013	12-Jan-13	6		190.9						
2013	12-Jan-13	7		142						
2013	12-Jan-13	8		97.8						
2013	12-Jan-13	9		100.9						
2013	12-Jan-13	10		175.8						
2013	12-Jan-13	11		117						
2013	12-Jan-13	12		124.4						
2013	12-Jan-13	13		80.8						
2013	12-Jan-13	14		106.5						
2013	12-Jan-13	15		96.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	12-Jan-13	16		120.7						
2013	12-Jan-13	17		109.7						
2013	12-Jan-13	18		81.4						
2013	12-Jan-13	19		67.2						
2013	12-Jan-13	20		57.4						
2013	12-Jan-13	21		46						
2013	12-Jan-13	22		47.8						
2013	12-Jan-13	23		40.5						
2013	13-Jan-13	0		40.5						
2013	13-Jan-13	1		36.8						
2013	13-Jan-13	2		27.4						
2013	13-Jan-13	3		26.3						
2013	13-Jan-13	4		28.7						
2013	13-Jan-13	5		28.5						
2013	13-Jan-13	6		24.7						
2013	13-Jan-13	7		40.6						
2013	13-Jan-13	8		13.4						
2013	13-Jan-13	9		12.3						
2013	13-Jan-13	10		28						
2013	13-Jan-13	11		32.5						
2013	13-Jan-13	12		39.3						
2013	13-Jan-13	13		100.6						
2013	13-Jan-13	14		6.8						
2013	13-Jan-13	15		8						
2013	13-Jan-13	16		12.5						
2013	13-Jan-13	17		17.6						
2013	13-Jan-13	18		24.3						
2013	13-Jan-13	19		20.6						
2013	13-Jan-13	20		41.8						
2013	13-Jan-13	21		36.1						
2013	13-Jan-13	22		59.6						
2013	13-Jan-13	23		63.3						
2013	14-Jan-13	0		104.8						
2013	14-Jan-13	1		85.6						
2013	14-Jan-13	2		112.1						
2013	14-Jan-13	3		91.2						
2013	14-Jan-13	4		134.1						
2013	14-Jan-13	5		114.5						
2013	14-Jan-13	6		148.5						
2013	14-Jan-13	7		132.8						
2013	14-Jan-13	8		41.4						
2013	14-Jan-13	9		41.4						
2013	14-Jan-13	10		109.1						
2013	14-Jan-13	11		87.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	14-Jan-13	12		117		0				
2013	14-Jan-13	13		81		0				
2013	14-Jan-13	14		111.5		10.4				
2013	14-Jan-13	15		164.1		4.1				
2013	14-Jan-13	16		397.3		2.1				
2013	14-Jan-13	17		833.3		0				
2013	14-Jan-13	18		1117.9		0				
2013	14-Jan-13	19		1003.1		0	0			
2013	14-Jan-13	20		994.3		0	0			
2013	14-Jan-13	21		992		0	116.7			
2013	14-Jan-13	22		714.1		0	285.6			
2013	14-Jan-13	23		414.9		0	457.2			
2013	15-Jan-13	0		297.5		0	365.3			
2013	15-Jan-13	1		353.8		0	269.6			
2013	15-Jan-13	2		270.4		0	259.3			
2013	15-Jan-13	3		234.2		0	258.8			
2013	15-Jan-13	4		303.6		0	291.2			
2013	15-Jan-13	5		214.2		0	352.4			
2013	15-Jan-13	6		411.9		0	611.2			
2013	15-Jan-13	7		1053.9		15.5	1361.8			
2013	15-Jan-13	8		1016.8		3.6	1577.2			
2013	15-Jan-13	9		552.6		0	1956.8			
2013	15-Jan-13	10		464.1		0	2204.3			
2013	15-Jan-13	11		321.5		0	2353.5			
2013	15-Jan-13	12		222.9		0	2359.2			
2013	15-Jan-13	13		268.2		0	2210.3			
2013	15-Jan-13	14		202.8		0	2189.4			
2013	15-Jan-13	15		353.8		0	2301			
2013	15-Jan-13	16		371.6		0	2428.2			
2013	15-Jan-13	17		292.6		0	2267.6			
2013	15-Jan-13	18		398.2		0	2602.4			
2013	15-Jan-13	19		229.2		0	2831.5			
2013	15-Jan-13	20		188.2		0	2648.4			
2013	15-Jan-13	21		254.6		0	2200.8			
2013	15-Jan-13	22		223.6		0	1888.2			
2013	15-Jan-13	23		256.7		0	1913.7			
2013	16-Jan-13	0		314.1		0	1853.7			
2013	16-Jan-13	1		197.2		0	1852.2			
2013	16-Jan-13	2		270.6		0	1840.9			
2013	16-Jan-13	3		222.2			1807.1			
2013	16-Jan-13	4		209.7			1810.6			
2013	16-Jan-13	5		146.1			1853.9			
2013	16-Jan-13	6		275.6			2258.7			
2013	16-Jan-13	7		327.8			2299.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Jan-13	8		245.6			2437			
2013	16-Jan-13	9		195.5			2501.6			
2013	16-Jan-13	10		213.4			2471.8			
2013	16-Jan-13	11		210.5			2474.3			
2013	16-Jan-13	12		185.1			2514.4			
2013	16-Jan-13	13		279.1			2529.8			
2013	16-Jan-13	14		223.6			2515			
2013	16-Jan-13	15		295.1			2540.6			
2013	16-Jan-13	16		224			2540.9			
2013	16-Jan-13	17		366.6			2540			
2013	16-Jan-13	18		437.4			2552.6			
2013	16-Jan-13	19		333.6		0	2494.2			
2013	16-Jan-13	20		356.4		0	2276.1			
2013	16-Jan-13	21		232		10.4	1995.4			
2013	16-Jan-13	22		246.1		3.5	1761.5			
2013	16-Jan-13	23		233.1		0	1740.3			
2013	17-Jan-13	0		210.8		0	1735.8			
2013	17-Jan-13	1		205.6		0	1735.3			
2013	17-Jan-13	2		196.4		0	1684.3			
2013	17-Jan-13	3		170.2		0	1665.7			
2013	17-Jan-13	4		197.7		0	1669.5			
2013	17-Jan-13	5		176.5		0	1719.6			
2013	17-Jan-13	6		218.5		0	1975.3			
2013	17-Jan-13	7		178.6		13.6	1759.9			
2013	17-Jan-13	8		162.5		0.4	1723.9			
2013	17-Jan-13	9		153		0	1771.1			
2013	17-Jan-13	10		205.1		0	1689.1			
2013	17-Jan-13	11		164.4		0	1682.4			
2013	17-Jan-13	12		217.4		0	1682.4			
2013	17-Jan-13	13		159.9		0	1699.3			
2013	17-Jan-13	14		200.5		0	1676.8			
2013	17-Jan-13	15		157.6		0	1647.9			
2013	17-Jan-13	16		221.9		0	1832.3			
2013	17-Jan-13	17		221.1		0	2016.7			
2013	17-Jan-13	18		270.8		0	2330.2			
2013	17-Jan-13	19		190.5		0	2251.2			
2013	17-Jan-13	20		214.2		0	2108.4			
2013	17-Jan-13	21		137.4		0	2050.5			
2013	17-Jan-13	22		209.9		0	1635.5			
2013	17-Jan-13	23		196		0	1558.8			
2013	18-Jan-13	0		198.1		0	1556.2			
2013	18-Jan-13	1		196.2		0	1568.5			
2013	18-Jan-13	2		220.5		0	1550.4			
2013	18-Jan-13	3		180.1		0	1546.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	18-Jan-13	4		205.6		0	1550.7			
2013	18-Jan-13	5		181.2		0	1544			
2013	18-Jan-13	6		235.2		0	1789.1			
2013	18-Jan-13	7		259.6		13.3	2023.7			
2013	18-Jan-13	8		193.7		2.3	2299.4			
2013	18-Jan-13	9		156		0	2065			
2013	18-Jan-13	10		258.4		0	1787.8			
2013	18-Jan-13	11		164		0	1712.9			
2013	18-Jan-13	12		191.6		0	1582.8			
2013	18-Jan-13	13		157.2		0	1599.3			
2013	18-Jan-13	14		130		0	1642.7			
2013	18-Jan-13	15		174.1		0	1666.3			
2013	18-Jan-13	16		190.7		0	1672.8			
2013	18-Jan-13	17		218.5		0	1774.4			
2013	18-Jan-13	18		235.6		0	2137.1			
2013	18-Jan-13	19		168.2		0	2234.6			
2013	18-Jan-13	20		336.2		0	2310.5			
2013	18-Jan-13	21		168.8		0	2274.5			
2013	18-Jan-13	22	0	238.6		0	2271.6			
2013	18-Jan-13	23	0	195.7		0	2024.7			
2013	19-Jan-13	0	0	260.5		0	2160.6			
2013	19-Jan-13	1	0	226.8		0	2203.9			
2013	19-Jan-13	2	0	331.8		0	2343.6			
2013	19-Jan-13	3	0	330.7		0	2343.5			
2013	19-Jan-13	4	0	369.1		0	2292.1			
2013	19-Jan-13	5	0	273.2		0	2167.4			
2013	19-Jan-13	6	0	290.7		0	1940.4			
2013	19-Jan-13	7	0	206.1		18.9	1866.7			
2013	19-Jan-13	8	0	219.6		5.1	2084			
2013	19-Jan-13	9	0	236.7		0	2073.7			
2013	19-Jan-13	10	0	238.9		0	2093.4			
2013	19-Jan-13	11	0	234.8		0	1815.4			
2013	19-Jan-13	12	0	249.5		0	1624.4			
2013	19-Jan-13	13	0	213.8		0	1584.9			
2013	19-Jan-13	14	0	260.3		0	1588.1			
2013	19-Jan-13	15	0	222.9		0	1585.1			
2013	19-Jan-13	16	0	255.3		0	1588.4			
2013	19-Jan-13	17	0	220.6		0	1640.8			
2013	19-Jan-13	18	0	246.8		0	1588.6			
2013	19-Jan-13	19	0	182.6		0	1619.2			
2013	19-Jan-13	20	0	226.4		0	1603.7			
2013	19-Jan-13	21	0	192		0	1593.7			
2013	19-Jan-13	22	0	227.1		0	1596.8			
2013	19-Jan-13	23	0	191.6		0	1592.9			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	20-Jan-13	0	0	210.4		0	1589.3			
2013	20-Jan-13	1	0	188.1		0	1583.1			
2013	20-Jan-13	2	0	208.3		0	1585.4			
2013	20-Jan-13	3	0	174.5		0	1586.4			
2013	20-Jan-13	4	5.8	202.8		0	1578.3			
2013	20-Jan-13	5	27.3	169		0	1586.8			
2013	20-Jan-13	6	28.9	198.9		0	1581.2			
2013	20-Jan-13	7	52.2	150.4		15.9	1562.7			
2013	20-Jan-13	8	121.4	80.6		2	1574.9			
2013	20-Jan-13	9	222.5	92.6		0	1572.5			
2013	20-Jan-13	10	388.7	178.7		0	1563.7			
2013	20-Jan-13	11	379.8	163.1		0	1566			
2013	20-Jan-13	12	373.1	191.3		0	1568.4			
2013	20-Jan-13	13	288.1	160		0	1550.6			
2013	20-Jan-13	14	449.9	60.1		0	1553.1			
2013	20-Jan-13	15	268.8	94.4		0	1547.5			
2013	20-Jan-13	16	316.2	135.6		0	1572.3			
2013	20-Jan-13	17	451.5	126.3		0	1598			
2013	20-Jan-13	18	293.9	166.6		0	1633.7			
2013	20-Jan-13	19	130	132.1		0	1631.7			
2013	20-Jan-13	20	57.9	107.6		0	1688.3			
2013	20-Jan-13	21	26.6	57.8		0	1672.4			
2013	20-Jan-13	22	26.8	80.1		0	1695.3			
2013	20-Jan-13	23	38	101.6		0	1710.9			
2013	21-Jan-13	0	49.6	154.5		0	1720.3			
2013	21-Jan-13	1	49.5	116		0	1743.9			
2013	21-Jan-13	2	16.4	167.6		0	1783.5			
2013	21-Jan-13	3	11.9	133.1		0	1873.7			
2013	21-Jan-13	4	17.3	191.1		0	1825.7			
2013	21-Jan-13	5	35.6	148.4		0	1895.9			
2013	21-Jan-13	6	26.8	204.6		0	1971.6			
2013	21-Jan-13	7	38.7	147.7			2094.8			
2013	21-Jan-13	8	32.7	96			2467.5			
2013	21-Jan-13	9	31.3	109.2			2729.2			
2013	21-Jan-13	10	28.7	254.6			2932.7			
2013	21-Jan-13	11	22.1	206			2842.6			
2013	21-Jan-13	12	28.6	307.7			2663.1		0	1.7
2013	21-Jan-13	13	54.7	451.3			2819.4		0	5.7
2013	21-Jan-13	14	32	342.7		16.7	2715.8		0	1.2
2013	21-Jan-13	15	20	233		9.2	2310		22.4	1.4
2013	21-Jan-13	16	39.5	490.7		1.1	2312.3		76.5	6.4
2013	21-Jan-13	17	93.6	881.5		0	2780.5		101.1	3.3
2013	21-Jan-13	18	63.9	1036.1		0	2972.2		65	1.1
2013	21-Jan-13	19	58.5	1152.1		0	3014.9		72.9	1.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	21-Jan-13	20	121.2	822.1		0	3009.9		69.8	1.4
2013	21-Jan-13	21	116.2	618		0	2792.6		70.2	1.5
2013	21-Jan-13	22	45	341.5		0	2579.1		67.2	1.5
2013	21-Jan-13	23	38.1	136.6		0	2194.5		63.7	1.1
2013	22-Jan-13	0	82.6	292.8		0	2318.9		68.6	4.4
2013	22-Jan-13	1	112.1	273.3		0	2307.9		70.1	57.8
2013	22-Jan-13	2	98	240.7		0	2273.4		78.3	141.8
2013	22-Jan-13	3	78.1	187		0	2401.5		106	199.2
2013	22-Jan-13	4	138.7	275.1		4.5	2597		147.2	173.5
2013	22-Jan-13	5	218.4	252.5		193.3	2824.8		161.9	156.3
2013	22-Jan-13	6	262.5	550.5		578.4	3087.1		177.3	143.3
2013	22-Jan-13	7	384.6	642.9		1173.4	3057.9		203.5	143.6
2013	22-Jan-13	8	526.2	526		1604.9	3074.9		270.7	140.7
2013	22-Jan-13	9	478.8	879.5		2095.4	3068		360.1	133.3
2013	22-Jan-13	10	498.3	1444.3		2228.6	3032.8		418.8	133.5
2013	22-Jan-13	11	519.6	1520.1		2256.9	2995.8		409.3	151.5
2013	22-Jan-13	12	752.5	1721.3		2036.8	2961.9		457.1	157.2
2013	22-Jan-13	13	835.6	888.6		1908.8	2952		472.6	243
2013	22-Jan-13	14	601.5	590.9		1624	2856.2		472.2	398.2
2013	22-Jan-13	15	467.1	421.4		1545	2742.9		468.6	382.4
2013	22-Jan-13	16	421.5	264.4		1491.7	2594		475.3	380.8
2013	22-Jan-13	17	627.9	266.3		2097.8	2900.1		513.9	375.5
2013	22-Jan-13	18	573.2	264.7		2245.9	3058.9		546.4	375.8
2013	22-Jan-13	19	602.8	376.1		2243.4	3021		546.8	366.4
2013	22-Jan-13	20	761.3	426.1		2229.3	3057.9		531.2	367.7
2013	22-Jan-13	21	841.2	413.5		2246.9	3086.4		537.4	363
2013	22-Jan-13	22	755.6	308.5		2159.5	3097.2		518.3	368.3
2013	22-Jan-13	23	766.8	360.7		1968.5	3129.4		538.1	368.9
2013	23-Jan-13	0	931.5	515.6		2155.4	3172.3		540.2	364.2
2013	23-Jan-13	1	1063	486.2		2278.2	3187.7		535.8	363.9
2013	23-Jan-13	2	1063.4	405.4		2201.7	3179		533.7	356
2013	23-Jan-13	3	1034.7	427.7		2133.5	3153.4		527.5	363.3
2013	23-Jan-13	4	1003.9	435		2249.1	3146.2		535.1	364.7
2013	23-Jan-13	5	1014.8	444.5		2225.2	3184.3		536.4	360.7
2013	23-Jan-13	6	979.1	423.5		2196.8	3195.6		547.6	360.2
2013	23-Jan-13	7	833.9	387.9		2159.3	3175.2		562.4	352.8
2013	23-Jan-13	8	838.7	239.6		2092.1	3212.3		656.3	297.2
2013	23-Jan-13	9	975.9	345.1		2047.6	3192.1		697.9	370.1
2013	23-Jan-13	10	1004.9	452.1		2081.3	3166.2		684.2	401.7
2013	23-Jan-13	11	1078.8	492.8		2064.4	3176.3		673.4	370.1
2013	23-Jan-13	12	1188.9	460.5		2070	3226.7		644.3	344
2013	23-Jan-13	13	1175.2	434		2058.1	3253.9		637.9	355.3
2013	23-Jan-13	14	1105.4	249.2		1855.2	3208.6		603.4	356.5
2013	23-Jan-13	15	1055.9	329.2		2086.1	3254		643.1	351.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	23-Jan-13	16	1036.6	351.9		2119.2	3179.7		662.1	491.9
2013	23-Jan-13	17	1057.7	439		2067.3	3121.3		660.4	443.6
2013	23-Jan-13	18	1235	472.7		2237.7	3123.2		660.9	570.8
2013	23-Jan-13	19	1318.6	586.3		2262.6	3137.2		645.9	650.3
2013	23-Jan-13	20	1446.8	689.9		2251.7	3133.4		629.9	671.8
2013	23-Jan-13	21	1691.7	570.3		2232.2	3142.7		646.3	739.2
2013	23-Jan-13	22	1773.5	627.3		1961.6	3067.5		603.5	733.7
2013	23-Jan-13	23	897.5	665.5		1836.6	3126		611.1	643
2013	24-Jan-13	0	794.8	612.8		1654.1	3106		538.7	633.6
2013	24-Jan-13	1	607	517.7		1064.4	2926		457.2	591.1
2013	24-Jan-13	2	365.9	263.8		616.6	2876.4		444.7	473
2013	24-Jan-13	3	226.4	310.3		554.4	2968.6		450	473.1
2013	24-Jan-13	4	254.4	303.2		549.1	2767.2		469.1	476.5
2013	24-Jan-13	5	538.8	322.5		821.2	2906		507.1	571.7
2013	24-Jan-13	6	995.9	832		1541.1	3140.5		621.6	703.9
2013	24-Jan-13	7	1086.9	618.1		2216	3153.8		648.4	739
2013	24-Jan-13	8	982.2	412.5		2204.8	3202		650.7	727.3
2013	24-Jan-13	9	1067.6	544.3		2113.2	3180.5		629	688.2
2013	24-Jan-13	10	1143.9	531.1		2027.1	3176.3		652.5	637.3
2013	24-Jan-13	11	1204.1	655		2122	3134		630.7	680.5
2013	24-Jan-13	12	1130.5	633		2163.8	3156.7		633.2	669.6
2013	24-Jan-13	13	1070.1	668.2		2122.4	3171.4		627.9	644.2
2013	24-Jan-13	14	1007.5	552		2108.3	3131.7		636.9	502
2013	24-Jan-13	15	963.1	618.2		1740.5	2979.8		547.9	442.2
2013	24-Jan-13	16	1048.3	617.2		1612	2915.4		481.3	439.4
2013	24-Jan-13	17	1111.4	678.1		1985.2	3097.4		607.8	580.2
2013	24-Jan-13	18	1050.3	572.7		2093.9	3138.5		659.8	705.7
2013	24-Jan-13	19	1031.8	690.7		2071.9	3142.6		662	716.4
2013	24-Jan-13	20	1049.8	690.5		2092.6	3131.7		643.7	710.2
2013	24-Jan-13	21	1078.6	772.2		2070.6	3138		645.7	713.9
2013	24-Jan-13	22	1040.9	706.1		2085.8	3150.7		646.4	695
2013	24-Jan-13	23	1017.9	718.8		2094	3148.4		671.9	722.7
2013	25-Jan-13	0	1017	612.1		2098.3	3120.5		680	732.1
2013	25-Jan-13	1	1065.5	513.7		2105.1	3123.3		671.1	731.5
2013	25-Jan-13	2	1063.7	592.9		2139.1	3146.3		656.2	720
2013	25-Jan-13	3	1036.3	444.3		2101.1	3138		650.2	684.7
2013	25-Jan-13	4	1036.5	729.4		2105.1	3134.2		669.5	716.9
2013	25-Jan-13	5	1031.8	682.5		2145.3	3205.2		669.3	698.5
2013	25-Jan-13	6	987.6	716.5		2131.2	3235.3		662.8	695.1
2013	25-Jan-13	7	825.9	559.2		2176.8	3215.2		647.5	693.3
2013	25-Jan-13	8	829.9	304.1		2109.2	3248.8		643.9	693.6
2013	25-Jan-13	9	895.3	391.8		2055.2	3251.6		637.1	686.6
2013	25-Jan-13	10	898.6	464.9		2114.3	3220.5		639.1	691.1
2013	25-Jan-13	11	879.7	648.1		2095	3219.3		636.5	613.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	25-Jan-13	12	830.9	626.6		2101	3184.4		660.7	699.5
2013	25-Jan-13	13	827.7	684.3		2116.6	3201.7		662	708.9
2013	25-Jan-13	14	883.4	628		2104.1	3178.4		649.3	704.2
2013	25-Jan-13	15	989.1	686.7		2079.2	3162.2		649.9	699.1
2013	25-Jan-13	16	1220.2	551.8		2052.4	3140.5		657.8	713
2013	25-Jan-13	17	1263.9	649.3		2051.6	3115.5		647.2	719.6
2013	25-Jan-13	18	1381.9	633.2		2156.2	3114.5		644.7	719
2013	25-Jan-13	19	1523.1	646.5		2139.4	3080.5		660.3	718.8
2013	25-Jan-13	20	1570.8	594.4		2169	3074.4		651.4	719.8
2013	25-Jan-13	21	1602.3	642.4		2102.2	3069.5		640.6	708.4
2013	25-Jan-13	22	1293.3	551.4		112.04	3067.1		519.2	558.4
2013	25-Jan-13	23	1193.7	620.7			2975.9		500.9	539.5
2013	26-Jan-13	0	1075.5	420.7	0.04		2890.2		507.2	532.2
2013	26-Jan-13	1	1338.4	573.6	0.062		2973.2		512.8	612.6
2013	26-Jan-13	2	1089.1	479.7	0.064		2779.1		487.5	507.2
2013	26-Jan-13	3	768.1	421.6	0.064		2595.9		490.2	390.5
2013	26-Jan-13	4	464.6	534.8	0.064		2552.2		483.7	382.5
2013	26-Jan-13	5	458.1	389.1	0.064		2573.5		473.1	388.1
2013	26-Jan-13	6	306.9	752.7	0.064		2527.2		448	392.4
2013	26-Jan-13	7	459	671	0.064		2548.3		447	386.4
2013	26-Jan-13	8	708.2	549.7	0.064		2648.8		475.7	451.7
2013	26-Jan-13	9	686.6	664.5	0.064		2749.3		482.6	442.4
2013	26-Jan-13	10	414.7	1122.3	0.064		2759.7		472.9	472.2
2013	26-Jan-13	11	376.7	632.1	0.064		2401		463.7	417.8
2013	26-Jan-13	12	455.1	575.6	0.064		2003.4		476	129.795
2013	26-Jan-13	13	455.8	275.6	0.064		1856		465.8	80.5
2013	26-Jan-13	14	276.7	305.1	0.064		1907		465.1	303
2013	26-Jan-13	15	207.2	108.9	0.064		1985.6		458.9	413.2
2013	26-Jan-13	16	246.3	160.1	0.064		1849.2		471.6	392.6
2013	26-Jan-13	17	312.8	190.7	0.064		1908.1		472.9	410
2013	26-Jan-13	18	413.8	316.2	0.064		2177.4		520.3	529.2
2013	26-Jan-13	19	209.3	318.9	0.064		2419.6		479.6	386
2013	26-Jan-13	20	281.2	246.8	0.064		2557.1		504.4	378.2
2013	26-Jan-13	21	256.2	105.6	0.064		2405.6		481.8	381.2
2013	26-Jan-13	22	183.4	523.4	0.064		2290.8		482.3	383.9
2013	26-Jan-13	23	158.2	411.3	0.064		2177.2		483.1	389.4
2013	27-Jan-13	0	180.2	710.8	0.064		2245.4		490.5	389.5
2013	27-Jan-13	1	218.9	346.1	0.064		2338.5		476.6	388.5
2013	27-Jan-13	2	187.5	236.2	0.064		2265.3		473.6	389.4
2013	27-Jan-13	3	145.9	191.9	0.06		2261.4		471.2	374.6
2013	27-Jan-13	4	179.9	230.3	0.05		2284.4		470.2	374.2
2013	27-Jan-13	5	224.9	274.4	0.06		2437.9		467.3	381.8
2013	27-Jan-13	6	208.3	262.6	0.064		2500.8		487.3	374.7
2013	27-Jan-13	7	174.9	204.9	0.064		2402.8		477.8	380.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Jan-13	8	198.1	146.1	0.064		2505.2		492	378
2013	27-Jan-13	9	202.7	133.1	0.06		2412.4		465.2	375
2013	27-Jan-13	10	117.4	180.3	0.052		2105.5		465.6	378.9
2013	27-Jan-13	11	83.6	99.4	0.064		1947.1		462.6	376.5
2013	27-Jan-13	12	204.3	116	0.064		1892.2		467.1	377.1
2013	27-Jan-13	13	167.9	105.4	0.059		1871.8		467.1	380.1
2013	27-Jan-13	14	184.1	37.8	0.051		1882.1		493.2	379.1
2013	27-Jan-13	15	110.3	44.2	0.051		1876.9		484.9	376.5
2013	27-Jan-13	16	172.8	69.3	0.051		2328.4		560.9	508.9
2013	27-Jan-13	17	444.6	253.3	0.051		3080.8		664.1	650.8
2013	27-Jan-13	18	121.1	206.2	0.06		2975.1		589.7	637.5
2013	27-Jan-13	19	101.2	158.1	0.064		2684.9		492.1	539.7
2013	27-Jan-13	20	189.8	213.2	0.064		2425.5		497	470.7
2013	27-Jan-13	21	206.9	104.8	0.064		2327.4		477.6	434.8
2013	27-Jan-13	22	159.6	130.2	0.051		2082.6		455.8	442.7
2013	27-Jan-13	23	156.1	80.5	0.051		1901.2		443	438.5
2013	28-Jan-13	0	178.8	103.8	0.051		1882.5		444.8	445.1
2013	28-Jan-13	1	217.1	95.4	0.051		1884.3		447.8	448.3
2013	28-Jan-13	2	189	92.5	0.051		1963.3		456.3	454
2013	28-Jan-13	3	161.1	79.8	0.051		1970.2		454.8	453.5
2013	28-Jan-13	4	139.2	64	0.051		1967.3		453.2	455.1
2013	28-Jan-13	5	337.3	88.3	0.051		1901.9		478.8	459.9
2013	28-Jan-13	6	550.2	93.8	0.051		1901.2		462.8	455.1
2013	28-Jan-13	7	687.1	195	0.051		2069.7		456.8	453.6
2013	28-Jan-13	8	653.5	147.4	0.051		2278.9		453.9	444
2013	28-Jan-13	9	653.2	336.5	0.051		2482.2		450.5	441
2013	28-Jan-13	10	555.3	419	0.051		2570.2		467.2	447.4
2013	28-Jan-13	11	644.1	424.4	0.051		2749.9		474.5	452.5
2013	28-Jan-13	12	739.7	500.9	0.051		2421.2		463.2	445.8
2013	28-Jan-13	13	868.1	455	0.051		2224.4		469.3	450.4
2013	28-Jan-13	14	626.2	335	0.051		2012		475.6	453.2
2013	28-Jan-13	15	753.7	341.7	0.051		1935.5		606.8	443.7
2013	28-Jan-13	16	1209.2	906.7	0.051		1892.8		493.1	436.3
2013	28-Jan-13	17	869.2	1069.3	0.051		1914.1		624.9	442.3
2013	28-Jan-13	18	845.9	1044.1	0.051		2071.6		861.6	451.7
2013	28-Jan-13	19	816.3	943.1	0.058		1910.1		645.8	457.6
2013	28-Jan-13	20	889.1	931.9	0.064		1918.4		492.4	462.5
2013	28-Jan-13	21	682.8	938.5	0.064		1908.6		474.6	457.6
2013	28-Jan-13	22	306.7	403	0.064		1903.3		510.4	465.2
2013	28-Jan-13	23	260.2	220.4	0.064		1902.2		371.6	464.4
2013	29-Jan-13	0	239.6	376.4	0.064		608.65		69.188	461
2013	29-Jan-13	1	265	291.2	0.064					461.6
2013	29-Jan-13	2	235.1	227	0.064					464.4
2013	29-Jan-13	3	216.3	228	0.064					466.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	29-Jan-13	4	236.2	251.7	0.064					472.7
2013	29-Jan-13	5	435.8	433.3	0.064					478.1
2013	29-Jan-13	6	744.8	954.9	0.064					475.8
2013	29-Jan-13	7	1170.7	861	0.064					476.9
2013	29-Jan-13	8	937.2	282.8	0.064					453.3
2013	29-Jan-13	9	530.3	264.6	0.064					470.7
2013	29-Jan-13	10	185.7	432.6	0.064					418.2
2013	29-Jan-13	11	175.7	720.5	0.059					407
2013	29-Jan-13	12	241.4	564.7	0.011					438.7
2013	29-Jan-13	13	320.1	462.3						430.6
2013	29-Jan-13	14	313.1	376.9						456.3
2013	29-Jan-13	15	243.2	398.6						445.6
2013	29-Jan-13	16	246.4	428.4						452.9
2013	29-Jan-13	17	312.1	436.8						413.1
2013	29-Jan-13	18	308.6	371.1						403.2
2013	29-Jan-13	19	317.4	237						401.1
2013	29-Jan-13	20	215.5	210.6						451.2
2013	29-Jan-13	21	162.8	225.7						462.2
2013	29-Jan-13	22	134	209.5						397.4
2013	29-Jan-13	23	107.1	196.2						421.7
2013	30-Jan-13	0	123.5	202.9						410.6
2013	30-Jan-13	1	141.7	197.5						342.8
2013	30-Jan-13	2	121	223.2						178.9
2013	30-Jan-13	3	133.3	215.6						201.5
2013	30-Jan-13	4	152	190.8						72.288
2013	30-Jan-13	5	180.2	199.1						
2013	30-Jan-13	6	174.4	200.1						
2013	30-Jan-13	7	149.5	151.7						
2013	30-Jan-13	8	109.9	96.7						
2013	30-Jan-13	9	101.4	105.4						
2013	30-Jan-13	10	91.4	158.3						
2013	30-Jan-13	11	88.5	188.1						
2013	30-Jan-13	12	83.6	190.3						
2013	30-Jan-13	13	117.2	192.4						
2013	30-Jan-13	14	147.6	221.3						
2013	30-Jan-13	15	103.8	227.6						
2013	30-Jan-13	16	133.2	248.1						
2013	30-Jan-13	17	203.3	254.4						
2013	30-Jan-13	18	230.5	245.7						
2013	30-Jan-13	19	168	226.6						
2013	30-Jan-13	20	192.6	205.5						
2013	30-Jan-13	21	239.7	215.4						
2013	30-Jan-13	22	119.6	174.6						
2013	30-Jan-13	23	177.4	185.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	31-Jan-13	0	183.7	172.1						
2013	31-Jan-13	1	150.8	176.2						
2013	31-Jan-13	2	215.5	174.4						
2013	31-Jan-13	3	205.5	186						
2013	31-Jan-13	4	246.3	179.2						
2013	31-Jan-13	5	288.3	496.3						
2013	31-Jan-13	6	228.7	1427.3						
2013	31-Jan-13	7	213	697.1						
2013	31-Jan-13	8	158.9	328.7						
2013	31-Jan-13	9	137.3	488.9						
2013	31-Jan-13	10	130	572.7						
2013	31-Jan-13	11	239.6	519.4						
2013	31-Jan-13	12	164.7	520.8						
2013	31-Jan-13	13	160.4	465.6						
2013	31-Jan-13	14	123.8	729.4						
2013	31-Jan-13	15	125.8	692.8						
2013	31-Jan-13	16	160.1	711						
2013	31-Jan-13	17	215	760.1	0.059					
2013	31-Jan-13	18	243.9	747.5	0.061					
2013	31-Jan-13	19	346.2	729.9	0.064					
2013	31-Jan-13	20	317.8	557.9	0.065					
2013	31-Jan-13	21	394	572.8	0.071					
2013	31-Jan-13	22	538.8	222	0.081		0			
2013	31-Jan-13	23	841.7	151.8	0.078		0			
2013	1-Feb-13	0	579.6	89.3	0.064		326.6			
2013	1-Feb-13	1	254.4	167.2	0.075		319.4			
2013	1-Feb-13	2	204.9	181.9	0.076		320.5			
2013	1-Feb-13	3	110.6	135.4	0.076		352.4			
2013	1-Feb-13	4	105	179.1	0.068		409.5			
2013	1-Feb-13	5	354.1	490.8	0.064		507			
2013	1-Feb-13	6	530.2	574.1	0.064		712.6			
2013	1-Feb-13	7	680.1	595.7	0.064		1493.6			
2013	1-Feb-13	8	608.8	326.5	0.041		1683.6			
2013	1-Feb-13	9	625.8	441.7			2019.2			
2013	1-Feb-13	10	669.1	500.8	0.04		2280.3			
2013	1-Feb-13	11	478.7	542	0.05		2685.6			
2013	1-Feb-13	12	226.6	433.1	0.05		2879.1			
2013	1-Feb-13	13	162.4	347	0.05		2658.3			
2013	1-Feb-13	14	159.3	347.2	0.05		2657.5			
2013	1-Feb-13	15	226.1	362.2	0.05		2642.7			
2013	1-Feb-13	16	216	278.4	0.05		2550.6			
2013	1-Feb-13	17	312.2	431.5	0.05		2835.8			
2013	1-Feb-13	18	682.9	487.1	0.05		3125.4			
2013	1-Feb-13	19	775.4	618.1	0.05		3198.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	1-Feb-13	20	739.9	582.2	0.05		3211.2			
2013	1-Feb-13	21	620.9	741.1	0.05		3212			
2013	1-Feb-13	22	646.2	582	0.044		3227.2			
2013	1-Feb-13	23	696.7	770.4			3223.4			
2013	2-Feb-13	0	581.7	397.1			3003.4			
2013	2-Feb-13	1	439.1	284.7	0.024		3044.2			
2013	2-Feb-13	2	441.3	350.5	0.045		3025.3			
2013	2-Feb-13	3	683.2	629.9	0.057		3182.7			
2013	2-Feb-13	4	735.9	468	0.064		3147.8			
2013	2-Feb-13	5	529.9	407.7	0.064		2952.1			
2013	2-Feb-13	6	365.9	190.3	0.064		2756.4			
2013	2-Feb-13	7	469.7	256.4	0.064		2785.4			
2013	2-Feb-13	8	566.1	156.1	0.064		2891.6			
2013	2-Feb-13	9	421	212.3	0.064		2816.4			
2013	2-Feb-13	10	327.2	184.6	0.064		2822			
2013	2-Feb-13	11	163.3	213.7	0.064		2631.4			
2013	2-Feb-13	12	328	105.6	0.064		2716.2			
2013	2-Feb-13	13	402.8	92.6	0.064		2676.7			
2013	2-Feb-13	14	185.4	129.7	0.064		2471.8			
2013	2-Feb-13	15	203.9	48	0.064		2120.4			
2013	2-Feb-13	16	521.3	115.1	0.064		2019.6			
2013	2-Feb-13	17	385.6	247.8	0.064		2153.8			
2013	2-Feb-13	18	500.6	412	0.064		2164			
2013	2-Feb-13	19	933.5	897.7	0.064		2312.8			
2013	2-Feb-13	20	750	874	0.064		2278.4			
2013	2-Feb-13	21	302.8	736.1	0.064		2214.1			
2013	2-Feb-13	22	324.6	185.6	0.064		2065.5			
2013	2-Feb-13	23	268	152.4	0.064		1992.3			
2013	3-Feb-13	0	250.8	387.4	0.064		1934.9			
2013	3-Feb-13	1	319	323.1	0.064		1958.8			
2013	3-Feb-13	2	220.5	349.5	0.064		1944.3			
2013	3-Feb-13	3	205.6	356.8	0.064		1911.6			
2013	3-Feb-13	4	198	219.9	0.064		1916.9			
2013	3-Feb-13	5	245.7	163.8	0.064		1951.2			
2013	3-Feb-13	6	227.7	226.4	0.064		1950			
2013	3-Feb-13	7	247.4	228.5	0.064		2004.1			
2013	3-Feb-13	8	319.2	184	0.064		2211.6			
2013	3-Feb-13	9	630.2	340	0.064		2774.6			
2013	3-Feb-13	10	1014	1129	0.058	0.087	3012.3			
2013	3-Feb-13	11	833.1	1104.5	0.036	0.1	2921.5			
2013	3-Feb-13	12	679	734.9		0	2707.7			
2013	3-Feb-13	13	416.5	600.2		0	2637.5			
2013	3-Feb-13	14	335.2	252.9		0	2382.6			
2013	3-Feb-13	15	189.4	91.3		0	2052.6			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	3-Feb-13	16	238.2	186.7		0	2022.7			
2013	3-Feb-13	17	447.8	312.8		0	2108.3			
2013	3-Feb-13	18	389.2	621.1		0	2406.5			
2013	3-Feb-13	19	284	605.1		0	2463.4			
2013	3-Feb-13	20	424	551.6		0	2623.8			
2013	3-Feb-13	21	555.4	522.9		0	2537.3			
2013	3-Feb-13	22	466.2	267.5		0	2367.1			
2013	3-Feb-13	23	326.9	190.3		0	2118.7			
2013	4-Feb-13	0	347.8	171.9		0	1925.7			
2013	4-Feb-13	1	401.4	176.1		0	1843.1			
2013	4-Feb-13	2	291.8	191.8		0	1833.3			
2013	4-Feb-13	3	213.1	195.4		0	1856.3			
2013	4-Feb-13	4	377.9	225.6		284.4	1872.6			
2013	4-Feb-13	5	552.9	630.9		488.4	1934			
2013	4-Feb-13	6	690.7	1007.2		655.4	2240.9			
2013	4-Feb-13	7	710.8	1277.4		705	2749.9			
2013	4-Feb-13	8	426	1219.2		646.1	2841.5			
2013	4-Feb-13	9	231.9	959.4		524.8	2859.8			
2013	4-Feb-13	10	156.4	776.5		531.5	2903.2			
2013	4-Feb-13	11	124.7	581.5		536.1	2839.4			
2013	4-Feb-13	12	175.8	490.1		537.1	2732.4			
2013	4-Feb-13	13	214.2	568.8		541.2	2622.6			
2013	4-Feb-13	14	162.9	475.3		532.8	2564.3			
2013	4-Feb-13	15	214.9	754.4		689.5	2719.5			
2013	4-Feb-13	16	647	860.7		1370.4	3129.1			
2013	4-Feb-13	17	759.4	863.4		1846.5	3147.3			
2013	4-Feb-13	18	646.7	944.9		1991.7	3183.9			
2013	4-Feb-13	19	735.4	1048.3		1999.4	3184.3			
2013	4-Feb-13	20	605.9	910.4		1812.8	3189.7			
2013	4-Feb-13	21	479.9	871.8		1164	2968.6			
2013	4-Feb-13	22	698.8	630.5		583.1	2643.5			
2013	4-Feb-13	23	255.1	615.8		523.7	2233.2			
2013	5-Feb-13	0	83.9	389.4		533.3	1922.1			
2013	5-Feb-13	1		279.8		522.4	1882.4			
2013	5-Feb-13	2		386.2		523	1826			
2013	5-Feb-13	3		340.1		520	1797.8			
2013	5-Feb-13	4		296.6		519	1818			
2013	5-Feb-13	5		240.1		524.4	1824.9			
2013	5-Feb-13	6		399.6		630.1	1982.6			
2013	5-Feb-13	7		375.7		545.5	2329			
2013	5-Feb-13	8		331.6		539	2369.5			
2013	5-Feb-13	9		331.9		524.4	2277.1			
2013	5-Feb-13	10		330.6		519.6	2610			
2013	5-Feb-13	11		275.4		520.1	2653			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Feb-13	12		242.1		522.3	2414			
2013	5-Feb-13	13		143		527.8	2288.6			
2013	5-Feb-13	14		256.3		532.1	2168			
2013	5-Feb-13	15		302.4		536.9	2071.3			
2013	5-Feb-13	16		311.2		536.4	2060.1			
2013	5-Feb-13	17		385.6		1001.3	2517.7			
2013	5-Feb-13	18		660.6		1959.1	3003.6			
2013	5-Feb-13	19		686.2		1601.7	2805.2			
2013	5-Feb-13	20		580.8		1392.8	2914.4			
2013	5-Feb-13	21		425.5		807.1	2610.1			
2013	5-Feb-13	22		338.4		570.2	2189			
2013	5-Feb-13	23		204.9		593.2	1939.7			
2013	6-Feb-13	0		196.5		564.6	1837.4			
2013	6-Feb-13	1		133.8		556.7	1817.8			
2013	6-Feb-13	2		177.7		551.5	1792.3			
2013	6-Feb-13	3		197		548.5	1783.2			
2013	6-Feb-13	4		202.5		550.1	1785.2			
2013	6-Feb-13	5		181.4		543.2	1898.3			
2013	6-Feb-13	6		219.6		543.9	2102.6			
2013	6-Feb-13	7		207.6		774.8	2470.7			
2013	6-Feb-13	8		133		552.5	2329			
2013	6-Feb-13	9		158.4		544.9	2258.5			
2013	6-Feb-13	10		108.5		544.8	2151.2			
2013	6-Feb-13	11		122.5		539.2	1917.8			
2013	6-Feb-13	12		173.5		538.1	1811			
2013	6-Feb-13	13		179.9		534.7	1760.6			
2013	6-Feb-13	14		186.6		536.6	1754.6			
2013	6-Feb-13	15		184.6		537.5	1753.2			
2013	6-Feb-13	16		203.6		542.2	1757.2			
2013	6-Feb-13	17		262		613.4	1869.9			
2013	6-Feb-13	18		405.3		983.6	2069.3			
2013	6-Feb-13	19		1146.6		759.1	2087.9			
2013	6-Feb-13	20		1261.2		580.4	2232.1			
2013	6-Feb-13	21		1089.1		574.3	2237.3			
2013	6-Feb-13	22		428.6		562	1876.5			
2013	6-Feb-13	23		181		569.2	1765.3			
2013	7-Feb-13	0		312.5		573.2	1928.3			
2013	7-Feb-13	1		243.1		572.5	1872.7			
2013	7-Feb-13	2		224.2		569.8	1819			
2013	7-Feb-13	3		205		568.6	1834.8			
2013	7-Feb-13	4		199.8		566.9	1863.7			
2013	7-Feb-13	5		196.1		561.7	1983.6			
2013	7-Feb-13	6		197.5		561.3	2165.1			
2013	7-Feb-13	7		275.4		747	2547.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	7-Feb-13	8		217.6		575.7	2549.2			
2013	7-Feb-13	9		281.7		558.6	2542			
2013	7-Feb-13	10		214.9		580.9	2549.5			
2013	7-Feb-13	11		183.7		583	2285.9			
2013	7-Feb-13	12		319.4		561.9	2042.6			
2013	7-Feb-13	13		340.2		550	1820.6			
2013	7-Feb-13	14		243.9		545.2	1876			
2013	7-Feb-13	15		271.1		536.2	1867.8			
2013	7-Feb-13	16		223.9		534.7	1940.4			
2013	7-Feb-13	17		214.9		534.9	1983.2			
2013	7-Feb-13	18		241.3		623	2310.3			
2013	7-Feb-13	19		257.5		522.5	2580.2			
2013	7-Feb-13	20		220.8		526.2	2415.3			
2013	7-Feb-13	21		223.4		525	2066.3			
2013	7-Feb-13	22		219.9		525.6	1925.8			
2013	7-Feb-13	23		226.5		528.2	1914.4			
2013	8-Feb-13	0		212.3		530.1	1914.6			
2013	8-Feb-13	1		225.6		528	1978.1			
2013	8-Feb-13	2		223.8		531.2	1936.7			
2013	8-Feb-13	3		225.2		530.8	1962.5			
2013	8-Feb-13	4		195.6		531.6	2023.4			
2013	8-Feb-13	5		212.8		532.2	2088.8			
2013	8-Feb-13	6		210.8		529.3	2333			
2013	8-Feb-13	7		229.4		551.9	2601.7			
2013	8-Feb-13	8		102.4		550.8	2676.4			
2013	8-Feb-13	9		98.1		526.7	2745.7			
2013	8-Feb-13	10		98.9		564.9	2860.8			
2013	8-Feb-13	11		193.7		781.9	2995			
2013	8-Feb-13	12		177.8		649.7	2713.6			
2013	8-Feb-13	13		106.2		513.7	2659.9			
2013	8-Feb-13	14		188.1		523.9	2697.5			
2013	8-Feb-13	15		222.8		528.9	2701.5			
2013	8-Feb-13	16		332		527.3	2616			
2013	8-Feb-13	17		813.4		529.3	2384			
2013	8-Feb-13	18		1116		554.5	2677.5			
2013	8-Feb-13	19		1220.3		520.9	2743			
2013	8-Feb-13	20		517.8		522.2	2584.6			
2013	8-Feb-13	21		220.3		522.6	2534.6			
2013	8-Feb-13	22		212.1		526.8	2206.7			
2013	8-Feb-13	23		372.5		530.3	2178			
2013	9-Feb-13	0		661.4		538.2	2168.2			
2013	9-Feb-13	1		611.4		545.2	2184.3			
2013	9-Feb-13	2		627.9		559.6	2184.5			
2013	9-Feb-13	3		660.5		579.9	2185.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	9-Feb-13	4		635.9		594.3	2074.5			
2013	9-Feb-13	5		634.9		610.4	2092.4			
2013	9-Feb-13	6		620.2		620.7	2246.6			
2013	9-Feb-13	7		671.9		656.7	2333.5			
2013	9-Feb-13	8		408.4		653.7	2531.6			
2013	9-Feb-13	9		442.7		656.2	2969.8			
2013	9-Feb-13	10		368.7		660.6	2925			
2013	9-Feb-13	11		370.3		662	2581.1			
2013	9-Feb-13	12		399.3		672.4	2284.9			
2013	9-Feb-13	13		207.7		675.4	2069.2			
2013	9-Feb-13	14		412.7		675.5	2081.7			
2013	9-Feb-13	15		292		682.2	2088.1			
2013	9-Feb-13	16		370.3		684.2	2099.2			
2013	9-Feb-13	17		278.3		690.6	2133.3			
2013	9-Feb-13	18		564.7		1126.3	2479.6			
2013	9-Feb-13	19		380.2		1237.5	2527.4			
2013	9-Feb-13	20		362.9		925.9	2731.3			
2013	9-Feb-13	21		214.8		666.9	2769			
2013	9-Feb-13	22		251		663.9	2483			
2013	9-Feb-13	23		185.7		666.9	2303.8			
2013	10-Feb-13	0		230.6		668.6	2298.1			
2013	10-Feb-13	1		209.1		664.9	2519.2			
2013	10-Feb-13	2		199.8		664.3	2437.4			
2013	10-Feb-13	3		171		668.4	2553.8			
2013	10-Feb-13	4		150.2		666.8	2511.3			
2013	10-Feb-13	5		140.8		667.4	2582.4			
2013	10-Feb-13	6		134.3		663.9	2702			
2013	10-Feb-13	7		180.3		834.7	3254.4			
2013	10-Feb-13	8		130.4		682.4	3405.7			
2013	10-Feb-13	9		120.4		666.3	3332.6			
2013	10-Feb-13	10		79		672.9	3029.4			
2013	10-Feb-13	11		89		670	2586			
2013	10-Feb-13	12		113.4		679.6	2407.6			
2013	10-Feb-13	13		79.8		688	2272.1			
2013	10-Feb-13	14		35.4		692.3	2222.1			
2013	10-Feb-13	15		45.1		698.9	2229.6			
2013	10-Feb-13	16		54.3		703.3	2259.5			
2013	10-Feb-13	17		63.4		705.8	2358.7			
2013	10-Feb-13	18		85		704.9	2637.3			
2013	10-Feb-13	19		92.7		698	2715.1			
2013	10-Feb-13	20		122.3		700	2526			
2013	10-Feb-13	21		47.1		700.9	2279.1			
2013	10-Feb-13	22		137.5		710.4	2256.1			
2013	10-Feb-13	23		191.8		712	2218.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	11-Feb-13	0		178.4		713	2213.7			
2013	11-Feb-13	1		159.5		717.1	2209.2			
2013	11-Feb-13	2		216.9		719.3	2204			
2013	11-Feb-13	3		325.1		722.1	2200.9			
2013	11-Feb-13	4		351.7		724	2193.2			
2013	11-Feb-13	5		467		1140.2	2549.6			
2013	11-Feb-13	6		809.4		1758.5	3416.7			
2013	11-Feb-13	7		1052		989.5	3039.3			
2013	11-Feb-13	8		459.1		758.1	2854.7			
2013	11-Feb-13	9		546.7		737.4	2763.9			
2013	11-Feb-13	10		328.1		651.9	2613.8			
2013	11-Feb-13	11		288.6		636.1	2660.6			
2013	11-Feb-13	12		315.8		612.1	2190.6			
2013	11-Feb-13	13		243.3		616.6	2044.4			
2013	11-Feb-13	14		165.8		619.2	2169.6			
2013	11-Feb-13	15		79.7		684.4	2147.1			
2013	11-Feb-13	16		121.4		763.1	2173.6			
2013	11-Feb-13	17		100.9		727.1	2321.4			
2013	11-Feb-13	18		134.1		730.6	2696.6			
2013	11-Feb-13	19		109.2		731	2417.7			
2013	11-Feb-13	20		136.5		725.4	2327.3			
2013	11-Feb-13	21		137.8		725.7	2197.8			
2013	11-Feb-13	22		122.7		725.5	2204.9			
2013	11-Feb-13	23		88.8		717.4	2190.2			
2013	12-Feb-13	0		144.1		721.7	2228.5			
2013	12-Feb-13	1		149.1		718.2	2208.5			
2013	12-Feb-13	2		112		710.7	2186.5			
2013	12-Feb-13	3		94.3		710.7	2193.9			
2013	12-Feb-13	4		126.3		712.6	2212.9			
2013	12-Feb-13	5		183.4		713.8	2185.5			
2013	12-Feb-13	6		336.7		765.4	2398.5			
2013	12-Feb-13	7		703.9		715.7	2608.6			
2013	12-Feb-13	8		318.2		707.4	2588.9			
2013	12-Feb-13	9		410.2		696.3	2333.6			
2013	12-Feb-13	10		446.1		689.6	2197.8			
2013	12-Feb-13	11		749.6		683.6	2195.1			
2013	12-Feb-13	12		780.5		683	2188.8			
2013	12-Feb-13	13		924		688.4	2184.6			
2013	12-Feb-13	14		700.6		688.5	2180.3			
2013	12-Feb-13	15		629.6		698	2188.6			
2013	12-Feb-13	16		871.8		701.4	2194.9			
2013	12-Feb-13	17		698.4		708.9	2195.1			
2013	12-Feb-13	18		705.1		772.5	2566.4			
2013	12-Feb-13	19		585.2		707.8	2638.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	12-Feb-13	20		423.4		708.1	2646.2			
2013	12-Feb-13	21		243.8		710.5	2534.2			
2013	12-Feb-13	22		275.3		697.5	2298.9			
2013	12-Feb-13	23		261.3		661.8	2272.7			
2013	13-Feb-13	0		388.8		14.2	1882.6			
2013	13-Feb-13	1		359.9		0	88.218			
2013	13-Feb-13	2		367.6		0				
2013	13-Feb-13	3		237.7		0				
2013	13-Feb-13	4		406.7		0				
2013	13-Feb-13	5		355.7		0				
2013	13-Feb-13	6		427.9		0				
2013	13-Feb-13	7		630.5						
2013	13-Feb-13	8		130.1						
2013	13-Feb-13	9		132.9						
2013	13-Feb-13	10		77.1						
2013	13-Feb-13	11		120.4						
2013	13-Feb-13	12		140.4						
2013	13-Feb-13	13		62.2						
2013	13-Feb-13	14		153.6						
2013	13-Feb-13	15		68						
2013	13-Feb-13	16		51.2						
2013	13-Feb-13	17		85						
2013	13-Feb-13	18		102.3						
2013	13-Feb-13	19		152.6						
2013	13-Feb-13	20		173.4						
2013	13-Feb-13	21		174.8						
2013	13-Feb-13	22		69						
2013	13-Feb-13	23		19.7						
2013	14-Feb-13	0		21						
2013	14-Feb-13	1		28.8						
2013	14-Feb-13	2		57.7						
2013	14-Feb-13	3		76.5						
2013	14-Feb-13	4		207.9						
2013	14-Feb-13	5		189.9						
2013	14-Feb-13	6		208.5						
2013	14-Feb-13	7		168.1						
2013	14-Feb-13	8		253						
2013	14-Feb-13	9		217.7						
2013	14-Feb-13	10		205.7						
2013	14-Feb-13	11		111.7						
2013	14-Feb-13	12		222						
2013	14-Feb-13	13		113.2						
2013	14-Feb-13	14		232.5						
2013	14-Feb-13	15		214.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	14-Feb-13	16		238.4						
2013	14-Feb-13	17		266.4						
2013	14-Feb-13	18		285.5						
2013	14-Feb-13	19		247.9						
2013	14-Feb-13	20		298.4						
2013	14-Feb-13	21		165						
2013	14-Feb-13	22		235.4						
2013	14-Feb-13	23		241.5						
2013	15-Feb-13	0		216.7						
2013	15-Feb-13	1		216.5						
2013	15-Feb-13	2		225.8						
2013	15-Feb-13	3		205.4						
2013	15-Feb-13	4		181.6						
2013	15-Feb-13	5		209.5						
2013	15-Feb-13	6		279.7						
2013	15-Feb-13	7		593.1						
2013	15-Feb-13	8		404.5						
2013	15-Feb-13	9		244.9						
2013	15-Feb-13	10		227.8						
2013	15-Feb-13	11		203						
2013	15-Feb-13	12		178.1						
2013	15-Feb-13	13		188.1						
2013	15-Feb-13	14		190.4	0.043					
2013	15-Feb-13	15		186.9	0.079					
2013	15-Feb-13	16		212.5	0.086					
2013	15-Feb-13	17		161.3	0.086					
2013	15-Feb-13	18		234.1	0.078					
2013	15-Feb-13	19		256.6	0.065					
2013	15-Feb-13	20		202.2	0.065					
2013	15-Feb-13	21		258.1	0.065					
2013	15-Feb-13	22		171.1	0.065					
2013	15-Feb-13	23		185.6	0.064					
2013	16-Feb-13	0		195.4	0.051					
2013	16-Feb-13	1		417.7	0.051					
2013	16-Feb-13	2	0	278.9	0.051					
2013	16-Feb-13	3	0	165.5	0.051					
2013	16-Feb-13	4	0	247.9	0.051					
2013	16-Feb-13	5	0	209.7	0.051					
2013	16-Feb-13	6	0	252.4	0.051					
2013	16-Feb-13	7	0	226.9	0.051					
2013	16-Feb-13	8	0	141	0.051					
2013	16-Feb-13	9	0	164.7	0.051					
2013	16-Feb-13	10	0	255.9	0.05					
2013	16-Feb-13	11	0	352.9	0.05					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Feb-13	12	0	91.4	0.05					
2013	16-Feb-13	13	0	94.6	0.05					
2013	16-Feb-13	14	0	65.2	0.01					
2013	16-Feb-13	15	0	77.9						
2013	16-Feb-13	16	0	107.8	0.027					
2013	16-Feb-13	17	0	81.9	0.073					
2013	16-Feb-13	18	0	171.3	0.072					
2013	16-Feb-13	19	0	205.3	0.064					
2013	16-Feb-13	20	0	258.6	0.064					
2013	16-Feb-13	21	0	239	0.064					
2013	16-Feb-13	22	0	259.8	0.061					
2013	16-Feb-13	23	0	192.1	0.051					
2013	17-Feb-13	0	0	276.5	0.051					
2013	17-Feb-13	1	0	391	0.051					
2013	17-Feb-13	2	0	388.7	0.051					
2013	17-Feb-13	3	0	421.9	0.051					
2013	17-Feb-13	4	0	383.2	0.051					
2013	17-Feb-13	5	0	405	0.051					
2013	17-Feb-13	6	0	337.9	0.051					
2013	17-Feb-13	7	1.4	279.3	0.051					
2013	17-Feb-13	8	0	672.7	0.051					
2013	17-Feb-13	9	0	874.5	0.051					
2013	17-Feb-13	10	0	613.1	0.051					
2013	17-Feb-13	11	0	576.8	0.051					
2013	17-Feb-13	12	33.7	1010.7	0.051					
2013	17-Feb-13	13	4.6	1243.9	0.051					
2013	17-Feb-13	14	40.6	440.1	0.051					
2013	17-Feb-13	15	57.2	404.3	0.051					
2013	17-Feb-13	16	96	373.9	0.051					
2013	17-Feb-13	17	377.1	321.9	0.051					
2013	17-Feb-13	18	187.1	430.7	0.053					
2013	17-Feb-13	19	105.6	664.4	0.064					
2013	17-Feb-13	20	104.9	731.2	0.065					
2013	17-Feb-13	21	179.6	832.4	0.065					
2013	17-Feb-13	22	157.8	765.9	0.065					
2013	17-Feb-13	23	125.7	716.5	0.065					
2013	18-Feb-13	0	189.9	575.8	0.065					
2013	18-Feb-13	1	270.5	475	0.065					
2013	18-Feb-13	2	251.3	470.7	0.065					
2013	18-Feb-13	3	270.5	681.1	0.065					
2013	18-Feb-13	4	714.6	654.3	0.065					
2013	18-Feb-13	5	762.7	812.3	0.065					
2013	18-Feb-13	6	486.9	744.2	0.065					
2013	18-Feb-13	7	411.5	684.9	0.065					



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	18-Feb-13	8	378.6	627.6	0.065					
2013	18-Feb-13	9	446.8	686.6	0.065					
2013	18-Feb-13	10	543.7	671.2	0.065					
2013	18-Feb-13	11	457.5	939.3	0.07					
2013	18-Feb-13	12	446.1	497.8	0.078				0	1.606
2013	18-Feb-13	13	608.7	315.5	0.078	5.175			0	7.5
2013	18-Feb-13	14	328.1	238.6	0.078	14.6	0		0	1.9
2013	18-Feb-13	15	317.3	263.1	0.078	2.3	0		0	1.9
2013	18-Feb-13	16	314.7	430.4	0.07	0	144.8		0	1.9
2013	18-Feb-13	17	750	442.9	0.077	0	311.9		0	1.8
2013	18-Feb-13	18	916.5	759.2	0.077	0	447		6.3	1.8
2013	18-Feb-13	19	504.1	521	0.077	0	448.3		45.1	1.6
2013	18-Feb-13	20	706.2	770.8	0.078	0	400.7		57	1.6
2013	18-Feb-13	21	554.8	511.4	0.077	0	396.1		38.8	1.6
2013	18-Feb-13	22	359.4	589.5	0.077	0	398		58.5	1.6
2013	18-Feb-13	23	252.3	411.4	0.077	0	403.3		63.5	1.6
2013	19-Feb-13	0	324	414.2	0.077	0	412		67.6	1.4
2013	19-Feb-13	1	443.5	281.8	0.077	0	414.8		64.8	1.2
2013	19-Feb-13	2	373	405.4	0.077	144.3	520.8		65.6	1.5
2013	19-Feb-13	3	263.2	378.2	0.077	496.3	1189.3		65.6	143.2
2013	19-Feb-13	4	412.2	414.3	0.067	616.6	1931.5		68.6	830.8
2013	19-Feb-13	5	999.7	582.4	0.036	554.3	2247.6		69	1079.9
2013	19-Feb-13	6	1066.3	965.5	0.036	605.5	2536.6		86.4	1865.9
2013	19-Feb-13	7	841.8	819.1	0.011	581.2	2884.8		80.3	2093.2
2013	19-Feb-13	8	458.6	616.1		570.1	3205.7		104.5	2344.4
2013	19-Feb-13	9	318.9	694.2		520.8	3478.6		131.6	2747.4
2013	19-Feb-13	10	206.5	744.2		594.3	3770.6		215.3	687.1
2013	19-Feb-13	11	220.8	867.3		660.7	3860.1		336.7	338.7
2013	19-Feb-13	12	259.5	678.6		504.6	3700.2		419.3	908
2013	19-Feb-13	13	294.1	623.5		501	3542.3		476.9	1931.4
2013	19-Feb-13	14	205.4	354		511	3227.9		391.8	2238.6
2013	19-Feb-13	15	221.1	233.5		509.5	3019.7		458.5	2309.6
2013	19-Feb-13	16	714.9	318.4		927.7	3288.3		517	1143.6
2013	19-Feb-13	17	789.4	370.5		2249.3	3959.2		669.4	940.4
2013	19-Feb-13	18	838.9	295.7		2353.3	4136.5		661.3	1475.5
2013	19-Feb-13	19	731.2	268		1825.3	4022.3		636	1345.1
2013	19-Feb-13	20	598.9	565		1391.6	3901.7		659.1	841.2
2013	19-Feb-13	21	507.6	671.3		1008.6	3812.4		620.3	1158.3
2013	19-Feb-13	22	245.6	352.4		691.5	3229.4		484	889.2
2013	19-Feb-13	23	204.1	272.9		669.6	2637.3		457.7	583.1
2013	20-Feb-13	0	406.8	524.1		669.5	2544.5		455.4	431
2013	20-Feb-13	1	434.6	186.1		668.8	2414.3		443.2	403.6
2013	20-Feb-13	2	324.4	18.13		666.5	2427.7		436.6	395.9
2013	20-Feb-13	3	305.8			664.7	2426.9		428.1	392.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	20-Feb-13	4	385.9			662.3	2482		437.7	393.4
2013	20-Feb-13	5	797.7			662.8	2495		441.1	405.6
2013	20-Feb-13	6	887.5			869.8	2920.5		493.3	559
2013	20-Feb-13	7	844.6			1600.3	3555.6		656.5	715.9
2013	20-Feb-13	8	655.1			1288.9	3946.6		683.9	745.8
2013	20-Feb-13	9	650.3			858.9	4125.8		693.9	595.9
2013	20-Feb-13	10	899.8			1274.7	4219		680.6	423.5
2013	20-Feb-13	11	826.1			1780.7	4220.1		672.4	464.7
2013	20-Feb-13	12	795.2			1710.1	4159.8		599.7	443.1
2013	20-Feb-13	13	664.1			1348.4	3992.1		532.8	923.4
2013	20-Feb-13	14	280			804.1	3684.9		426.5	659.3
2013	20-Feb-13	15	116.7			659.3	3274		431.2	422.9
2013	20-Feb-13	16	273.1			1494.6	3363.4		533.5	642.9
2013	20-Feb-13	17	823.5			2386.8	3957.3		806.7	1429.5
2013	20-Feb-13	18	1002.2			2498.3	4143.6		1026.2	1453.7
2013	20-Feb-13	19	1089			2519.2	4145.3		1120.8	1637
2013	20-Feb-13	20	1125.2			2521	4155.5		1138.1	1662.1
2013	20-Feb-13	21	1285.2			2371.2	4167.7		1155.2	1680.3
2013	20-Feb-13	22	1030.7			1821.3	4007.7		1045.4	2156.1
2013	20-Feb-13	23	850.9			1239.7	3893.7		1012.4	2183
2013	21-Feb-13	0	770.8			739.6	3811.6		905.9	2143.7
2013	21-Feb-13	1	614.7			675.8	3549.4		718	2044.8
2013	21-Feb-13	2	686.5			680.6	3148.1		663.5	1897.3
2013	21-Feb-13	3	544.8			686.7	2902.2		732.9	1839.9
2013	21-Feb-13	4	711.7			683.6	2903.6		941.2	2120.1
2013	21-Feb-13	5	656.7			730.9	3366.4		1108	2228.9
2013	21-Feb-13	6	1014.8			1468.9	3626.6		1061.4	1866.4
2013	21-Feb-13	7	1185.7			2270.6	3916.1		1160.1	2217.3
2013	21-Feb-13	8	1209.2			2291.3	3944.8		1601.5	2056.2
2013	21-Feb-13	9	1184.7			2242.9	3983.4		1513.6	1913.6
2013	21-Feb-13	10	1204			2414.2	4062.8		749.1	1826.7
2013	21-Feb-13	11	1164.3			2082.7	4010.5		698.1	1863.4
2013	21-Feb-13	12	553.6			1469.7	3688		592.4	1941.6
2013	21-Feb-13	13	462			1012.2	3586		514.9	1835.3
2013	21-Feb-13	14	269.1			687.1	3434.3		455.3	1829.8
2013	21-Feb-13	15	114.3			678.6	3097.4		385.6	1528.2
2013	21-Feb-13	16	319.7			1582.1	3073.5		484.2	743.2
2013	21-Feb-13	17	984.7			2835.4	3604.3		721	493.9
2013	21-Feb-13	18	1245.6			2824.7	4005		665	487.1
2013	21-Feb-13	19	1307.8			2939.8	4056.1		640.7	941.1
2013	21-Feb-13	20	1197			2715	3965.1		733.1	1443.4
2013	21-Feb-13	21	857.2			2018.4	3712.3		853.5	1222.9
2013	21-Feb-13	22	495.3			1298.4	3155.5		809	1158.3
2013	21-Feb-13	23	183.1			726.5	3013.9		666.4	796.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	22-Feb-13	0	290.7			680.6	2482.3		494.7	1227.1
2013	22-Feb-13	1	517.1			675	2348.2		527.8	654.8
2013	22-Feb-13	2	407.9			673.1	2285.5		546	920.9
2013	22-Feb-13	3	323.6			669.1	2314.7		512.2	588.3
2013	22-Feb-13	4	361.1			670.1	2329.3		471.1	577.9
2013	22-Feb-13	5	500.7			672	2287.7		474.7	589.1
2013	22-Feb-13	6	607.1			672.4	2477.1		503.4	651.6
2013	22-Feb-13	7	683.5			733.2	3003		634.3	576
2013	22-Feb-13	8	1066.3			689.5	3589.2		869.8	633.9
2013	22-Feb-13	9	480.4			704.2	3660.1		917.2	1122.1
2013	22-Feb-13	10	462.9			793.9	3790.7		1224.6	1185.6
2013	22-Feb-13	11	422			725.9	3772.3		1161.1	2389
2013	22-Feb-13	12	411.9			683.2	3419.5		938.1	1382.4
2013	22-Feb-13	13	357.3			690.4	3342.5		831.6	1430.1
2013	22-Feb-13	14	218.3			691.6	3162.4		587.2	782.5
2013	22-Feb-13	15	151.5			697.8	3095.6		472.7	660.1
2013	22-Feb-13	16	321.1			991.8	3538.8		605.4	927.3
2013	22-Feb-13	17	623			2511.3	3905.8		693.2	722.4
2013	22-Feb-13	18	1026			2627.5	3967.6		673.3	912.4
2013	22-Feb-13	19	1002			2562.8	3962.6		637	1369
2013	22-Feb-13	20	621.8			1757.2	3639.5		501.8	506.8
2013	22-Feb-13	21	167.8			1210.9	3095.8		466.4	375.6
2013	22-Feb-13	22	175.2			727.2	2583.9		427.4	375.3
2013	22-Feb-13	23	84.4			679.2	2185.2		441.8	371
2013	23-Feb-13	0	175.4			674.7	1921.5		402.9	588.7
2013	23-Feb-13	1	317.8			700.4	1226.4		270.4	636.31
2013	23-Feb-13	2	180.9			679.5			69.96	
2013	23-Feb-13	3	101.5			677.2				
2013	23-Feb-13	4	106.3			668.8				
2013	23-Feb-13	5	216.8			667.8				
2013	23-Feb-13	6	548.9			666.3				
2013	23-Feb-13	7	620			761.7				
2013	23-Feb-13	8	783.1			735				
2013	23-Feb-13	9	692.5			640.7				
2013	23-Feb-13	10	516.7			751.5				
2013	23-Feb-13	11	548.8			675.5				
2013	23-Feb-13	12	399.9			640.6				
2013	23-Feb-13	13	471			647.8				
2013	23-Feb-13	14	454.2			648.1				
2013	23-Feb-13	15	281.5			647.9				
2013	23-Feb-13	16	221.7	0		651				
2013	23-Feb-13	17	240.6	0		648.8				
2013	23-Feb-13	18	259.2	0		656				
2013	23-Feb-13	19	304.7	0		673.7				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	23-Feb-13	20	277.4	6		642.8				
2013	23-Feb-13	21	298.6	3.4		643.9				
2013	23-Feb-13	22	256.6	0		640.9				
2013	23-Feb-13	23	253.8	0.8		643.7				
2013	24-Feb-13	0	270.7	0		639.9				
2013	24-Feb-13	1	293.8	1.1		634.1				
2013	24-Feb-13	2	289.7	0		639.3				
2013	24-Feb-13	3	260.6	0.9		639.7				
2013	24-Feb-13	4	266.2	0		628.5				
2013	24-Feb-13	5	285.3	0.8		630.4				
2013	24-Feb-13	6	277.1	0		616.1				
2013	24-Feb-13	7	303.6	0.9		870.7				
2013	24-Feb-13	8	269.4	11.3		730.7				
2013	24-Feb-13	9	299	14.2		624.1				
2013	24-Feb-13	10	239.8	15.1		624.7				
2013	24-Feb-13	11	174.6	23.3		620.4				
2013	24-Feb-13	12	305.8	33.8		616.2				
2013	24-Feb-13	13	221.6	84.6		616.9				
2013	24-Feb-13	14	248.2	41.9		618				
2013	24-Feb-13	15	240.7	62.7		624.7				
2013	24-Feb-13	16	289.3	52.2		624.9				
2013	24-Feb-13	17	358.2	65.4		628.1				
2013	24-Feb-13	18	442.7	91.4		1014.4				
2013	24-Feb-13	19	604.1	160.9		1568.8				
2013	24-Feb-13	20	827	222.6		1670.4				
2013	24-Feb-13	21	557.7	445.9		1202.4				
2013	24-Feb-13	22	402.4	418.7		684.3				
2013	24-Feb-13	23	301	448.2		612.3				
2013	25-Feb-13	0	297.7	434.7		613.6				
2013	25-Feb-13	1	340	433.8		608.7				
2013	25-Feb-13	2	250.1	609		607.9				
2013	25-Feb-13	3	238.8	426.7		606.5				
2013	25-Feb-13	4	274.1	285.4		599.6				
2013	25-Feb-13	5	417.4	364.1		739.6				
2013	25-Feb-13	6	1068.3	533.1		1599.4				
2013	25-Feb-13	7	1185.5	1088		2603.1				
2013	25-Feb-13	8	992	1061		2158.6				
2013	25-Feb-13	9	1082.2	970		1561				
2013	25-Feb-13	10	631.3	543.3		1127.8				
2013	25-Feb-13	11	322.6	290.8		682				
2013	25-Feb-13	12	306.7	275		644				
2013	25-Feb-13	13	208.7	242.7		630.9				
2013	25-Feb-13	14	157.8	189.8		634.4				
2013	25-Feb-13	15	147.5	218.8		637.9				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	25-Feb-13	16	219.4	251.5		654.1				
2013	25-Feb-13	17	734.4	636.6		1312.3				
2013	25-Feb-13	18	931.3	821.4		1813.3				
2013	25-Feb-13	19	968.8	941.9		1670.2				
2013	25-Feb-13	20	680.4	799		1040.9				
2013	25-Feb-13	21	437.2	822.8		657.6				
2013	25-Feb-13	22	201.6	753		637.5				
2013	25-Feb-13	23	159.6	653.5		645.4				
2013	26-Feb-13	0	151.2	292.1		646.7				
2013	26-Feb-13	1	142.9	273.7		650.3				
2013	26-Feb-13	2	125.8	195.1		654.4				
2013	26-Feb-13	3	116.2	128.8		651.7				
2013	26-Feb-13	4	108.6	199		650.6				
2013	26-Feb-13	5	164.8	449.4		649.3				
2013	26-Feb-13	6	404.3	694.1		709.5				
2013	26-Feb-13	7	834.7	1106.2		662.8				
2013	26-Feb-13	8	1045.9	909.7		725.8				
2013	26-Feb-13	9	1209.4	1040.1		729.8				
2013	26-Feb-13	10	999.7	1079.6		670.6				
2013	26-Feb-13	11	768.2	1251.3		706.3				
2013	26-Feb-13	12	683.1	1239.1		652.5				
2013	26-Feb-13	13	858.8	1064.3		922.7				
2013	26-Feb-13	14	750.2	1214.8		733.2				
2013	26-Feb-13	15	478	1258.9		646				
2013	26-Feb-13	16	471.8	1300.7		849.8				
2013	26-Feb-13	17	1254.5	1497.3		2039.3				
2013	26-Feb-13	18	1234.6	1545.3		2322.285				
2013	26-Feb-13	19	1391.4	1522						
2013	26-Feb-13	20	876.5	1519						
2013	26-Feb-13	21	596.5	1134.6						
2013	26-Feb-13	22	567.2	692.3						
2013	26-Feb-13	23	363.3	561.6						
2013	27-Feb-13	0	386	302.7						
2013	27-Feb-13	1	556.7	474.6						
2013	27-Feb-13	2	477.6	587.8						
2013	27-Feb-13	3	414.3	628.6						
2013	27-Feb-13	4	419.7	570.1						
2013	27-Feb-13	5	452.2	509.9						
2013	27-Feb-13	6	581.1	1069.2						
2013	27-Feb-13	7	623.5	1281.8						
2013	27-Feb-13	8	394.9	1158.5						
2013	27-Feb-13	9	423.2	1401.4						
2013	27-Feb-13	10	310.1	1365						
2013	27-Feb-13	11	255.9	1482.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Feb-13	12	266	1417.1						
2013	27-Feb-13	13	267.9	1473.4						
2013	27-Feb-13	14	248.7	1470.5						
2013	27-Feb-13	15	234.4	1547.8						
2013	27-Feb-13	16	294.4	1468.5						
2013	27-Feb-13	17	295	1463.6						
2013	27-Feb-13	18	244.7	1512						
2013	27-Feb-13	19	429.3	1504.1						
2013	27-Feb-13	20	609.9	1376.7						
2013	27-Feb-13	21	590.5	978						
2013	27-Feb-13	22	580.8	462.9						
2013	27-Feb-13	23	500.9	360.9						
2013	28-Feb-13	0	417.9	299.2						
2013	28-Feb-13	1	445.7	424.2						
2013	28-Feb-13	2	434.6	448.4						
2013	28-Feb-13	3	398.8	420.3						
2013	28-Feb-13	4	424.1	317.5						
2013	28-Feb-13	5	446.8	296.7						
2013	28-Feb-13	6	447.2	318.2						
2013	28-Feb-13	7	401.6	407.6						
2013	28-Feb-13	8	320.6	341.1						
2013	28-Feb-13	9	342.3	363.4						
2013	28-Feb-13	10	297.7	324						
2013	28-Feb-13	11	267.8	285.1						
2013	28-Feb-13	12	283.7	249.4						
2013	28-Feb-13	13	353.5	244.7						
2013	28-Feb-13	14	397.8	219						
2013	28-Feb-13	15	295.4	223.6						
2013	28-Feb-13	16	300.5	225.6						
2013	28-Feb-13	17	370.3	277.5						
2013	28-Feb-13	18	420	232						
2013	28-Feb-13	19	435.7	292.4						
2013	28-Feb-13	20	607.6	372.8						
2013	28-Feb-13	21	641	373.2						
2013	28-Feb-13	22	516.2	317.7						
2013	28-Feb-13	23	392.9	345.2						
2013	1-Mar-13	0	407.2	326.5						
2013	1-Mar-13	1	432.2	316.5						
2013	1-Mar-13	2	396.3	343						
2013	1-Mar-13	3	365.7	317.2						
2013	1-Mar-13	4	391.8	277.9						
2013	1-Mar-13	5	438.3	272.4						
2013	1-Mar-13	6	502.4	367.1						
2013	1-Mar-13	7	551.6	545.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	1-Mar-13	8	715.4	306.3						
2013	1-Mar-13	9	776.1	348.3						
2013	1-Mar-13	10	740	224.7						
2013	1-Mar-13	11	722.8	278.5						
2013	1-Mar-13	12	791.5	275.7						
2013	1-Mar-13	13	706.8	343.9	0.038					
2013	1-Mar-13	14	683.8	299	0.051					
2013	1-Mar-13	15	689	387.4	0.054					
2013	1-Mar-13	16	713.8	336.9	0.066					
2013	1-Mar-13	17	714.9	417.9	0.066					
2013	1-Mar-13	18	750.1	386.8	0.071					
2013	1-Mar-13	19	941.4	617.7	0.078					
2013	1-Mar-13	20	1075.2	646.8	0.078		0			
2013	1-Mar-13	21	1019.9	577	0.078		215.9			
2013	1-Mar-13	22	838.3	247	0.071		472.7			
2013	1-Mar-13	23	633.5	308.5	0.066		505.2			
2013	2-Mar-13	0	480.2	376.9	0.066		445.1			
2013	2-Mar-13	1	788.5	501.8	0.066		414.3			
2013	2-Mar-13	2	722	519.9	0.051		413.1			
2013	2-Mar-13	3	668.2	582.2	0.051		494.7			
2013	2-Mar-13	4	946.2	652.6	0.073		961.4			
2013	2-Mar-13	5	622.3	473.2	0.076		1782.2			
2013	2-Mar-13	6	487.1	261.6	0.051		2193.3			
2013	2-Mar-13	7	403.8	356.5	0.051		2671.6			
2013	2-Mar-13	8	559.4	432.4	0.051		3288.4			
2013	2-Mar-13	9	1017.1	514	0.051		3729.8			
2013	2-Mar-13	10	981.7	578.3	0.051		3906.1			
2013	2-Mar-13	11	714.6	598.7	0.051		3984.8			
2013	2-Mar-13	12	710.9	562.7	0.051		4038.6			
2013	2-Mar-13	13	548.5	541.8	0.046		4065.1			
2013	2-Mar-13	14	342.2	530.8	0.04		4079.2			
2013	2-Mar-13	15	329.2	542.8			3984.1			
2013	2-Mar-13	16	302.3	536.1			4043.7			
2013	2-Mar-13	17	466.4	572.2			3730.3			
2013	2-Mar-13	18	871.9	544.2			3694.5			
2013	2-Mar-13	19	1184.6	622.2			3629.6			
2013	2-Mar-13	20	725.8	522.2			3522.4			
2013	2-Mar-13	21	897.6	557			3474.1			
2013	2-Mar-13	22	1076.4	472			3343.4			
2013	2-Mar-13	23	1017.9	503.5			3350.1			
2013	3-Mar-13	0	714.2	272.1			3209.2			
2013	3-Mar-13	1	537.9	597.1			3123.7			
2013	3-Mar-13	2	470.2	469.6			3225.1			
2013	3-Mar-13	3	250.7	410.5			2964.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	3-Mar-13	4	186.6	454.1			2799.1			
2013	3-Mar-13	5	207.3	461.2			2696.8			
2013	3-Mar-13	6	318.1	851.8			3447.9			
2013	3-Mar-13	7	587.2	1193.1			3546.8			
2013	3-Mar-13	8	907.9	632.1			3627.3			
2013	3-Mar-13	9	1168.4	759.5			3703.4			
2013	3-Mar-13	10	1179.6	811.9			3667.2			
2013	3-Mar-13	11	1132	755.8			3576.2			
2013	3-Mar-13	12	743.7	609.1			3480.1			
2013	3-Mar-13	13	1044	679.7			3448.7			
2013	3-Mar-13	14	1217.8	561.2			3307.1			
2013	3-Mar-13	15	1103.1	719.1			3445.6			
2013	3-Mar-13	16	1149.7	727.7			3530.3			
2013	3-Mar-13	17	1164.5	901.7			3584			
2013	3-Mar-13	18	1263	847.1			3615.3			
2013	3-Mar-13	19	1307	798.1			3667.4			
2013	3-Mar-13	20	941.7	518			3652.4			
2013	3-Mar-13	21	1279.2	756.3			3695			
2013	3-Mar-13	22	1222	671.9			3635			
2013	3-Mar-13	23	767.7	605.4			3462.8			
2013	4-Mar-13	0	573	475.5			3478.6			
2013	4-Mar-13	1	427.5	426.4			3237.7			
2013	4-Mar-13	2	630.8	606.4			2889.7			
2013	4-Mar-13	3	935.3	900.6			3085.9			
2013	4-Mar-13	4	740.1	887.5			3090.8			
2013	4-Mar-13	5	1032.1	1175.4			3584.3			
2013	4-Mar-13	6	1114.1	1440.1			3687.6			
2013	4-Mar-13	7	1040.6	929.6			3695.4			
2013	4-Mar-13	8	964	631.9			3709.8			
2013	4-Mar-13	9	1181.4	706.5			3664.5			
2013	4-Mar-13	10	1044.7	690			3656.3			
2013	4-Mar-13	11	1074.1	850.8			3572.1			
2013	4-Mar-13	12	945.1	813			3547.8			
2013	4-Mar-13	13	1080.3	901.3			3567.9			
2013	4-Mar-13	14	968.2	803.4			3625.5			
2013	4-Mar-13	15	946.1	820			3673.2			
2013	4-Mar-13	16	920.4	695.8		0	3716.4			
2013	4-Mar-13	17	1078.9	767.8		0	3733.8			
2013	4-Mar-13	18	1150.8	780.9		11.2	3760.3			
2013	4-Mar-13	19	1098.3	910.4		4.2	3771.6			
2013	4-Mar-13	20	1075.4	800.2		0.3	3655.8			
2013	4-Mar-13	21	1090.3	697.5		0	3489.9			
2013	4-Mar-13	22	886.1	400.5		0	3091.5			
2013	4-Mar-13	23	474.3	684.1		0	2702.2			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Mar-13	0	653.7	658.6		0	2392.3			
2013	5-Mar-13	1	620.9	423.4		0	2071.1			
2013	5-Mar-13	2	537.1	394.3		0	1982.2			
2013	5-Mar-13	3	363.9	347.5		0	1977.2			
2013	5-Mar-13	4	339.7	358.4		0	2185.7			
2013	5-Mar-13	5	583.2	579.1		0	2602.3			
2013	5-Mar-13	6	933.4	1324.8		0	3261.4			
2013	5-Mar-13	7	1142.7	1459.4		19.4	3434.5			
2013	5-Mar-13	8	1053.8	735.6		4.2	3474.6			
2013	5-Mar-13	9	984.7	856.4		0	3477.2			
2013	5-Mar-13	10	1066.3	913.4		0	3459			
2013	5-Mar-13	11	1075.4	1029.6		0	3431.3			
2013	5-Mar-13	12	804.3	880.7		0	3202.3			
2013	5-Mar-13	13	606.5	778.3		0	3001.7			
2013	5-Mar-13	14	328.2	566.7		0	2856.9			
2013	5-Mar-13	15	249	546.1		0	3018.5			
2013	5-Mar-13	16	316.2	514.9		0	2961.6			
2013	5-Mar-13	17	419.8	576.7		0	2535.1			
2013	5-Mar-13	18	365.8	511.1		0	2857.9			
2013	5-Mar-13	19	350.3	800.8		0	3176.9			
2013	5-Mar-13	20	355.8	725.1		0	2996.3		0	
2013	5-Mar-13	21	530.7	1003.9		0	3286.9		0	
2013	5-Mar-13	22	379.5	848.4		0	3135.2		0	
2013	5-Mar-13	23	231.2	680.8		0	2923		0	
2013	6-Mar-13	0	242.4	468.7		0	2967		0	
2013	6-Mar-13	1	281.7	646.1		0	3230.1		14.2	
2013	6-Mar-13	2	417.3	858.6		0	3323.9		23.6	
2013	6-Mar-13	3	668.2	1043.6		0	3099.2		29.9	
2013	6-Mar-13	4	928.3	1198.9		0	3363.8		49.9	
2013	6-Mar-13	5	1237.4	1152.1		0	3485.6		41.3	
2013	6-Mar-13	6	1227.1	1131.2		0	3484.4		60.1	
2013	6-Mar-13	7	1066.7	1170		61.4	3688.2		42.7	
2013	6-Mar-13	8	809.2	1053.6		25.1	3733.2		56.4	
2013	6-Mar-13	9	951	1060.4		0	3764		73.3	
2013	6-Mar-13	10	1045.6	1019.1		0	3801.6		59	
2013	6-Mar-13	11	1019.7	845.8		0	3832.6		52.8	
2013	6-Mar-13	12	824.8	552.2		0	3826.3		58.8	
2013	6-Mar-13	13	992.3	549.9		0	3863.1		59.2	
2013	6-Mar-13	14	1014.6	473.3		0	3872.9		60	
2013	6-Mar-13	15	1035.8	546.3		0	3875.3		68.9	
2013	6-Mar-13	16	857.4	476.6		0	3805.1		239.8	
2013	6-Mar-13	17	990.8	478.8		0	3779.6		404.4	
2013	6-Mar-13	18	939.3	420.2		0	3844		345.4	
2013	6-Mar-13	19	950.6	438.4		0	3845.3		505.1	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	6-Mar-13	20	804.5	444.7		0	3766.3		622.4	
2013	6-Mar-13	21	916.4	534.3		0	3863.5		639.5	
2013	6-Mar-13	22	621.8	359.6		0	3629.1		519.2	
2013	6-Mar-13	23	468.4	333.3		0	3319.4		429.7	
2013	7-Mar-13	0	372.7	237.8		0	3214.7		413.1	
2013	7-Mar-13	1	384.3	295.5		0	3053.7		411.5	
2013	7-Mar-13	2	242.3	195.5		0	2687.6		407.6	
2013	7-Mar-13	3	89.7	146		0	2552.6		411.6	
2013	7-Mar-13	4	71.1	123.1		0	2811.3		410.6	
2013	7-Mar-13	5	98.5	159.6		0	2773.2		409.9	
2013	7-Mar-13	6	175.3	207.3		0	3204.4		483.5	
2013	7-Mar-13	7	230	460		17.6	3526.2		496.5	
2013	7-Mar-13	8	233.3	383.4		3.1	3519.3		457.7	
2013	7-Mar-13	9	302.8	438.4		139.2	3604.3		439.7	
2013	7-Mar-13	10	139.7	384.9		515.9	3253.9		437.1	
2013	7-Mar-13	11	160.2	329.3		568.5	3177		431.8	
2013	7-Mar-13	12	186.8	211.3		678	2975.9		427.1	
2013	7-Mar-13	13	221.8	213.9		694.2	2911.4		423	
2013	7-Mar-13	14	192.3	166.9		699.5	2923.9		444.4	
2013	7-Mar-13	15	171.4	200.6		777.2	2850.7		429.8	
2013	7-Mar-13	16	175.1	148		697.4	2802.8		427.1	
2013	7-Mar-13	17	189.2	163.4		749.7	2606.9		472.9	
2013	7-Mar-13	18	154.9	129.2		775	2606.3		506	
2013	7-Mar-13	19	233.4	243.1		959.6	3174		454	
2013	7-Mar-13	20	475.1	296		933.3	3611.7		435.9	
2013	7-Mar-13	21	236.5	305.4		1163.6	3815.4		439.3	
2013	7-Mar-13	22	183.5	183.8		734.7	3492.8		425.8	
2013	7-Mar-13	23	68.5	159.7		685	3118.8		423.5	
2013	8-Mar-13	0	39.4	89.8		703.7	2701.2		420.7	
2013	8-Mar-13	1	44.8	69.9		698.1	2418.2		419	
2013	8-Mar-13	2	32.8	72.8		703.5	2548.9		418.8	
2013	8-Mar-13	3	27.4	54.5		703.7	2662.5		460.7	
2013	8-Mar-13	4	26.2	80.5		708.9	2543.5		468.9	
2013	8-Mar-13	5	40.9	74.1		717.8	2879.3		487.3	
2013	8-Mar-13	6	57.7	101.8		1003.7	3353.1		457.1	
2013	8-Mar-13	7	155.1	64.5		1397.5	3642.5		538.4	
2013	8-Mar-13	8	181.1	116.6		1095.2	3799		473.1	
2013	8-Mar-13	9	418.5	691.2		827.2	3732.8		485.9	
2013	8-Mar-13	10	575.8	868.8		1075.1	3826.6		464.3	
2013	8-Mar-13	11	754.9	636.2		1048.6	3764.5		424.8	
2013	8-Mar-13	12	255.8	451.1		780	3621.1		503.5	
2013	8-Mar-13	13	577.1	713.2		717.8	3503		442.1	
2013	8-Mar-13	14	106.1	514		720.7	3334.1		494.2	
2013	8-Mar-13	15	21.4	334.9		726.6	2896.2		525.4	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	8-Mar-13	16	15	183.7		726.4	2691.7		480.6	
2013	8-Mar-13	17	10.9	84.8		730.3	2559.4		428.9	
2013	8-Mar-13	18	93.2	158.3		948.1	2687		446.1	
2013	8-Mar-13	19	287.6	205		1372.3	3087.8		448.9	
2013	8-Mar-13	20	378.3	362.1		1482.3	3298.8		442	
2013	8-Mar-13	21	521.6	302.5		1027.4	3244		416.5	
2013	8-Mar-13	22	289.1	351.2		754.5	3085.9		400	
2013	8-Mar-13	23	212	391.8		730.4	2763.5		344.7	
2013	9-Mar-13	0	208.9	283.3		48.1	2599.7		272.8	
2013	9-Mar-13	1	268.2	222.2		0	2491.8		34.87	
2013	9-Mar-13	2	300.5	203.8		0	2443.4			
2013	9-Mar-13	3	262.8	238.1		0	2522			
2013	9-Mar-13	4	305.2	287.4		0	2542.6			
2013	9-Mar-13	5	361.6	403		0	2862.2			
2013	9-Mar-13	6	263.9	302		0	3203.7			
2013	9-Mar-13	7	245.4	130.7		23.3	3074.7			
2013	9-Mar-13	8	259	560.5		4.1	3306.1			
2013	9-Mar-13	9	278.7	464.7		0	3098.5			
2013	9-Mar-13	10	239.1	597.1		0	2668.1			
2013	9-Mar-13	11	227.4	521		0	2292.8			
2013	9-Mar-13	12	259	408.4		0	2226.1			
2013	9-Mar-13	13	259.9	285.5		0	2227.7			
2013	9-Mar-13	14	222.9	280.5		0	2215.6			
2013	9-Mar-13	15	174.8	292.9		0	2209.1			
2013	9-Mar-13	16	197.7	310		0	2198.8			
2013	9-Mar-13	17	218.2	290.1		0	2203.3			
2013	9-Mar-13	18	221.5	301.7		0	2337.4			
2013	9-Mar-13	19	226.2	313.1		0	2391.8			
2013	9-Mar-13	20	270.6	269.9		0	2251.4			
2013	9-Mar-13	21	88.1	250.8		0	2226.3			
2013	9-Mar-13	22	71.3	292.8		0	2240.4			
2013	9-Mar-13	23	171.6	175.1		0	2229.4			
2013	10-Mar-13	0	202.8	108.8		0	2281.9			
2013	10-Mar-13	1	250.4	134.7		0	2355.6			
2013	10-Mar-13	2	288.7	282		0	2313.4			
2013	10-Mar-13	3	230.9	237.9		0	2395.8			
2013	10-Mar-13	4	236.8	289.6		0	2637.1			
2013	10-Mar-13	5	268	263.9		0	2755.4			
2013	10-Mar-13	6	246.4	268.2		0	2501.1			
2013	10-Mar-13	7	243.2	226.1		23.4	2389			
2013	10-Mar-13	8	255.4	546.3		7.6	2299.4			
2013	10-Mar-13	9	290.1	716.4		0	2318.3			
2013	10-Mar-13	10	186.3	782.6		0	2328.5			
2013	10-Mar-13	11	160.9	695.9		0	2330			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	10-Mar-13	12	85	577		0	2346.7			
2013	10-Mar-13	13	173.7	664.9		0	2380.9			
2013	10-Mar-13	14	229.5	514.1		0	2329.6			
2013	10-Mar-13	15	392.4	549.4		0	2334.3			
2013	10-Mar-13	16	500.1	560		0	2346.5			
2013	10-Mar-13	17	428.3	534.7		0	2352.8			
2013	10-Mar-13	18	372.8	528.6		0	2531.3			
2013	10-Mar-13	19	304.9	479.3		0	2713.2			
2013	10-Mar-13	20	276.8	397.4		0	2645			
2013	10-Mar-13	21	233.7	337.2		0	2351.2			
2013	10-Mar-13	22	198.2	305.9		0	2326.9			
2013	10-Mar-13	23	186.1	241.3		0	2310.4			
2013	11-Mar-13	0	259.8	243.4		0	2314.7			
2013	11-Mar-13	1	341.6	234.7		0	2305.7			
2013	11-Mar-13	2	287.9	255.1		0	2289.1			
2013	11-Mar-13	3	215.8	189		0	2291.9			
2013	11-Mar-13	4	307.7	174		0	2439.7			
2013	11-Mar-13	5	458.9	294.7		0	3385			
2013	11-Mar-13	6	888.3	627		0	3728.7			
2013	11-Mar-13	7	924.1	1011.1		16.3	3776.7			
2013	11-Mar-13	8	660.8	574.2		1.1	3484.4			
2013	11-Mar-13	9	515.3	773.6		0	3674			
2013	11-Mar-13	10	355.5	1191.9		0	3774.3			
2013	11-Mar-13	11	415.8	1006.9		0	3536.9			
2013	11-Mar-13	12	482.7	1019.7		0	3379.7			
2013	11-Mar-13	13	484.5	708.6		0	3058.1			
2013	11-Mar-13	14	348.7	417.4		0	2763.3			
2013	11-Mar-13	15	320.1	534.4		0	2844.5			
2013	11-Mar-13	16	397.1	399.7		0	2954.6			
2013	11-Mar-13	17	398	393.3		0	2886.1			
2013	11-Mar-13	18	376.1	616.4		0	3240			
2013	11-Mar-13	19	404	945.5		0	3607.3			
2013	11-Mar-13	20	317.6	588.9		0	3310.6			
2013	11-Mar-13	21	238.9	500.4		0	2758.7			
2013	11-Mar-13	22	159.9	386.8		0	2309.4			
2013	11-Mar-13	23	110.2	344.6		0	2250			
2013	12-Mar-13	0	117.5	432.6		0	2262			
2013	12-Mar-13	1	140.1	326.1		0	2267.5			
2013	12-Mar-13	2	110	221.6		0	2248.8			
2013	12-Mar-13	3	176.5	177.9		0	2240.1			
2013	12-Mar-13	4	283	278		0	2469.7			
2013	12-Mar-13	5	578.7	609.4		0	3540.7			
2013	12-Mar-13	6	1068.7	898.7		0	3862.1			
2013	12-Mar-13	7	1195.9	841.9		11.9	3592.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	12-Mar-13	8	1179	607.1		0	3476.7			
2013	12-Mar-13	9	1236.3	779		0	3456.8			
2013	12-Mar-13	10	1193.7	937.1		0	3686.7			
2013	12-Mar-13	11	1020	624.8		0	3554.6			
2013	12-Mar-13	12	517	223.3		0	3296.5			
2013	12-Mar-13	13	307.3	188		0	2898.7			
2013	12-Mar-13	14	266.6	143.5		0	2499.6			
2013	12-Mar-13	15	209.7	139.6		0	2490.2			
2013	12-Mar-13	16	214.7	140.6		0	2575.6			
2013	12-Mar-13	17	193.9	153		0	2412			
2013	12-Mar-13	18	129.2	131		0	2633.3			
2013	12-Mar-13	19	124.7	162.7		0	2790.1			
2013	12-Mar-13	20	128	139.5		0	2876.4			
2013	12-Mar-13	21	127.5	109.7		0	2581.1			
2013	12-Mar-13	22	72.2	73.1		0	2225.4			
2013	12-Mar-13	23	62.7	70.1		0	2229			
2013	13-Mar-13	0	69.5	60.6		0	2216.2			
2013	13-Mar-13	1	79.7	80.2		0	2234.7			
2013	13-Mar-13	2	62.3	32.7		0	2246.9			
2013	13-Mar-13	3	58.7	50.3		0	2348.4			
2013	13-Mar-13	4	97.9	35.2		0	2660.6			
2013	13-Mar-13	5	197.5	92.2		0	3668.5			
2013	13-Mar-13	6	157.2	148.5		0	3773.1			
2013	13-Mar-13	7	169.2	172.701		20.1	3752.9			
2013	13-Mar-13	8	135.2	35.5		3.1	3480.7			
2013	13-Mar-13	9	176.6	646.8		0	3410.8			
2013	13-Mar-13	10	137.8	407		0	3128.2			
2013	13-Mar-13	11	148.9	184.9		0	3267.4			
2013	13-Mar-13	12	225.5	169.3		0	3343.7			
2013	13-Mar-13	13	304.1	155.9		0	2895.2			
2013	13-Mar-13	14	272	141.8		0	2542.9			
2013	13-Mar-13	15	243.5	124.1		0	2548.3			
2013	13-Mar-13	16	208.6	91.4		0	2571.5			
2013	13-Mar-13	17	213.2	54.7		0	2827.7			
2013	13-Mar-13	18	250	43.5		0	2943.5			
2013	13-Mar-13	19	347.3	37.9		0	3278			
2013	13-Mar-13	20	460.1	39		0	3649.6			
2013	13-Mar-13	21	408.3	38.2		0	3524.9			
2013	13-Mar-13	22	223.8	39		0	3338.6			
2013	13-Mar-13	23	138.1	48.8		0	2844			
2013	14-Mar-13	0	118.5	37.8		0	2785.8			
2013	14-Mar-13	1	156.9	31.6		0	3056.3			
2013	14-Mar-13	2	141.4	26.9		0	2978.7			
2013	14-Mar-13	3	277.8	31.6		0	3072.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	14-Mar-13	4	512.4	42.3		0	3468.7			
2013	14-Mar-13	5	604	52.1		0	3944.8			
2013	14-Mar-13	6	575.3	54.4		0	3950.6			
2013	14-Mar-13	7	544.6	59.6		15.1	3910.4			
2013	14-Mar-13	8	589.2	392.3		2.9	3945.7			
2013	14-Mar-13	9	515.9	382.7		0	3946.1			
2013	14-Mar-13	10	485.1	385.4		0	3929.8			0.752
2013	14-Mar-13	11	464.1	401.6		0	3881.8			1.6
2013	14-Mar-13	12	586.9	394.4		0	3761.4			5.2
2013	14-Mar-13	13	549.1	373.6		0	3491.6			1.9
2013	14-Mar-13	14	381.6	326		0	3027.6			1.9
2013	14-Mar-13	15	354.3	353.9		0	2559.5			3
2013	14-Mar-13	16	362	227.5		0	2480.7			1.7
2013	14-Mar-13	17	310.5	188		0	2460.9			1.7
2013	14-Mar-13	18	273.5	125.9		0	2872.6			3.4
2013	14-Mar-13	19	391	637.9		0	3713.9			15.8
2013	14-Mar-13	20	341	664.1		0	3854.1			19.2
2013	14-Mar-13	21	285.1	585.5		0	3718.1			31.1
2013	14-Mar-13	22	179	268.4		0	3409.5			99.8
2013	14-Mar-13	23	104.8	200.9		0	3011.9			192.5
2013	15-Mar-13	0	88.1	236.5		0	2646.2			981.9
2013	15-Mar-13	1	109	177		0	2630			1671.3
2013	15-Mar-13	2	133	228.8		0	2864.7			1904.4
2013	15-Mar-13	3	118.4	152.4		0	2670.5			379.3
2013	15-Mar-13	4	229.7	353.1		0	3013.3			519.8
2013	15-Mar-13	5	366.7	711.7		0	3582.7			716.5
2013	15-Mar-13	6	570.7	765.7		0	3887			739.1
2013	15-Mar-13	7	500.7	930.8		19.3	3865.1			687.7
2013	15-Mar-13	8	424.7	788.6		1	3855.8			601.3
2013	15-Mar-13	9	468.7	940.3		0	3633.8			458.8
2013	15-Mar-13	10	406.7	845.1		0	3518.8			456.2
2013	15-Mar-13	11	443.2	661.7		0	3123.2			364.9
2013	15-Mar-13	12	476	454.8		0	2688.3			368.3
2013	15-Mar-13	13	431.9	381.2		0	2480.4			376.8
2013	15-Mar-13	14	214.5	295		0	2253.1			378.5
2013	15-Mar-13	15	159.9	243.9		0	2251.5			379.6
2013	15-Mar-13	16	134.4	212.7		0	2215.4			387.8
2013	15-Mar-13	17	151	245.4		0	2201.7			391.5
2013	15-Mar-13	18	108.8	300		0	2429.9			400
2013	15-Mar-13	19	108.4	324.6		0	2602.8			389.6
2013	15-Mar-13	20	153.8	316.6		0	2489.2			395.9
2013	15-Mar-13	21	120.5	317.9		0	2474			397.2
2013	15-Mar-13	22	77	310.4		0	2478.8			398.6
2013	15-Mar-13	23	83	271.7		0	2622			398.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Mar-13	0	59.9	261.1		0	2322.5			401.1
2013	16-Mar-13	1	10.241	209.5		0	2232			399.3
2013	16-Mar-13	2		213.9		0	2212.8			399
2013	16-Mar-13	3		170.3		0	2254.1			397
2013	16-Mar-13	4		207.5		0	2269.8			399
2013	16-Mar-13	5		198.4		0	2301.4			395.9
2013	16-Mar-13	6		194.8		0	2265			390
2013	16-Mar-13	7		184		10.1	2779.3			478.6
2013	16-Mar-13	8		492.2		0	3177			516.5
2013	16-Mar-13	9		699.9		0	3500.6			601.5
2013	16-Mar-13	10		973.2		0	3565.3			576.4
2013	16-Mar-13	11		1008.2		0	3451.6			488.9
2013	16-Mar-13	12		603.9		0	3110.5			383.5
2013	16-Mar-13	13		680.5		0	3054.6			394.7
2013	16-Mar-13	14		456.9		0	2759.7			381.8
2013	16-Mar-13	15		213		0	2784.9			384.5
2013	16-Mar-13	16		616.2		0	2923.3			410.7
2013	16-Mar-13	17		892.7		0	3434.6			621.7
2013	16-Mar-13	18		992.3		0	3792.4			767
2013	16-Mar-13	19		1166.7		0	3890			768.2
2013	16-Mar-13	20		1300.6		0	3869.1			750.1
2013	16-Mar-13	21		1133.2		0	3809			651.5
2013	16-Mar-13	22		506		0	3332.8			444.9
2013	16-Mar-13	23		351.3		0	2680.8			383.8
2013	17-Mar-13	0		399.5		0	2318.3			385.6
2013	17-Mar-13	1		448.5		0	2260.6			384.5
2013	17-Mar-13	2		144.3		0	2255.2			382.2
2013	17-Mar-13	3		151.1		0	2241.1			381.5
2013	17-Mar-13	4		202.1		0	2428.5			529.2
2013	17-Mar-13	5		480.4		0	3214.7			746.9
2013	17-Mar-13	6		498.3		0	3329.3			622.7
2013	17-Mar-13	7		131.4		15.9	2923.9			465.6
2013	17-Mar-13	8		265		1.3	3219			447.7
2013	17-Mar-13	9		354.2		0	3442.7			406.1
2013	17-Mar-13	10		284.4		0	3364			393.4
2013	17-Mar-13	11		332.6		0	3714.4			509.2
2013	17-Mar-13	12		608		0	3804.4			473.7
2013	17-Mar-13	13		385.1		0	3624.9			371
2013	17-Mar-13	14		166.7		0	3283.5			376.4
2013	17-Mar-13	15		208.2		0	3408.9			390.1
2013	17-Mar-13	16		342.1		0	3648.2			462.7
2013	17-Mar-13	17		768.5		0	3977.1			685.7
2013	17-Mar-13	18		1128.2		0	3986.5			782.7
2013	17-Mar-13	19		1150.7		0	3964.7			759

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	17-Mar-13	20		1152.8		0	3938.8			728.2
2013	17-Mar-13	21		1109.2		0	3879.4			698.6
2013	17-Mar-13	22		735.2		0	3543.4			540.1
2013	17-Mar-13	23		756.1		0	3428			388.2
2013	18-Mar-13	0		393.5		0	3054.9			368.7
2013	18-Mar-13	1		180.5		0	2648			369.9
2013	18-Mar-13	2		248.1		0	2807.9			371
2013	18-Mar-13	3		280.7		0	2844.5			363.9
2013	18-Mar-13	4		375.1		0	3174.1			427.4
2013	18-Mar-13	5		725.5		0	3705.8			628.6
2013	18-Mar-13	6		714.4		0	3662.2			742.7
2013	18-Mar-13	7		882.3		18.2	3615			731.3
2013	18-Mar-13	8		995		1.2	3647			733.1
2013	18-Mar-13	9		1070.1		0	3584.9			744.9
2013	18-Mar-13	10		1233.8		0	3553.6			746.9
2013	18-Mar-13	11		1452.7		0	3542.2			748.3
2013	18-Mar-13	12		1200.2		0	3532.3			748.3
2013	18-Mar-13	13		1146.7		0	3556.4			737.2
2013	18-Mar-13	14		1333.6		0	3573			707.5
2013	18-Mar-13	15		1357.1		0	3599.2			750.2
2013	18-Mar-13	16		1103.4		0	3552.9			747.1
2013	18-Mar-13	17		1013.4		0	3523			738
2013	18-Mar-13	18		998.9		0	3492.4			742.5
2013	18-Mar-13	19		764		0	3513.3			740.6
2013	18-Mar-13	20		644.2		0	3521.2			736.5
2013	18-Mar-13	21		650.7		0	3561.9			683.9
2013	18-Mar-13	22		834.1		0	3551.7			592.6
2013	18-Mar-13	23		1112.2		0	3597.9			657
2013	19-Mar-13	0		965.8		0	3378.9			599.4
2013	19-Mar-13	1		474.2		0	2711.7			480.1
2013	19-Mar-13	2		254.2		99.9	2688.1			582
2013	19-Mar-13	3		336.2		465.6	3190.4			478
2013	19-Mar-13	4		573.7		908.8	3501.9			593.3
2013	19-Mar-13	5		747.2		1644.5	3609.9			699
2013	19-Mar-13	6		642.7		2100.5	3611.6			755.4
2013	19-Mar-13	7		493.7		2131.6	3566.9			741.3
2013	19-Mar-13	8		375		2132.1	3584			760.9
2013	19-Mar-13	9		478.4		2162.1	3550.7			754.6
2013	19-Mar-13	10		560.9		2019.1	3512.5			745.5
2013	19-Mar-13	11		599.6		1777.7	3383.2			676
2013	19-Mar-13	12		401.5		1095.5	3166.8			536.1
2013	19-Mar-13	13		274.9		885.5	3173.8			545.9
2013	19-Mar-13	14		167.5		877.2	3060.2			432.3
2013	19-Mar-13	15		181.9		896.1	2761.7			404.8



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	19-Mar-13	16		142.7		1151.6	2665.9			457.1
2013	19-Mar-13	17		308.9		2200.7	3253.4			685.5
2013	19-Mar-13	18		427.5		2209.1	3610			763.3
2013	19-Mar-13	19		445.6		2192.9	3651.1			744.2
2013	19-Mar-13	20		377.9		2173.2	3622.9			737
2013	19-Mar-13	21		387.7		2039	3620.7			703.7
2013	19-Mar-13	22		311.6		1201.2	3430			567.7
2013	19-Mar-13	23		268.8		907.1	2985.5			427.6
2013	20-Mar-13	0		182.6		905.3	2500.1			384
2013	20-Mar-13	1		158.9		860.8	2456.2			403.8
2013	20-Mar-13	2		489.2		858.7	2523.4			527.8
2013	20-Mar-13	3		328		859	2680.7			518.6
2013	20-Mar-13	4		467.8		1226	2996.4			724.4
2013	20-Mar-13	5		911.8		2109.2	3633.5			760.1
2013	20-Mar-13	6		487		2157.3	3638.3			789.3
2013	20-Mar-13	7		378.2		2153.9	3654.9			746.4
2013	20-Mar-13	8		320.7		2029.1	3646			725.3
2013	20-Mar-13	9		515		1898.4	3674.3			735.9
2013	20-Mar-13	10		664.4		1848.3	3665.5			712
2013	20-Mar-13	11		868.7		1574.7	3609.3			653.9
2013	20-Mar-13	12		829.1		963.8	3422.5			501.1
2013	20-Mar-13	13		368.3		751.4	3311.6			387.1
2013	20-Mar-13	14		205		779.8	3140.6			381.8
2013	20-Mar-13	15		291.1		780.3	3111.7			380.1
2013	20-Mar-13	16		396.3		783.9	3295.7			392.6
2013	20-Mar-13	17		492.6		778.6	3315.4			399
2013	20-Mar-13	18		644.8		839	3436.1			474.8
2013	20-Mar-13	19		932.3		1650.6	3521.8			636.1
2013	20-Mar-13	20		894		1964.6	3508.6			717.4
2013	20-Mar-13	21		426.8		1767.4	3416.4			677.6
2013	20-Mar-13	22		197.4		990.4	3220.8			481.3
2013	20-Mar-13	23		145.2		821.4	2838.8			369.2
2013	21-Mar-13	0		71.6		820.3	2533.8			378.9
2013	21-Mar-13	1		83.3		817.5	2520.2			441
2013	21-Mar-13	2		127.4		817.1	2737			694.6
2013	21-Mar-13	3		184.3		1203.9	2949.6			749.1
2013	21-Mar-13	4		345.5		1981.9	3334.9			734
2013	21-Mar-13	5		661.1		1969.2	3331.2			744.8
2013	21-Mar-13	6		684.4		1985.9	3346.7			749.4
2013	21-Mar-13	7		738.7		1994.1	3306.4			695.5
2013	21-Mar-13	8		261.7		1958.2	3317.1			752
2013	21-Mar-13	9		235.6		2003.4	3292.6			719
2013	21-Mar-13	10		195.9		1995.5	3287.9			654.2
2013	21-Mar-13	11		208.4		1824.4	3305.6			714.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	21-Mar-13	12		164.9		1806.4	3299			645.6
2013	21-Mar-13	13		186.4		1580.2	3237.8			648.9
2013	21-Mar-13	14		155.7		822.8	3232			580.3
2013	21-Mar-13	15		180.4		738.1	3272.4			536.9
2013	21-Mar-13	16		161.9		1086.4	3291.8			636.8
2013	21-Mar-13	17		487.9		1655.7	3335.6			794.9
2013	21-Mar-13	18		536.2		1755.5	3357.6			760.8
2013	21-Mar-13	19		575.4		1743.9	3371			749
2013	21-Mar-13	20		547		1730.3	3421.9			722
2013	21-Mar-13	21		560.6		1738.5	3435.8			717.3
2013	21-Mar-13	22		525.8		1729.4	3397.4			725
2013	21-Mar-13	23		537.5		1690.6	3387.7			733.2
2013	22-Mar-13	0		481.2		1587.6	3408.6			672.9
2013	22-Mar-13	1		528.7		1605.5	3407.4			861.2
2013	22-Mar-13	2		715.8		1607.3	3391.3			835.3
2013	22-Mar-13	3		1372.8		1641.9	3420.7			758.6
2013	22-Mar-13	4		1406.5		1636	3457.9			723.6
2013	22-Mar-13	5		1303.9		1630.6	3468			732.3
2013	22-Mar-13	6		1306.2		1640.2	3433.1			727.2
2013	22-Mar-13	7		1254.9		1818.4	3445.8			719.9
2013	22-Mar-13	8		1258.2		1775.6	3474.4			724.6
2013	22-Mar-13	9		1380.6		1856.5	3469.7			738.7
2013	22-Mar-13	10		1317		1805.7	3463.9			741.3
2013	22-Mar-13	11		1508.6		1689	3477			723.4
2013	22-Mar-13	12		1482.5		1670.7	3478.7			667.4
2013	22-Mar-13	13		1550.6		1555.1	3324.2			544.6
2013	22-Mar-13	14		1250.5		1378.7	3126.3			377.6
2013	22-Mar-13	15		1019.3		1019.5	2748.8			372
2013	22-Mar-13	16		615.2		771.9	2645.5			371
2013	22-Mar-13	17		507.4		694.1	2647.2			370.6
2013	22-Mar-13	18		551.5		720.9	2638.5			404.8
2013	22-Mar-13	19		846.3		1151.4	3026.7			526.9
2013	22-Mar-13	20		954.7		832.1	3122.9			443.8
2013	22-Mar-13	21		1052.6		664	3085.7			385.9
2013	22-Mar-13	22		1038.8		717.3	3098			513.2
2013	22-Mar-13	23		918.1		754	3012.4			548.4
2013	23-Mar-13	0		620.4		723.3	2938.7			560.8
2013	23-Mar-13	1		640		722.6	2924			604.2
2013	23-Mar-13	2		621.4		728.9	2944.7			628.2
2013	23-Mar-13	3		577.3		725.4	2868.5			548.9
2013	23-Mar-13	4		581.5		987.8	2961.1			629.8
2013	23-Mar-13	5		1054.1		1688.1	3222			771.8
2013	23-Mar-13	6		1522		1728.1	3189.7			744.3
2013	23-Mar-13	7		1616.5		1745.8	3174.9			762.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	23-Mar-13	8		1519.7		1725.3	3211.6			751.9
2013	23-Mar-13	9		1611.8		1660.6	3153.8			710.8
2013	23-Mar-13	10		1452.9		1306.3	2963.5			562.2
2013	23-Mar-13	11		1155.3		768.9	2696.9			432.6
2013	23-Mar-13	12		839.1		687.7	2780.7			480.9
2013	23-Mar-13	13		611.9		698	2674			478.2
2013	23-Mar-13	14		524.8		701.3	2382.3			457.7
2013	23-Mar-13	15		429.2		701.2	2016.5			380.7
2013	23-Mar-13	16		287.5		680.7	1889.6			395.4
2013	23-Mar-13	17		307.1		676.4	1895.5			392.3
2013	23-Mar-13	18		294.8		683.8	1921.7			378.3
2013	23-Mar-13	19		428.6		789.9	2274.8			419
2013	23-Mar-13	20		338.6		658.3	2364.4			363.2
2013	23-Mar-13	21		272.8		659.5	2111.9			365.9
2013	23-Mar-13	22		256.5		659.1	1818.8			367.3
2013	23-Mar-13	23		283		657.2	1865.7			362
2013	24-Mar-13	0		245.2		649.8	1834.1			364.9
2013	24-Mar-13	1		271.9		644.1	1825.1			361.5
2013	24-Mar-13	2		242.3		635.6	1826.1			361.5
2013	24-Mar-13	3		272		633.7	1836.1			362.3
2013	24-Mar-13	4		241.3		633.3	1846.5			361.1
2013	24-Mar-13	5		271.1		627.2	1950.2			360.5
2013	24-Mar-13	6		234.5		626	1928.7			362.4
2013	24-Mar-13	7		222.4		808.9	2156.3			430.2
2013	24-Mar-13	8		364.5		634.4	2615.4			368.1
2013	24-Mar-13	9		612.6		614.6	2917.5			368.1
2013	24-Mar-13	10		523.8		617.9	2755.2			367.8
2013	24-Mar-13	11		353		625.4	2406.2			369.2
2013	24-Mar-13	12		256.5		633.5	2306			370.9
2013	24-Mar-13	13		310		636.7	2133			364.6
2013	24-Mar-13	14		208.6		646.4	2144.6			362.9
2013	24-Mar-13	15		179		654.5	2297			374
2013	24-Mar-13	16		370.5		713.5	2753.8			392
2013	24-Mar-13	17		794.1		1351.7	3095.3			623.4
2013	24-Mar-13	18		1213.9		1657.5	3201.1			807.1
2013	24-Mar-13	19		1420.2		1509.5	3095.7			695.8
2013	24-Mar-13	20		1395.8		1123.4	3085.6			549.4
2013	24-Mar-13	21		1176.6		689.7	2833.2			386.5
2013	24-Mar-13	22		856.7		614.6	2770.6			369.9
2013	24-Mar-13	23		603.6		627.9	2469			369.3
2013	25-Mar-13	0		347.3		623.7	2158.5			369.7
2013	25-Mar-13	1		251		622.1	1900.1			361
2013	25-Mar-13	2		237.5		617.7	1835.2			365.2
2013	25-Mar-13	3		198.4		643.3	1850.1			390.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	25-Mar-13	4		510.6		1287.1	2393.6			605.4
2013	25-Mar-13	5		835.3		1620.3	2904.5			788.8
2013	25-Mar-13	6		564.9		1618.6	3160			773.9
2013	25-Mar-13	7		550.6		1584.9	3095.4			737.5
2013	25-Mar-13	8		487.5		1568.7	3134.2			770.7
2013	25-Mar-13	9		575.6		1552.6	3145.8			728.2
2013	25-Mar-13	10		583		1546	3178.7			731.3
2013	25-Mar-13	11		633.5		1539.7	3194			721.9
2013	25-Mar-13	12		608.9		1534.4	3249.4			722.4
2013	25-Mar-13	13		638.5		1529.8	3284.1			732.7
2013	25-Mar-13	14		570.4		1404.8	3289			657.6
2013	25-Mar-13	15		631.4		1501.1	3346.9			718.4
2013	25-Mar-13	16		544		1533.4	3347.2			709.2
2013	25-Mar-13	17		563.4		1392.6	3282.7			645.5
2013	25-Mar-13	18		513.9		1197	3331.2			536.6
2013	25-Mar-13	19		561.7		1481.4	3385.2			704.6
2013	25-Mar-13	20		515.2		1480.1	3396.4			734.5
2013	25-Mar-13	21		548.7		1392.5	3362.1			653.2
2013	25-Mar-13	22		380.8		815.7	3110			511.9
2013	25-Mar-13	23		327.6		589.5	2888			393.4
2013	26-Mar-13	0		169.8		598.8	2785.9			359.7
2013	26-Mar-13	1		182.1		603.6	2444.7			355.8
2013	26-Mar-13	2		146.4		608.2	2208.7			360.7
2013	26-Mar-13	3		177.7		611.2	2419			366.8
2013	26-Mar-13	4		228.9		815.2	2700.3			438.1
2013	26-Mar-13	5		555.1		1517.4	3255.6			658.5
2013	26-Mar-13	6		643.4		1560.6	3493.9			758.6
2013	26-Mar-13	7		618.9		1314.5	3446.6			613.3
2013	26-Mar-13	8		573.8		821.9	3447.3			459.2
2013	26-Mar-13	9		596.7		619.7	3451.7			392.7
2013	26-Mar-13	10		579.5		887.1	3581.3			493.8
2013	26-Mar-13	11		607.1		1298.7	3675.4			509.6
2013	26-Mar-13	12		566.8		1194.7	3638.4			490.8
2013	26-Mar-13	13		595.4		846.3	3485.4			394.1
2013	26-Mar-13	14		570.1		656.5	3511.6			386.7
2013	26-Mar-13	15		535.7		666.1	3290.7			367.9
2013	26-Mar-13	16		542.4		669.9	3264.6			376.5
2013	26-Mar-13	17		736.9		677.6	3375.8			376.1
2013	26-Mar-13	18		630.9		685.3	3302.6			403
2013	26-Mar-13	19		952.5		803.2	3611.3			474.4
2013	26-Mar-13	20		1031.1		827.6	3625.3			496.5
2013	26-Mar-13	21		933.6		815	3480			477.7
2013	26-Mar-13	22		475.1		663.2	3162.3			386.9
2013	26-Mar-13	23		394.5		677.3	2787.7			371.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Mar-13	0		274		684.5	2379			375.4
2013	27-Mar-13	1		308.9		687.1	2107.9			372.3
2013	27-Mar-13	2		276.4		690.8	2145.1			372.9
2013	27-Mar-13	3		287		694.2	2306			372
2013	27-Mar-13	4		290.9		692.2	2547.2			373.8
2013	27-Mar-13	5		407.5		729	2935.2			425.6
2013	27-Mar-13	6		669.5		1352.7	3454.3			690.7
2013	27-Mar-13	7		889.2		1561.4	3566.8			596.4
2013	27-Mar-13	8		1081.2		1103.2	3361.5			427.1
2013	27-Mar-13	9		1287.2		708.1	3446.1			377.5
2013	27-Mar-13	10		1131.3		688.9	3284.9			430.1
2013	27-Mar-13	11		602		709.2	3079.4			384.1
2013	27-Mar-13	12		423.8		715.5	3178.3			371.6
2013	27-Mar-13	13		309.5		718.7	2771.2			434.6
2013	27-Mar-13	14		219.6		716.1	2307.6			384.2
2013	27-Mar-13	15		234.1		720	2205.4			387.2
2013	27-Mar-13	16		200.4		714.8	2338			388.3
2013	27-Mar-13	17		176.8		706.1	2216.9			385.1
2013	27-Mar-13	18		193.4		745.1	2612.9			426.3
2013	27-Mar-13	19		362.7		731.5	3052.3			435
2013	27-Mar-13	20		476.3		702.7	3257.9			382.5
2013	27-Mar-13	21		533.3		705.7	2958.4			381.8
2013	27-Mar-13	22		347.7		707.1	2427.5			377.1
2013	27-Mar-13	23		312.6		711.5	2088.7			388.8
2013	28-Mar-13	0		287		706.5	2048			381.8
2013	28-Mar-13	1		172.6		712	2027.2			382.9
2013	28-Mar-13	2		103.1		709	2029.3			382.2
2013	28-Mar-13	3		101		713.6	2127.1			378.2
2013	28-Mar-13	4		129.6		752.8	2122.9			406.6
2013	28-Mar-13	5		220		1358.1	2557.3			720.5
2013	28-Mar-13	6		347.2		1613.8	3218.5			825.2
2013	28-Mar-13	7		328.9		1463.5	3440.3			717.9
2013	28-Mar-13	8		681.8		1289.9	3384.1			664.9
2013	28-Mar-13	9		771.8		736.5	3345.8			466.5
2013	28-Mar-13	10		852.5		751.3	3353.2			446.8
2013	28-Mar-13	11		1013.1		727.7	3268.7			399.3
2013	28-Mar-13	12		714.3		690.1	3072.5			393.6
2013	28-Mar-13	13		564.5		694.4	2623.1			387.4
2013	28-Mar-13	14		227		691.1	2217.9			390.9
2013	28-Mar-13	15		155.7		696.7	2010.2			388.9
2013	28-Mar-13	16		161.2		694.1	2019.6			393
2013	28-Mar-13	17		166.1		692.9	2000.8			400.8
2013	28-Mar-13	18		175.7		694.3	2084.8			383.5
2013	28-Mar-13	19		221.4		662.9	2432.4			388.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	28-Mar-13	20		243.2		694	2367.1			379.7
2013	28-Mar-13	21		260.4		698.2	2041.4			387.2
2013	28-Mar-13	22		295.7		697.4	1978.5			475
2013	28-Mar-13	23		267.3		474.1	1981.2			272.5
2013	29-Mar-13	0		275.1		4.332	1966			3.6
2013	29-Mar-13	1		273.6			1946.7			
2013	29-Mar-13	2		270			1952.9			
2013	29-Mar-13	3		278.6			1959			
2013	29-Mar-13	4		608			2272.1			
2013	29-Mar-13	5		975.6			2879.5			
2013	29-Mar-13	6		504.7			3236.5			
2013	29-Mar-13	7		648.5			3366.5			
2013	29-Mar-13	8		866.9			3387.8			
2013	29-Mar-13	9		524.4			3188.2			
2013	29-Mar-13	10		421			2912.1			
2013	29-Mar-13	11		266.8			2574.5			
2013	29-Mar-13	12		272.4			2307.2			
2013	29-Mar-13	13		487.3			2270.9			
2013	29-Mar-13	14		606.1			1981.2			
2013	29-Mar-13	15		450.7			1962.6			
2013	29-Mar-13	16		571.3			1963.6			
2013	29-Mar-13	17		694.8			1964.5			
2013	29-Mar-13	18		401.4			1993.7			
2013	29-Mar-13	19		308.9			2204.3			
2013	29-Mar-13	20		196.1			2166.5			
2013	29-Mar-13	21		186.8			1970.4			
2013	29-Mar-13	22		204.8			1950.8			
2013	29-Mar-13	23		189.2			2010.1			
2013	30-Mar-13	0		200			2010.5			
2013	30-Mar-13	1		180.2			1955.1			
2013	30-Mar-13	2		146.1			2003.8			
2013	30-Mar-13	3		98.1			1990.9			
2013	30-Mar-13	4		113.8			2045.9			
2013	30-Mar-13	5		142.1			2199.8			
2013	30-Mar-13	6		192.4			2393.7			
2013	30-Mar-13	7		167.1			2832.1			
2013	30-Mar-13	8		187.5			2697			
2013	30-Mar-13	9		119.9			2462.1			
2013	30-Mar-13	10		150.9			2232.9			
2013	30-Mar-13	11		133.5			2010.7			
2013	30-Mar-13	12		153.9			1987.6			
2013	30-Mar-13	13		126.9			1974.9			
2013	30-Mar-13	14		147.9			1971.7			
2013	30-Mar-13	15		128.7			1976.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	30-Mar-13	16		160.7			1976.5			
2013	30-Mar-13	17		134			1976.9			
2013	30-Mar-13	18		115.5			2067.4			
2013	30-Mar-13	19		117.7			2473.6			
2013	30-Mar-13	20		93.2			2429.5			
2013	30-Mar-13	21		63.8			2088.1			
2013	30-Mar-13	22		63.9			1958.2			
2013	30-Mar-13	23		76.1			1935.2			
2013	31-Mar-13	0		83.3			1949.5			
2013	31-Mar-13	1		76.6			1958.4			
2013	31-Mar-13	2		79.9			1952			
2013	31-Mar-13	3		59.6			1958			
2013	31-Mar-13	4		60.6			1960.1			
2013	31-Mar-13	5		71.6			1969.9			
2013	31-Mar-13	6		86.4			1961.7			
2013	31-Mar-13	7		56.5			1926.8			
2013	31-Mar-13	8		89.4			1968.4			
2013	31-Mar-13	9		62.9			1966.5			
2013	31-Mar-13	10		55.1			1954.5			
2013	31-Mar-13	11		59.5			1964.6			
2013	31-Mar-13	12		81.5			1976.1			
2013	31-Mar-13	13		90.8			1971.6			
2013	31-Mar-13	14		62.4			1965.9			
2013	31-Mar-13	15		39			1969.1			
2013	31-Mar-13	16		47.5			1983.1			
2013	31-Mar-13	17		47.7			1969.5			
2013	31-Mar-13	18		50.2			1984.3			
2013	31-Mar-13	19		61.1			2077.2			
2013	31-Mar-13	20		62.8			1970.8			
2013	31-Mar-13	21		57.4			2000.8			
2013	31-Mar-13	22		61.1			1983.5			
2013	31-Mar-13	23		49			1983.5			
2013	1-Apr-13	0		62.2			2001.9			
2013	1-Apr-13	1		65.5			2023.4			
2013	1-Apr-13	2		79.2			2037.7			
2013	1-Apr-13	3		72.7			2031.9			
2013	1-Apr-13	4		97			2029.1			
2013	1-Apr-13	5		103.8			2065.1			
2013	1-Apr-13	6		99.2			2049.2			
2013	1-Apr-13	7		58.6			2096.4			
2013	1-Apr-13	8		73.2			2069			
2013	1-Apr-13	9		64.8			2016.4			
2013	1-Apr-13	10		97.1			2031.8			
2013	1-Apr-13	11		88.9			2045.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	1-Apr-13	12		90.2			2020.3			
2013	1-Apr-13	13		74.9			2029.4			
2013	1-Apr-13	14		75.7			2052			
2013	1-Apr-13	15		59.5			2050.3			
2013	1-Apr-13	16		63.8			2053			
2013	1-Apr-13	17		64.9			2053.1			
2013	1-Apr-13	18		81.5			2070.5			
2013	1-Apr-13	19		77.3			2365.5			
2013	1-Apr-13	20		90.9			2230.4			
2013	1-Apr-13	21		73.9			2136			
2013	1-Apr-13	22		80.7			2106.6			
2013	1-Apr-13	23		50.3			2092.4			
2013	2-Apr-13	0		52.1			2104.3			
2013	2-Apr-13	1		70.5			2096.5			
2013	2-Apr-13	2		84.2			2109.4			
2013	2-Apr-13	3		54.9			2113			
2013	2-Apr-13	4		56.5			2169.3			
2013	2-Apr-13	5		78.1			2497.3			
2013	2-Apr-13	6		113.3			2778.4			
2013	2-Apr-13	7		60.1			2807.1			
2013	2-Apr-13	8		86.4			2756.6			
2013	2-Apr-13	9		75.8			2886.6			
2013	2-Apr-13	10		133			2856.3			
2013	2-Apr-13	11		124.3			2783.6			
2013	2-Apr-13	12		190.7			2612.5			
2013	2-Apr-13	13		182.1			2227.6			
2013	2-Apr-13	14		222.1			2149.5			
2013	2-Apr-13	15		161.1			2152.1			
2013	2-Apr-13	16		168.4			2167.8			
2013	2-Apr-13	17		110.3			2161.4			
2013	2-Apr-13	18		104.6			2235.4			
2013	2-Apr-13	19		143.7			2657			
2013	2-Apr-13	20		236.5			2951			
2013	2-Apr-13	21		225			3049.6			
2013	2-Apr-13	22		236.7			2683.9			
2013	2-Apr-13	23		182.6			2456.6			
2013	3-Apr-13	0		167.1			2237.6			
2013	3-Apr-13	1		130.5			2229.9			
2013	3-Apr-13	2		147.5			2256.4			
2013	3-Apr-13	3		133.7			2273.8			
2013	3-Apr-13	4		148.5			2443.5			
2013	3-Apr-13	5		210.3			2905.1			
2013	3-Apr-13	6		254			3391.8			
2013	3-Apr-13	7		172			3595.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	3-Apr-13	8		216.7			3690.6			
2013	3-Apr-13	9		191			3559.7			
2013	3-Apr-13	10		228.3			3502.5			
2013	3-Apr-13	11		244.5			3569.7			
2013	3-Apr-13	12		265.2			3604.4			
2013	3-Apr-13	13		182.7			3334			
2013	3-Apr-13	14		147			2901			
2013	3-Apr-13	15		130.6			2368.4			
2013	3-Apr-13	16		140.7			2157.3			
2013	3-Apr-13	17		130.5			2158.7			
2013	3-Apr-13	18		148.7			2194.1			
2013	3-Apr-13	19		197.3			2628.4			
2013	3-Apr-13	20		198.2			2842.1			
2013	3-Apr-13	21		250.5			2902.6			
2013	3-Apr-13	22		212.5			2596.1			
2013	3-Apr-13	23		160.1			2258.4			
2013	4-Apr-13	0		175.8			2172.5			
2013	4-Apr-13	1		143.8			2152.6			
2013	4-Apr-13	2		171.4			2132.2			
2013	4-Apr-13	3		149.6			2178.8			
2013	4-Apr-13	4		194.3			2611.8			
2013	4-Apr-13	5		225.9			3160.5			
2013	4-Apr-13	6		274.6			3530.7			
2013	4-Apr-13	7		289.1			3601.4			
2013	4-Apr-13	8		382.1			3650.7			
2013	4-Apr-13	9		235.3			3661.2			
2013	4-Apr-13	10		273.9			3655.7			
2013	4-Apr-13	11		229.8			3517			
2013	4-Apr-13	12		138.9			3291.2			
2013	4-Apr-13	13		219.2			3147.6			
2013	4-Apr-13	14		255.6			2780.9			
2013	4-Apr-13	15		259.378			2392.9			
2013	4-Apr-13	16		5.037			2757.6			
2013	4-Apr-13	17		18.3			3336.6			
2013	4-Apr-13	18		9.6			3567.2			
2013	4-Apr-13	19		11.8			3648.3			
2013	4-Apr-13	20		7.8			3659.2			
2013	4-Apr-13	21		10.53			3481.8			
2013	4-Apr-13	22		0.378			3014			
2013	4-Apr-13	23		2.6			2495.7			
2013	5-Apr-13	0		0			2183.3			
2013	5-Apr-13	1		1.139			2141.4			
2013	5-Apr-13	2		0			2143.1			
2013	5-Apr-13	3		4.3			2146.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Apr-13	4		2.2			2147.8			
2013	5-Apr-13	5		4.4			2325.4			
2013	5-Apr-13	6		6.9			2798.1			
2013	5-Apr-13	7		15			3248.7			
2013	5-Apr-13	8		68.8			3351.8			
2013	5-Apr-13	9		212.1			3101.8			
2013	5-Apr-13	10		473.2			2687			
2013	5-Apr-13	11		396.1			2601			
2013	5-Apr-13	12		487			2368.2			
2013	5-Apr-13	13		310.1			2154.3			
2013	5-Apr-13	14		431.3			2132.8			
2013	5-Apr-13	15		297.8			2124.8			
2013	5-Apr-13	16		287.5			2133.6			
2013	5-Apr-13	17		373			2138.2			
2013	5-Apr-13	18		495.4			2133.1			
2013	5-Apr-13	19		449.6			2197			
2013	5-Apr-13	20		208.9			2199.4			
2013	5-Apr-13	21		176.9			2200.2			
2013	5-Apr-13	22		408.8			2243.1			
2013	5-Apr-13	23		453.3			1695.3			
2013	6-Apr-13	0		327.3			66.624			
2013	6-Apr-13	1		159.3						
2013	6-Apr-13	2		148.2						
2013	6-Apr-13	3		135.7						
2013	6-Apr-13	4		151.7						
2013	6-Apr-13	5		131.1						
2013	6-Apr-13	6		153.1						
2013	6-Apr-13	7		179.3						
2013	6-Apr-13	8		79.6						
2013	6-Apr-13	9		100.3						
2013	6-Apr-13	10		89.6						
2013	6-Apr-13	11		70.2						
2013	6-Apr-13	12		65.1						
2013	6-Apr-13	13		61.6						
2013	6-Apr-13	14		58.2						
2013	6-Apr-13	15		57.2						
2013	6-Apr-13	16		73.4						
2013	6-Apr-13	17		76						
2013	6-Apr-13	18		106.5						
2013	6-Apr-13	19		110						
2013	6-Apr-13	20		169.5						
2013	6-Apr-13	21		142.7						
2013	6-Apr-13	22		176.7						
2013	6-Apr-13	23		144.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	7-Apr-13	0		165.4						
2013	7-Apr-13	1		80.7						
2013	7-Apr-13	2		91.5						
2013	7-Apr-13	3		115.1						
2013	7-Apr-13	4		118.2						
2013	7-Apr-13	5		153						
2013	7-Apr-13	6		151.4						
2013	7-Apr-13	7		118.6						
2013	7-Apr-13	8		87.6						
2013	7-Apr-13	9		89.4						
2013	7-Apr-13	10		91.7						
2013	7-Apr-13	11		79.4						
2013	7-Apr-13	12		110.4						
2013	7-Apr-13	13		72.5						
2013	7-Apr-13	14		37						
2013	7-Apr-13	15		33.6						
2013	7-Apr-13	16		57.9						
2013	7-Apr-13	17		55.2						
2013	7-Apr-13	18		95.4						
2013	7-Apr-13	19		105.4						
2013	7-Apr-13	20		146.1						
2013	7-Apr-13	21		139.3						
2013	7-Apr-13	22		150.1						
2013	7-Apr-13	23		163.8						
2013	8-Apr-13	0		180.4						
2013	8-Apr-13	1		134.9						
2013	8-Apr-13	2		140.3						
2013	8-Apr-13	3		135.1						
2013	8-Apr-13	4		168.8						
2013	8-Apr-13	5		170						
2013	8-Apr-13	6		189.2						
2013	8-Apr-13	7		128.1						
2013	8-Apr-13	8		130.1						
2013	8-Apr-13	9		156.8						
2013	8-Apr-13	10		222.8						
2013	8-Apr-13	11		289.4						
2013	8-Apr-13	12		560.4	0.053					
2013	8-Apr-13	13		274	0.068					
2013	8-Apr-13	14		346.8	0.09					
2013	8-Apr-13	15		304.4	0.091					
2013	8-Apr-13	16		340.9	0.091		0			
2013	8-Apr-13	17		219.9	0.091		0			
2013	8-Apr-13	18		495.9	0.091		30.5			
2013	8-Apr-13	19		271.1	0.082		425.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	8-Apr-13	20	0	379	0.054		464			
2013	8-Apr-13	21	0	250.5	0.043		493.8			
2013	8-Apr-13	22	1	427.3	0.074		807.3			
2013	8-Apr-13	23	0	339.9	0.066		1470			
2013	9-Apr-13	0	0	379.1	0.04		2044.9			
2013	9-Apr-13	1	0	248.6	0.036		2184			
2013	9-Apr-13	2	0	227.2	0.036		2172.3			
2013	9-Apr-13	3	0	236.4	0.036		2227.2			
2013	9-Apr-13	4	0	353.6	0.036		2301.3			
2013	9-Apr-13	5	0	511.7	0.036		2189.1			
2013	9-Apr-13	6	0	476.9	0.036		2168.6			
2013	9-Apr-13	7	2.5	346.8	0.036		2131.9			
2013	9-Apr-13	8	0	129	0.026		2161.2			
2013	9-Apr-13	9	0	139.2			2233.9			
2013	9-Apr-13	10	0	217.2			2493.1			
2013	9-Apr-13	11	0	181.6			2751.3			
2013	9-Apr-13	12	0	328.9			3064.2			
2013	9-Apr-13	13	0	439.9			3149.8			
2013	9-Apr-13	14	0	215.1			3278.3			
2013	9-Apr-13	15	0	292.7			3583.6			
2013	9-Apr-13	16	0	439.7			3641.6			
2013	9-Apr-13	17	0	274.618			3630.2			
2013	9-Apr-13	18					3690.6			
2013	9-Apr-13	19					3377.8			
2013	9-Apr-13	20					3648.9			
2013	9-Apr-13	21					3708.6			
2013	9-Apr-13	22					3635.8			
2013	9-Apr-13	23			0.014		3224.1			
2013	10-Apr-13	0			0.064		2663.9			
2013	10-Apr-13	1			0.064		2286			
2013	10-Apr-13	2			0.05		2235.4			
2013	10-Apr-13	3		4.1	0.05		2237.4			
2013	10-Apr-13	4		1	0.055		2300.8			
2013	10-Apr-13	5		2.6	0.074		2334.6			
2013	10-Apr-13	6		12.4	0.105		2782			
2013	10-Apr-13	7		9.6	0.253		3492.8			
2013	10-Apr-13	8		13.1	0.265		3701.9			
2013	10-Apr-13	9		6.1	0.542		3719.2			
2013	10-Apr-13	10		3.5	0.809		3725.9			
2013	10-Apr-13	11		4.3	0.835		3732.5			
2013	10-Apr-13	12		1.9	0.798		3721.9			
2013	10-Apr-13	13		3.6	0.82		3757.4			
2013	10-Apr-13	14		2.3	0.829		3734.9			
2013	10-Apr-13	15			0.832		3742.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	10-Apr-13	16			0.83		3750.7			
2013	10-Apr-13	17			0.781		3737.1			
2013	10-Apr-13	18			0.647		3702.7			
2013	10-Apr-13	19			0.649		3679.7			
2013	10-Apr-13	20		0	0.726		3693			
2013	10-Apr-13	21		0.9	0.613		3698			
2013	10-Apr-13	22		0	0.462		3641.9			
2013	10-Apr-13	23		0.9	0.274		3619.6			
2013	11-Apr-13	0		15.1	0.223		3483.9			
2013	11-Apr-13	1		13.9	0.224		3075.3			
2013	11-Apr-13	2		9.5	0.224		2712			
2013	11-Apr-13	3		46.3	0.224		2389.3			
2013	11-Apr-13	4		80.3	0.223		2198.6			
2013	11-Apr-13	5		136.8	0.224		2408.3			
2013	11-Apr-13	6		298.1	0.225		2763.4			
2013	11-Apr-13	7		322	0.329		3251.3			
2013	11-Apr-13	8		245.3	0.284		3340.4			
2013	11-Apr-13	9		179.2	0.231		3389.4			
2013	11-Apr-13	10		367.1	0.231		3472.5			
2013	11-Apr-13	11		87.06	0.24		3512.5			
2013	11-Apr-13	12			0.364		3533.1			
2013	11-Apr-13	13			0.553		3543.1			
2013	11-Apr-13	14			0.777		3579.1			
2013	11-Apr-13	15			0.857		3563.9			
2013	11-Apr-13	16			0.766		3533.7			
2013	11-Apr-13	17			0.713		3529.6			
2013	11-Apr-13	18			0.433		3522.4			
2013	11-Apr-13	19			0.231		3478.7			
2013	11-Apr-13	20			0.222		3473.6			
2013	11-Apr-13	21			0.223		3168.9			
2013	11-Apr-13	22			0.264		3150.8			
2013	11-Apr-13	23			0.015		3144.5			
2013	12-Apr-13	0					2788.9			
2013	12-Apr-13	1					2270.3			
2013	12-Apr-13	2					2050			
2013	12-Apr-13	3					2053.2			
2013	12-Apr-13	4					2207.5			
2013	12-Apr-13	5					2274.8			
2013	12-Apr-13	6					2821.1			
2013	12-Apr-13	7					3259.5			
2013	12-Apr-13	8					3517.3			
2013	12-Apr-13	9					3589.3			
2013	12-Apr-13	10					3627.7			
2013	12-Apr-13	11					3675			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	12-Apr-13	12					3666.4			
2013	12-Apr-13	13					3656.5			
2013	12-Apr-13	14					3468			
2013	12-Apr-13	15					3301.9			
2013	12-Apr-13	16					3523.5			
2013	12-Apr-13	17					3664.6			
2013	12-Apr-13	18					3444.8			
2013	12-Apr-13	19					3633.9			
2013	12-Apr-13	20					3519.8			
2013	12-Apr-13	21					3163.8			
2013	12-Apr-13	22					2732.2			
2013	12-Apr-13	23					2509.1			
2013	13-Apr-13	0					2258.2			
2013	13-Apr-13	1					2184.6			
2013	13-Apr-13	2					2154.2			
2013	13-Apr-13	3					2159.3			
2013	13-Apr-13	4					2161.3			
2013	13-Apr-13	5					2176.2			
2013	13-Apr-13	6					2205.3			
2013	13-Apr-13	7					2493.4			
2013	13-Apr-13	8					2651.2			
2013	13-Apr-13	9					3119.8			
2013	13-Apr-13	10					3145.3			
2013	13-Apr-13	11					3273.4			
2013	13-Apr-13	12					3420.7			
2013	13-Apr-13	13					3485.1			
2013	13-Apr-13	14					3097.9			
2013	13-Apr-13	15					2848.3			
2013	13-Apr-13	16					2527.7			
2013	13-Apr-13	17					2606.9			
2013	13-Apr-13	18					2429.9			
2013	13-Apr-13	19					2883.3			
2013	13-Apr-13	20					3384.1			
2013	13-Apr-13	21					3618			
2013	13-Apr-13	22					3271.7			
2013	13-Apr-13	23					2812.8			
2013	14-Apr-13	0					2528.3			
2013	14-Apr-13	1					2225.3			
2013	14-Apr-13	2					2180.4			
2013	14-Apr-13	3					2183.9			
2013	14-Apr-13	4					2186.7			
2013	14-Apr-13	5					2186.1			
2013	14-Apr-13	6					2195.4			
2013	14-Apr-13	7					2190.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	14-Apr-13	8					2214.9			
2013	14-Apr-13	9					2436.5			
2013	14-Apr-13	10					2450.4			
2013	14-Apr-13	11					2667.7			
2013	14-Apr-13	12					2469.6			
2013	14-Apr-13	13					2222.4			
2013	14-Apr-13	14					2211.9			
2013	14-Apr-13	15					2248.6			
2013	14-Apr-13	16					2233.2			
2013	14-Apr-13	17					2438.7			
2013	14-Apr-13	18					2640			
2013	14-Apr-13	19					3223.6			
2013	14-Apr-13	20					3734.2			
2013	14-Apr-13	21					3856.6			
2013	14-Apr-13	22					3652.3			
2013	14-Apr-13	23					3124.6			
2013	15-Apr-13	0					2692.6			
2013	15-Apr-13	1					2325.4			0
2013	15-Apr-13	2					2246.2			0
2013	15-Apr-13	3					2236.8			0
2013	15-Apr-13	4					2249.9			0
2013	15-Apr-13	5					2612.9			0
2013	15-Apr-13	6					3037.6			0
2013	15-Apr-13	7					3574.7			0
2013	15-Apr-13	8					3885.2			0
2013	15-Apr-13	9					3840.4			0
2013	15-Apr-13	10					3766.4			0
2013	15-Apr-13	11					3774.3			0
2013	15-Apr-13	12					3751.5			0
2013	15-Apr-13	13					3562.4			0
2013	15-Apr-13	14					3309.8			0
2013	15-Apr-13	15					3278.7			0
2013	15-Apr-13	16					3354.4			0
2013	15-Apr-13	17					3559			0
2013	15-Apr-13	18					3494.1			0
2013	15-Apr-13	19					3634.2			166.4
2013	15-Apr-13	20					3621.6			322.2
2013	15-Apr-13	21					3324.3			490.4
2013	15-Apr-13	22					2862.3			540.7
2013	15-Apr-13	23					2437.4			807.9
2013	16-Apr-13	0					2111.4			856.4
2013	16-Apr-13	1					2072.1			970.6
2013	16-Apr-13	2					2052			1174.1
2013	16-Apr-13	3					2045.6			1215.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Apr-13	4					2047.1			1303.7
2013	16-Apr-13	5					2288.5			1377.3
2013	16-Apr-13	6					2749.4			1287.9
2013	16-Apr-13	7					3226			1011
2013	16-Apr-13	8					3430.3			1054.3
2013	16-Apr-13	9					3467.2			939.2
2013	16-Apr-13	10					3595.8			1559.9
2013	16-Apr-13	11					3561.3			1944.8
2013	16-Apr-13	12					3576.7			2034.2
2013	16-Apr-13	13					3597.1			2367.3
2013	16-Apr-13	14					3644.9			2009.9
2013	16-Apr-13	15					3685			1345.8
2013	16-Apr-13	16					3696.8			1013.9
2013	16-Apr-13	17					3616.4			958.7
2013	16-Apr-13	18					3585.8			975.1
2013	16-Apr-13	19					3671.7			1037.1
2013	16-Apr-13	20					3626.6			1059
2013	16-Apr-13	21					3413.9			843.7
2013	16-Apr-13	22					3246.7			721.5
2013	16-Apr-13	23					3002.2			529.2
2013	17-Apr-13	0					2653.6			488.8
2013	17-Apr-13	1					2466.4			465.6
2013	17-Apr-13	2					2176.6			457.1
2013	17-Apr-13	3					2118.1			459.1
2013	17-Apr-13	4					2435.3			475.7
2013	17-Apr-13	5					2946.9			596.6
2013	17-Apr-13	6					3128.1			649.9
2013	17-Apr-13	7					3496.1			736.2
2013	17-Apr-13	8					3673.2			865.5
2013	17-Apr-13	9					3485.2			745.2
2013	17-Apr-13	10					3521.2			818.9
2013	17-Apr-13	11					3716.5			895.3
2013	17-Apr-13	12					3766.9			909.3
2013	17-Apr-13	13					3748.8			969
2013	17-Apr-13	14					3688.3			841.7
2013	17-Apr-13	15					3703			973.2
2013	17-Apr-13	16					3705.7			813.7
2013	17-Apr-13	17					3661.3			798.5
2013	17-Apr-13	18					3644.4			850.9
2013	17-Apr-13	19					3668.8			843.5
2013	17-Apr-13	20					3667.2			811.6
2013	17-Apr-13	21					3606.5			791.8
2013	17-Apr-13	22					3557.5			658.4
2013	17-Apr-13	23					3288.8			492.5



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	18-Apr-13	0					2917.6			407.4
2013	18-Apr-13	1			0.02		2573.5			408.7
2013	18-Apr-13	2			0.069		2412.7			416.5
2013	18-Apr-13	3			0.069		2194.9			408.5
2013	18-Apr-13	4			0.067		2166.8			426.6
2013	18-Apr-13	5			0.077		2429.6			428.3
2013	18-Apr-13	6			0.067		2846.3			495.2
2013	18-Apr-13	7			0.069		3189.1			599.9
2013	18-Apr-13	8			0.087		3461.8			679.5
2013	18-Apr-13	9			0.115		3551.3			718.8
2013	18-Apr-13	10			0.257		3371.3			721.3
2013	18-Apr-13	11			0.263		3236.8			864.1
2013	18-Apr-13	12			0.269		3267.4			805.3
2013	18-Apr-13	13			0.465		3509.7			746.4
2013	18-Apr-13	14			0.723		3644.5			846.6
2013	18-Apr-13	15			0.488		3610.8			765.3
2013	18-Apr-13	16			0.411		3585.3			698.7
2013	18-Apr-13	17			0.306		3535.3			585.9
2013	18-Apr-13	18			0.265		3342.9			499
2013	18-Apr-13	19			0.31		3497.3			565.6
2013	18-Apr-13	20			0.335		3617.5			610.8
2013	18-Apr-13	21			0.16		3439.8			459.5
2013	18-Apr-13	22			0.035		3359.3			427.6
2013	18-Apr-13	23			0.035		3136.4			424.7
2013	19-Apr-13	0			0.035		2686.5			420.5
2013	19-Apr-13	1			0.035		2462.3			418.5
2013	19-Apr-13	2			0.044		2232.8			414.1
2013	19-Apr-13	3			0.136		2216.1			418.5
2013	19-Apr-13	4			0.284		2234.2			414.1
2013	19-Apr-13	5			0.489		2378			501.1
2013	19-Apr-13	6			0.657		2702.2			500.8
2013	19-Apr-13	7			0.656		3116.4			602.4
2013	19-Apr-13	8			0.643		3362.2			623.5
2013	19-Apr-13	9			0.443		3528.8			522.8
2013	19-Apr-13	10			0.265		3556.5			449.1
2013	19-Apr-13	11			0.268		3584.8			430.3
2013	19-Apr-13	12			0.318		3658.3			587
2013	19-Apr-13	13			0.315		3672.1			632.1
2013	19-Apr-13	14			0.273		3683.6			746.3
2013	19-Apr-13	15			0.259		3712.9			538.1
2013	19-Apr-13	16			0.26		3591.5			901.4
2013	19-Apr-13	17			0.267		3502.9			997.3
2013	19-Apr-13	18			0.249		3354.1			986.9
2013	19-Apr-13	19			0.259		3458.4			926.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	19-Apr-13	20			0.282		3543.9			685.2
2013	19-Apr-13	21			0.135		3251.9			728.5
2013	19-Apr-13	22					2810.9			490
2013	19-Apr-13	23					2565.2			911.6
2013	20-Apr-13	0					2711.9			10.728
2013	20-Apr-13	1	0				2459.5			
2013	20-Apr-13	2	0				2219.6			
2013	20-Apr-13	3	0				2164.3			
2013	20-Apr-13	4	0				2242.8			
2013	20-Apr-13	5	0				2500.7			
2013	20-Apr-13	6	0				2527.7			
2013	20-Apr-13	7	0				3049			
2013	20-Apr-13	8	0				3532			
2013	20-Apr-13	9	0				3667.9			
2013	20-Apr-13	10	0				3630.3			
2013	20-Apr-13	11	0				3552.4			
2013	20-Apr-13	12	0				3326.8			
2013	20-Apr-13	13	0				2805			
2013	20-Apr-13	14	0				2496.3			
2013	20-Apr-13	15	0				2327.7			
2013	20-Apr-13	16	0				2391.8			
2013	20-Apr-13	17	0				2272.5			
2013	20-Apr-13	18	0				2288.5			
2013	20-Apr-13	19	0				2643.9			
2013	20-Apr-13	20	0				3056.3			
2013	20-Apr-13	21	0				3517			
2013	20-Apr-13	22	0				3533.8			
2013	20-Apr-13	23	0				3314.3			
2013	21-Apr-13	0	0				2728.1			
2013	21-Apr-13	1	0				2417.6			
2013	21-Apr-13	2	0				2340.3			
2013	21-Apr-13	3	0				2392.1			
2013	21-Apr-13	4	0				2447			
2013	21-Apr-13	5	0				2375.5			
2013	21-Apr-13	6	0				2411.9			
2013	21-Apr-13	7	0				2757.8			
2013	21-Apr-13	8	0				3266.9			
2013	21-Apr-13	9	0				3181.3			
2013	21-Apr-13	10	1				2828.9			
2013	21-Apr-13	11	0				2552.2			
2013	21-Apr-13	12	3.9				2355.9			
2013	21-Apr-13	13	0				2306.1			
2013	21-Apr-13	14	0				2182.6			
2013	21-Apr-13	15	0				2304.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	21-Apr-13	16	0				2764.4			
2013	21-Apr-13	17	0				3172.6			
2013	21-Apr-13	18	0		0.077		3499.8			
2013	21-Apr-13	19	0		0.068		3645.2			
2013	21-Apr-13	20	0		0.068		3497.8			
2013	21-Apr-13	21	0		0.069		3025.9			
2013	21-Apr-13	22	0		0.069		2587.7			
2013	21-Apr-13	23	1.3		0.064		2220.7			
2013	22-Apr-13	0	4		0.063		2130.9			
2013	22-Apr-13	1	4		0.062		2158.2			
2013	22-Apr-13	2	5.4		0.06		2158.6			
2013	22-Apr-13	3	11.7		0.084		2169.8			
2013	22-Apr-13	4	17		0.25		2300			
2013	22-Apr-13	5	20		0.332		2872.8			
2013	22-Apr-13	6	23.2		0.674		3624.4			
2013	22-Apr-13	7	75.7		0.825		3690.2			
2013	22-Apr-13	8	160		0.82		3701.6			
2013	22-Apr-13	9	193.7		0.822		3729			
2013	22-Apr-13	10	254		0.822		3741.6			
2013	22-Apr-13	11	151.2		0.822		3745.9			
2013	22-Apr-13	12	143.2		0.719		3723.5			
2013	22-Apr-13	13	213.2		0.42		3517.2			
2013	22-Apr-13	14	154.8		0.233		3510.5			
2013	22-Apr-13	15	178.8		0.36		3652			
2013	22-Apr-13	16	150.5		0.341		3510.3			
2013	22-Apr-13	17	113.7		0.397		3452.5			
2013	22-Apr-13	18	137.6		0.823		3670.2			
2013	22-Apr-13	19	164.1		0.85		3577.5			
2013	22-Apr-13	20	139.9		0.811		3547.7			
2013	22-Apr-13	21	61.2		0.169		3151.7			
2013	22-Apr-13	22	41				2560.8			
2013	22-Apr-13	23	27.5				2468.4			
2013	23-Apr-13	0	21.8				2291.4			
2013	23-Apr-13	1	38.3				2215.1			
2013	23-Apr-13	2	73.5				2186.9			
2013	23-Apr-13	3	82				2181.1			
2013	23-Apr-13	4	85.1				2432.6			
2013	23-Apr-13	5	92.9				2904.1			
2013	23-Apr-13	6	119.5				3425.5			
2013	23-Apr-13	7	176.5				3695.8			
2013	23-Apr-13	8	278.2				3750			
2013	23-Apr-13	9	482.5				3795.4			
2013	23-Apr-13	10	547.5				3828.8			
2013	23-Apr-13	11	714.4				3796.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	23-Apr-13	12	912.4				3806			
2013	23-Apr-13	13	1015.6				3785.1			
2013	23-Apr-13	14	1067				3776.9			
2013	23-Apr-13	15	1128.5				3791			
2013	23-Apr-13	16	1027.2				3801			
2013	23-Apr-13	17	1080.6				3793.7			
2013	23-Apr-13	18	915.7				3544.7			
2013	23-Apr-13	19	1086.4				3751.3			
2013	23-Apr-13	20	966.1				3739.9			
2013	23-Apr-13	21	895.4				3414.9			
2013	23-Apr-13	22	630.3				2955.1			
2013	23-Apr-13	23	437.1				2497.6			
2013	24-Apr-13	0	364.2				2271.4			
2013	24-Apr-13	1	355.4				2230.9			
2013	24-Apr-13	2	307.9				2216.1			
2013	24-Apr-13	3	265.6				2219.3			
2013	24-Apr-13	4	328.5				2264.8			
2013	24-Apr-13	5	379.6				2623.6			
2013	24-Apr-13	6	569.2				3289.9			
2013	24-Apr-13	7	461.6				3733.7			
2013	24-Apr-13	8	554.2				3813.1			
2013	24-Apr-13	9	1011.9				3844.1			
2013	24-Apr-13	10	1215.8				3879			
2013	24-Apr-13	11	1273.1				3814.9			
2013	24-Apr-13	12	1224.3				3835.4			
2013	24-Apr-13	13	1385				3953.9			
2013	24-Apr-13	14	1436.7				3917.7			
2013	24-Apr-13	15	626.2				3820.7			
2013	24-Apr-13	16	361.8				3865.7			
2013	24-Apr-13	17	340.3				3915			
2013	24-Apr-13	18	477.3				3906.4			
2013	24-Apr-13	19	495.4				3891.1			
2013	24-Apr-13	20	390.2				3822.1			
2013	24-Apr-13	21	309.2				3442.2			
2013	24-Apr-13	22	227				3397.9			
2013	24-Apr-13	23	170				3303			
2013	25-Apr-13	0	145.4				2755.4			
2013	25-Apr-13	1	104.4				2384.5			
2013	25-Apr-13	2	84				2224.9			
2013	25-Apr-13	3	82.4				2250.3			
2013	25-Apr-13	4	81.3				2261			
2013	25-Apr-13	5	66.5				2449.4			
2013	25-Apr-13	6	68.6				2525.5			
2013	25-Apr-13	7	63.1				2676.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	25-Apr-13	8	34.7				2722.9			
2013	25-Apr-13	9	32.2				2912.7			
2013	25-Apr-13	10	32.5				2807.7			
2013	25-Apr-13	11	35.1				2929.4			
2013	25-Apr-13	12	79.9				3322.6			
2013	25-Apr-13	13	128				3037.8			
2013	25-Apr-13	14	118.6				2655			
2013	25-Apr-13	15	95.5				2938.7			
2013	25-Apr-13	16	100.4				2829.7			
2013	25-Apr-13	17	103				2602.4			
2013	25-Apr-13	18	124.8				2291.7			
2013	25-Apr-13	19	157.2				2673.6			
2013	25-Apr-13	20	257.2				3196.9			
2013	25-Apr-13	21	182.9				2966.4			
2013	25-Apr-13	22	129.6				2592.6			
2013	25-Apr-13	23	108.2		0.039		2350.1			
2013	26-Apr-13	0	104.8		0.057		2212.8			
2013	26-Apr-13	1	80.5		0.088		2175.1			
2013	26-Apr-13	2	60.8		0.088		2155.6			
2013	26-Apr-13	3	55		0.08		2167.8			
2013	26-Apr-13	4	58.8				2338.1			
2013	26-Apr-13	5	68.6				2869.5			
2013	26-Apr-13	6	98.8				3360			
2013	26-Apr-13	7	125.6				3619.5			
2013	26-Apr-13	8	149.4				3564.4			
2013	26-Apr-13	9	241.9				3415.2			
2013	26-Apr-13	10	408.6				3545.3			
2013	26-Apr-13	11	578.6				3509.3			
2013	26-Apr-13	12	200.4				3327.7			
2013	26-Apr-13	13	404.1				3422.7			
2013	26-Apr-13	14	634.2				3589.2			
2013	26-Apr-13	15	608				3424.5			
2013	26-Apr-13	16	491.2				3178.9			
2013	26-Apr-13	17	336.2				2937			
2013	26-Apr-13	18	219.6				2793.7			
2013	26-Apr-13	19	255.2				2936.7			
2013	26-Apr-13	20	352				3341.3			
2013	26-Apr-13	21	279.6				2975.4			
2013	26-Apr-13	22	197.8				2605.3			
2013	26-Apr-13	23	172.1				2342.2			
2013	27-Apr-13	0	156.2							
2013	27-Apr-13	1	178.7							
2013	27-Apr-13	2	185.6							
2013	27-Apr-13	3	187.1							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Apr-13	4	168.8							
2013	27-Apr-13	5	162.9							
2013	27-Apr-13	6	125.8							
2013	27-Apr-13	7	106.3							
2013	27-Apr-13	8	60.8							
2013	27-Apr-13	9	46							
2013	27-Apr-13	10	78.6							
2013	27-Apr-13	11	47.9							
2013	27-Apr-13	12	65.3							
2013	27-Apr-13	13	58.6							
2013	27-Apr-13	14	43.2							
2013	27-Apr-13	15	63.3							
2013	27-Apr-13	16	122.9							
2013	27-Apr-13	17	175.7							
2013	27-Apr-13	18	133.7							
2013	27-Apr-13	19	180.8							
2013	27-Apr-13	20	212.6							
2013	27-Apr-13	21	138.7							
2013	27-Apr-13	22	132.6							
2013	27-Apr-13	23	113.9							
2013	28-Apr-13	0	148.6							
2013	28-Apr-13	1	155.6							
2013	28-Apr-13	2	125.1							
2013	28-Apr-13	3	100.4							
2013	28-Apr-13	4	116.7							
2013	28-Apr-13	5	112.3							
2013	28-Apr-13	6	86							
2013	28-Apr-13	7	62.3							
2013	28-Apr-13	8	40.4							
2013	28-Apr-13	9	39.2							
2013	28-Apr-13	10	54.7							
2013	28-Apr-13	11	52.7							
2013	28-Apr-13	12	23.8							
2013	28-Apr-13	13	13.7							
2013	28-Apr-13	14	10.8							
2013	28-Apr-13	15	12.7							
2013	28-Apr-13	16	74.2							
2013	28-Apr-13	17	248.5							
2013	28-Apr-13	18	285.4							
2013	28-Apr-13	19	275.6							
2013	28-Apr-13	20	544.9							
2013	28-Apr-13	21	453.7							
2013	28-Apr-13	22	274.9							
2013	28-Apr-13	23	240.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	29-Apr-13	0	225.3							
2013	29-Apr-13	1	184.9							
2013	29-Apr-13	2	166.4							
2013	29-Apr-13	3	140.5							
2013	29-Apr-13	4	164.9							
2013	29-Apr-13	5	414.8							
2013	29-Apr-13	6	743.3							
2013	29-Apr-13	7	761.3							
2013	29-Apr-13	8	669.8							
2013	29-Apr-13	9	806.5							
2013	29-Apr-13	10	808.3							
2013	29-Apr-13	11	837.1							
2013	29-Apr-13	12	870.1							
2013	29-Apr-13	13	1012.6							
2013	29-Apr-13	14	1110							
2013	29-Apr-13	15	1058.3							
2013	29-Apr-13	16	1067.3							
2013	29-Apr-13	17	1009.9							
2013	29-Apr-13	18	742.6							
2013	29-Apr-13	19	673.1							
2013	29-Apr-13	20	678.1							
2013	29-Apr-13	21	647.2							
2013	29-Apr-13	22	485.3							
2013	29-Apr-13	23	185.5							
2013	30-Apr-13	0	67.2							
2013	30-Apr-13	1	58.3							
2013	30-Apr-13	2	128.1							
2013	30-Apr-13	3	152.9							
2013	30-Apr-13	4	232.6							
2013	30-Apr-13	5	573.8							
2013	30-Apr-13	6	411.6							
2013	30-Apr-13	7	168							
2013	30-Apr-13	8	139.9							
2013	30-Apr-13	9	119.8							
2013	30-Apr-13	10	110.6							
2013	30-Apr-13	11	105.4							
2013	30-Apr-13	12	109.4							
2013	30-Apr-13	13	124.1							
2013	30-Apr-13	14	136.1							
2013	30-Apr-13	15	178.2							
2013	30-Apr-13	16	73.4							
2013	30-Apr-13	17	74.5							
2013	30-Apr-13	18	64.2							
2013	30-Apr-13	19	91.7							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	30-Apr-13	20	170.7							
2013	30-Apr-13	21	161.9							
2013	30-Apr-13	22	143							
2013	30-Apr-13	23	108.6							
2013	1-May-13	0	95.1							
2013	1-May-13	1	117.3							
2013	1-May-13	2	83.9							
2013	1-May-13	3	75.4							
2013	1-May-13	4	84.6							
2013	1-May-13	5	100.8							
2013	1-May-13	6	140.7							
2013	1-May-13	7	105.4							
2013	1-May-13	8	111.8							
2013	1-May-13	9	128							
2013	1-May-13	10	171							
2013	1-May-13	11	342.2							
2013	1-May-13	12	433.1							
2013	1-May-13	13	486.7							
2013	1-May-13	14	445.4							
2013	1-May-13	15	627.5							
2013	1-May-13	16	1048.5							
2013	1-May-13	17	1081.2							
2013	1-May-13	18	860							
2013	1-May-13	19	674.9							
2013	1-May-13	20	1033.2							
2013	1-May-13	21	875							
2013	1-May-13	22	736.7							
2013	1-May-13	23	406.5							
2013	2-May-13	0	221.2							
2013	2-May-13	1	195.5							
2013	2-May-13	2	167.3							
2013	2-May-13	3	119.2							
2013	2-May-13	4	142.3							
2013	2-May-13	5	336							
2013	2-May-13	6	289.2							
2013	2-May-13	7	150.3							
2013	2-May-13	8	151.1							
2013	2-May-13	9	148.9							
2013	2-May-13	10	162.7							
2013	2-May-13	11	165.4							
2013	2-May-13	12	164.9							
2013	2-May-13	13	312.5							
2013	2-May-13	14	521.1							
2013	2-May-13	15	389.7							



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	2-May-13	16	301.4							
2013	2-May-13	17	266.9							
2013	2-May-13	18	230.5							
2013	2-May-13	19	207.5							3.2
2013	2-May-13	20	239							1.6
2013	2-May-13	21	304.8							0.08
2013	2-May-13	22	229.3							
2013	2-May-13	23	180.2							
2013	3-May-13	0	127.8							
2013	3-May-13	1	177.8							
2013	3-May-13	2	209.2							
2013	3-May-13	3	217.9							
2013	3-May-13	4	242.7							
2013	3-May-13	5	170.2							
2013	3-May-13	6	122.9							
2013	3-May-13	7	129.2							
2013	3-May-13	8	153.1							
2013	3-May-13	9	258.5							
2013	3-May-13	10	209.5							
2013	3-May-13	11	188.4							
2013	3-May-13	12	251.6							
2013	3-May-13	13	312.5							
2013	3-May-13	14	349.4							
2013	3-May-13	15	345.1							
2013	3-May-13	16	347.6							
2013	3-May-13	17	314.3							
2013	3-May-13	18	193.5							
2013	3-May-13	19	159.7							
2013	3-May-13	20	62.7							
2013	3-May-13	21	134.9							
2013	3-May-13	22	135.7							
2013	3-May-13	23	129.8							
2013	4-May-13	0	120.7							
2013	4-May-13	1	152.4							
2013	4-May-13	2	155.1							
2013	4-May-13	3	149.2							
2013	4-May-13	4	173.7							
2013	4-May-13	5	180.8							
2013	4-May-13	6	166							
2013	4-May-13	7	160.7							
2013	4-May-13	8	181							
2013	4-May-13	9	208.6							
2013	4-May-13	10	186.1							
2013	4-May-13	11	223.7							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	4-May-13	12	288.9							
2013	4-May-13	13	378.3							
2013	4-May-13	14	285.7							
2013	4-May-13	15	248.6							
2013	4-May-13	16	263.2							
2013	4-May-13	17	325.3							
2013	4-May-13	18	326.3							
2013	4-May-13	19	365							
2013	4-May-13	20	372.2							
2013	4-May-13	21	318.1							
2013	4-May-13	22	291							
2013	4-May-13	23	340.2							
2013	5-May-13	0	397.4							
2013	5-May-13	1	342.5							
2013	5-May-13	2	285							
2013	5-May-13	3	261.7							
2013	5-May-13	4	257.3							
2013	5-May-13	5	267.4							
2013	5-May-13	6	282.8							
2013	5-May-13	7	218.1							
2013	5-May-13	8	191							
2013	5-May-13	9	221.6							
2013	5-May-13	10	205.5							
2013	5-May-13	11	222							
2013	5-May-13	12	259.5							
2013	5-May-13	13	316.1							
2013	5-May-13	14	304.8							
2013	5-May-13	15	301.6							
2013	5-May-13	16	328							
2013	5-May-13	17	338.6							
2013	5-May-13	18	328.8							
2013	5-May-13	19	329.3							
2013	5-May-13	20	336.8							
2013	5-May-13	21	322.6							
2013	5-May-13	22	285.9							
2013	5-May-13	23	282							
2013	6-May-13	0	292.5							
2013	6-May-13	1	292.6							
2013	6-May-13	2	276							
2013	6-May-13	3	283.3							
2013	6-May-13	4	288.6							
2013	6-May-13	5	321.4							
2013	6-May-13	6	311.3							
2013	6-May-13	7	244							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	6-May-13	8	236.4							
2013	6-May-13	9	321.1							
2013	6-May-13	10	343.1							
2013	6-May-13	11	340							
2013	6-May-13	12	230.6							
2013	6-May-13	13	295.4							
2013	6-May-13	14	254.6							
2013	6-May-13	15	272.3							
2013	6-May-13	16	336.2							
2013	6-May-13	17	486.1							
2013	6-May-13	18	514.3							
2013	6-May-13	19	664.9							
2013	6-May-13	20	578.9							
2013	6-May-13	21	226.3							
2013	6-May-13	22	257.8							
2013	6-May-13	23	574							
2013	7-May-13	0	640.1							
2013	7-May-13	1	527.3							
2013	7-May-13	2	504							
2013	7-May-13	3	494.6							
2013	7-May-13	4	504.1							
2013	7-May-13	5	513.3							
2013	7-May-13	6	468.8							
2013	7-May-13	7	439.5							
2013	7-May-13	8	473.2							
2013	7-May-13	9	460.4							
2013	7-May-13	10	418.5							
2013	7-May-13	11	458.1							
2013	7-May-13	12	555.3							
2013	7-May-13	13	674.8							
2013	7-May-13	14	1005.7							
2013	7-May-13	15	1282.5							
2013	7-May-13	16	1442.1							
2013	7-May-13	17	1217.4							
2013	7-May-13	18	898.2							
2013	7-May-13	19	1028.8							
2013	7-May-13	20	1064.3							
2013	7-May-13	21	749.4							
2013	7-May-13	22	603.3							
2013	7-May-13	23	469.7							
2013	8-May-13	0	314.2							
2013	8-May-13	1	312.2							
2013	8-May-13	2	325.3							
2013	8-May-13	3	531.2							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	8-May-13	4	785.2							
2013	8-May-13	5	1075.4							
2013	8-May-13	6	1078.2							
2013	8-May-13	7	1027.1							
2013	8-May-13	8	1125.7							
2013	8-May-13	9	1198.3							
2013	8-May-13	10	1187							
2013	8-May-13	11	1230.6							
2013	8-May-13	12	1027.1							
2013	8-May-13	13	666.4							
2013	8-May-13	14	699.2							
2013	8-May-13	15	733.6							
2013	8-May-13	16	650.8							
2013	8-May-13	17	499.5							
2013	8-May-13	18	643.7							
2013	8-May-13	19	510.5							
2013	8-May-13	20	551							
2013	8-May-13	21	540.1							
2013	8-May-13	22	332.1							
2013	8-May-13	23	230.9							
2013	9-May-13	0	169.4							
2013	9-May-13	1	154.7							
2013	9-May-13	2	130.9		0.051					
2013	9-May-13	3	239.7		0.203					
2013	9-May-13	4	426.7		0.244					
2013	9-May-13	5	656.8		0.243					
2013	9-May-13	6	709.9		0.248					
2013	9-May-13	7	530.6		0.244					
2013	9-May-13	8	620.8		0.312					
2013	9-May-13	9	731.5		0.47	0				
2013	9-May-13	10	638.2		0.567	0				
2013	9-May-13	11	635.7		0.445	6.7				
2013	9-May-13	12	690.2		0.331	1.3			0	1.8
2013	9-May-13	13	837.7		0.356	0			0	4.2
2013	9-May-13	14	856.8		0.351	0			0	5.6
2013	9-May-13	15	813.2		0.286	0			1	28.9
2013	9-May-13	16	805.3		0.332	0			8.7	62.1
2013	9-May-13	17	890.5		0.419	0			22.6	5.8
2013	9-May-13	18	1003.6		0.582	0			43.8	36
2013	9-May-13	19	945.9		0.747	0			41.9	32.3
2013	9-May-13	20	817.3		0.818	0			54.8	28.7
2013	9-May-13	21	904.4		0.115	0			52.1	23.7
2013	9-May-13	22	879.1						61.1	47
2013	9-May-13	23	525.3						61.6	12.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	10-May-13	0	316						74.4	48.6
2013	10-May-13	1	475.9		0.066				73	72
2013	10-May-13	2	398.4		0.085				71.9	169.2
2013	10-May-13	3	360.2		0.169				78.5	214.2
2013	10-May-13	4	403.8		0.256				68.8	315.4
2013	10-May-13	5	427		0.284				38.9	383.3
2013	10-May-13	6	382.2		0.29				24.339	583.4
2013	10-May-13	7	272.1		0.275					789.8
2013	10-May-13	8	242.1		0.284					725.1
2013	10-May-13	9	338.6		0.276					654.1
2013	10-May-13	10	323.2		0.308					595.4
2013	10-May-13	11	234.5		0.407					597.2
2013	10-May-13	12	283.3		0.7					695
2013	10-May-13	13	349		0.686					662.8
2013	10-May-13	14	775.6		0.601					621.1
2013	10-May-13	15	996.7		0.775					768.7
2013	10-May-13	16	892.7		0.781					752.5
2013	10-May-13	17	999.3		0.738					737.5
2013	10-May-13	18	909.2		0.771					768.9
2013	10-May-13	19	978.8		0.876					801.1
2013	10-May-13	20	884.1		0.662					767.2
2013	10-May-13	21	436.2		0.06					541.1
2013	10-May-13	22	300.1							426.5
2013	10-May-13	23	213.6							430.2
2013	11-May-13	0	138.3							480
2013	11-May-13	1	127.6							877.8
2013	11-May-13	2	111.5							1450
2013	11-May-13	3	104.6							344.348
2013	11-May-13	4	104.1							
2013	11-May-13	5	119							
2013	11-May-13	6	121.4							
2013	11-May-13	7	95.8							
2013	11-May-13	8	119.2							
2013	11-May-13	9	212.5							
2013	11-May-13	10	185.3							
2013	11-May-13	11	224							
2013	11-May-13	12	417.4							
2013	11-May-13	13	647.9							
2013	11-May-13	14	879.3							
2013	11-May-13	15	982.7							
2013	11-May-13	16	996.7							
2013	11-May-13	17	709.7							
2013	11-May-13	18	491.8							
2013	11-May-13	19	521.5							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	11-May-13	20	452.5							
2013	11-May-13	21	285.9							
2013	11-May-13	22	257.5							
2013	11-May-13	23	519.7							
2013	12-May-13	0	520.1							
2013	12-May-13	1	505.7							
2013	12-May-13	2	412.8							
2013	12-May-13	3	157.3							
2013	12-May-13	4	133.2							
2013	12-May-13	5	131.9							
2013	12-May-13	6	126.9							
2013	12-May-13	7	84.5							
2013	12-May-13	8	54.1							
2013	12-May-13	9	82.5							
2013	12-May-13	10	91.3							
2013	12-May-13	11	85.3							
2013	12-May-13	12	82.9			0				
2013	12-May-13	13	123.7			0				
2013	12-May-13	14	131.9			4.6				
2013	12-May-13	15	98.6			0.1				
2013	12-May-13	16	93			0				
2013	12-May-13	17	104.8			0				
2013	12-May-13	18	93.2			0				
2013	12-May-13	19	96.4			0				
2013	12-May-13	20	115.3			0				
2013	12-May-13	21	111.3			0				
2013	12-May-13	22	93.7			0				
2013	12-May-13	23	84.6			0				
2013	13-May-13	0	84.5			0				
2013	13-May-13	1	94.1			0				
2013	13-May-13	2	82			0				
2013	13-May-13	3	73.9			0				
2013	13-May-13	4	73.1			0				
2013	13-May-13	5	90.7			0				
2013	13-May-13	6	81.6			0				
2013	13-May-13	7	66.6			12.3				
2013	13-May-13	8	79			1.2				
2013	13-May-13	9	107.7			0				
2013	13-May-13	10	122			0				
2013	13-May-13	11	197.5			0				
2013	13-May-13	12	241.5			0				
2013	13-May-13	13	287.1			0				
2013	13-May-13	14	245.3			0				
2013	13-May-13	15	270.8			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	13-May-13	16	302.3			0				
2013	13-May-13	17	368.9			0				
2013	13-May-13	18	322.6			59.7				
2013	13-May-13	19	329.5			300.1				
2013	13-May-13	20	489.8			420.5				
2013	13-May-13	21	440.5			539.3				
2013	13-May-13	22	347.5			633.4				
2013	13-May-13	23	368.2			645.4				
2013	14-May-13	0	419.3			644.5				
2013	14-May-13	1	437.5			644.7				
2013	14-May-13	2	377.1			652.2				
2013	14-May-13	3	326.4			613.9				
2013	14-May-13	4	374			620.1				
2013	14-May-13	5	423.8			671.1				
2013	14-May-13	6	359.6			724.575				
2013	14-May-13	7	272							
2013	14-May-13	8	271.9							
2013	14-May-13	9	310.1							
2013	14-May-13	10	220							
2013	14-May-13	11	332.2							
2013	14-May-13	12	423.3							
2013	14-May-13	13	439.8							
2013	14-May-13	14	313.2							
2013	14-May-13	15	309							
2013	14-May-13	16	478.9							
2013	14-May-13	17	498.3							
2013	14-May-13	18	572.3							
2013	14-May-13	19	466.7							
2013	14-May-13	20	516							
2013	14-May-13	21	467.2							
2013	14-May-13	22	289.6							
2013	14-May-13	23	258.9							
2013	15-May-13	0	317.7		0.015					
2013	15-May-13	1	360.3		0.043					
2013	15-May-13	2	290.9		0.051					
2013	15-May-13	3	300		0.065					
2013	15-May-13	4	581.4		0.073					
2013	15-May-13	5	1167.3		0.083					
2013	15-May-13	6	893.4		0.075					
2013	15-May-13	7	675.7		0.067					
2013	15-May-13	8	620.2		0.067					
2013	15-May-13	9	649.7		0.076					
2013	15-May-13	10	586.9		0.191					
2013	15-May-13	11	625		0.312					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	15-May-13	12	720.7		0.27					
2013	15-May-13	13	604.4		0.283					
2013	15-May-13	14	602.6		0.655				0	3
2013	15-May-13	15	770.5		0.873				0	14.6
2013	15-May-13	16	849.4		0.827				18.3	18.3
2013	15-May-13	17	1049.6		0.821				40.2	1.8
2013	15-May-13	18	1178.7		0.821				45.8	7.2
2013	15-May-13	19	1069.8		0.794				45.6	28.9
2013	15-May-13	20	793.6		0.737				45.7	33.1
2013	15-May-13	21	585.3		0.153				45.8	23
2013	15-May-13	22	551.7						45.9	6.3
2013	15-May-13	23	357.7						45.9	2.4
2013	16-May-13	0	245.3						47.7	77.5
2013	16-May-13	1	163						53.3	144.8
2013	16-May-13	2	100.3						52.8	251.7
2013	16-May-13	3	93.3						50.2	479.5
2013	16-May-13	4	300.3						45.4	431.8
2013	16-May-13	5	383.4		0.051				42.8	430.8
2013	16-May-13	6	431.5		0.051				177.2	444.8
2013	16-May-13	7	522.2		0.091				235.1	442.4
2013	16-May-13	8	510.9		0.244				359.4	439.3
2013	16-May-13	9	521.8		0.318				370.8	519.6
2013	16-May-13	10	226.9		0.543				366.5	898.3
2013	16-May-13	11	184.2		0.79				466.2	835.1
2013	16-May-13	12	234.5		0.592				462.4	728.7
2013	16-May-13	13	286.8		0.505				489.8	698.4
2013	16-May-13	14	386.3		0.548				504.2	739.3
2013	16-May-13	15	309.9		0.826				644.1	863.2
2013	16-May-13	16	309.9		0.82				684.4	842
2013	16-May-13	17	385.8		0.687				602.6	738.8
2013	16-May-13	18	408.6		0.398				527.7	686.6
2013	16-May-13	19	386.8		0.31				532.3	681.5
2013	16-May-13	20	326.3		0.266				537.4	689.5
2013	16-May-13	21	158.3		0.076				526.9	693.8
2013	16-May-13	22	140.1						529.4	692
2013	16-May-13	23	196.1			0			551	512.4
2013	17-May-13	0	215.3			3.7			557.6	203.312
2013	17-May-13	1	324.7			4.4			501.2	
2013	17-May-13	2	260.2			0			422.8	
2013	17-May-13	3	211.2			0			311.1	
2013	17-May-13	4	206.8			0			297.1	
2013	17-May-13	5	276.5			0			182.925	
2013	17-May-13	6	224.5			0				
2013	17-May-13	7	163.8		0.031	11.9				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	17-May-13	8	154.8		0.106	0.8				
2013	17-May-13	9	490.9		0.292	0				
2013	17-May-13	10	837		0.648	0				
2013	17-May-13	11	726.3		0.851	0				
2013	17-May-13	12	954.7		0.87	94.7				
2013	17-May-13	13	904.2		0.873	528.4				
2013	17-May-13	14	1019.8		0.877	771.9				
2013	17-May-13	15	878.6		0.88	1082.6				
2013	17-May-13	16	757.1		0.887	1378.4				
2013	17-May-13	17	866.8		0.877	1555.3				
2013	17-May-13	18	831.4		0.775	1601.2				
2013	17-May-13	19	769		0.663	1652.1				
2013	17-May-13	20	740.3		0.26	1691.7				
2013	17-May-13	21	689.3			1504.6				
2013	17-May-13	22	580.6			83.552				
2013	17-May-13	23	395							
2013	18-May-13	0	342.7							
2013	18-May-13	1	358							
2013	18-May-13	2	220							
2013	18-May-13	3	194.5							
2013	18-May-13	4	255.9							
2013	18-May-13	5	246.6	0						
2013	18-May-13	6	183.2	0						
2013	18-May-13	7	143.1	0						
2013	18-May-13	8	88.3	0						
2013	18-May-13	9	135.7	5.2						
2013	18-May-13	10	141.7	3.5						
2013	18-May-13	11	188.2	1.7						
2013	18-May-13	12	319.2	0.9						
2013	18-May-13	13	271.8	1.7						
2013	18-May-13	14	156.9	0.8						
2013	18-May-13	15	139.9	0.8						
2013	18-May-13	16	157.6	0.8						
2013	18-May-13	17	186	0.8						
2013	18-May-13	18	147.6	0						
2013	18-May-13	19	142.7	0.8						
2013	18-May-13	20	156.3	0						
2013	18-May-13	21	171.6	0.8						
2013	18-May-13	22	137.5	0						
2013	18-May-13	23	131.4	0.8						
2013	19-May-13	0	165.7	0						
2013	19-May-13	1	212	0						
2013	19-May-13	2	180	0						
2013	19-May-13	3	168.4	0						

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	19-May-13	4	166	0						
2013	19-May-13	5	173.1	0						
2013	19-May-13	6	143.3	0						
2013	19-May-13	7	106	0						
2013	19-May-13	8	65	5.7						
2013	19-May-13	9	86.4	2.5						1.7
2013	19-May-13	10	84.5	2.1						4.4
2013	19-May-13	11	81.9	2.1						19.1
2013	19-May-13	12	103.8	2.2						17.1
2013	19-May-13	13	153.5	5.1						15.3
2013	19-May-13	14	125.6	4						1.4
2013	19-May-13	15	239.5	6.8						16.9
2013	19-May-13	16	808.3	5.4						33.3
2013	19-May-13	17	1406.1	6.8						1.3
2013	19-May-13	18	1505.8	7.5						6.8
2013	19-May-13	19	1032.1	10.9						44.4
2013	19-May-13	20	1035.5	9.3						158.6
2013	19-May-13	21	775	10.8						406.2
2013	19-May-13	22	620	17.6	0.034					351.9
2013	19-May-13	23	340.5	56.9	0.071					424.5
2013	20-May-13	0	546.9	52.3	0.086					436.1
2013	20-May-13	1	534.4	46.8	0.08					502
2013	20-May-13	2	443.1	58.9	0.039					532.2
2013	20-May-13	3	451.1	120.5	0.056					559.6
2013	20-May-13	4	496.1	120.4	0.134					615.9
2013	20-May-13	5	573.8	137.3	0.261					719.4
2013	20-May-13	6	538.6	134.4	0.231					601.7
2013	20-May-13	7	860.1	166.5	0.365					704.9
2013	20-May-13	8	911.1	306.6	0.455					688.3
2013	20-May-13	9	927.2	304.2	0.328					661.3
2013	20-May-13	10	944.4	425.6	0.541					677.1
2013	20-May-13	11	1175.2	496.5	0.784					755
2013	20-May-13	12	815.8	612.6	0.775					744.5
2013	20-May-13	13	1178.7	788.5	0.703					741.7
2013	20-May-13	14	1485	1165.3	0.85					771.7
2013	20-May-13	15	739.3	1341.4	0.854					814.8
2013	20-May-13	16	1019.8	857.2	0.883					819.1
2013	20-May-13	17	858.9	468.1	0.889					834.5
2013	20-May-13	18	1073.2	388.8	0.898	0				826.1
2013	20-May-13	19	1059.1	407.7	0.838	0				797.4
2013	20-May-13	20	1157.3	296.4	0.883	2.1				808.7
2013	20-May-13	21	469.8	197.2	0.688	0				671.2
2013	20-May-13	22	605.7	106.4	0.407	0				491.9
2013	20-May-13	23	495.8	167.8	0.079	0				424.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	21-May-13	0	417.5	112.6	0.036	0				417.3
2013	21-May-13	1	361.7	110.2	0.035	0				435.6
2013	21-May-13	2	204	66.6	0.035	0				418.9
2013	21-May-13	3	138.6	73.7	0.048	0				444.3
2013	21-May-13	4	128.6	49.6	0.051	0				422.1
2013	21-May-13	5	160.4	70.6	0.051	0				421.1
2013	21-May-13	6	194.9	72.5	0.059	0				490.5
2013	21-May-13	7	221.8	117.7	0.096	6.2			0	630.5
2013	21-May-13	8	182	117.9	0.239	0			0	572.2
2013	21-May-13	9	300	181.4	0.341	47.1			0	660.4
2013	21-May-13	10	360.8	274.9	0.611	229.8			9.8	854.8
2013	21-May-13	11	411.1	410	0.538	476.8			29.8	815.2
2013	21-May-13	12	787.2	651.9	0.74	850.4			44.9	899.7
2013	21-May-13	13	1103.8	785.9	0.833	1100.08			48.7	935.2
2013	21-May-13	14	826.5	832.7	0.838				54.4	910.2
2013	21-May-13	15	1043.5	828.2	0.837				54.2	884
2013	21-May-13	16	1202.5	850.8	0.837				44	892.4
2013	21-May-13	17	1293.1	1004.7	0.833				43.5	870.2
2013	21-May-13	18	1310.2	1037.9	0.675		0		62.4	785.6
2013	21-May-13	19	1361.7	1101.9	0.675		294.2		62.3	807.8
2013	21-May-13	20	1316	1163.5	0.774		344.6		64.7	860.5
2013	21-May-13	21	1273.3	1176.9	0.459		403.6		65.4	800.1
2013	21-May-13	22	1015.8	1069.6	0.056		314.7		64.9	628.1
2013	21-May-13	23	525.2	578.1	0.036		311.8		138.8	457.9
2013	22-May-13	0	498.8	305.2	0.035		315.6		287.5	441.8
2013	22-May-13	1	442	214.1	0.054		419.3		356.4	449.7
2013	22-May-13	2	296.8	118.3	0.085		788.5		488.1	444.9
2013	22-May-13	3	266.8	105.1	0.075		1536.2		477.8	449.9
2013	22-May-13	4	335.8	75.2	0.066		2009.2		480.7	547.3
2013	22-May-13	5	425.4	98.7	0.055		2009.4		517.5	594.4
2013	22-May-13	6	430.7	80.3	0.073		2038.9		503.8	574.7
2013	22-May-13	7	516.2	61.1	0.253		2083.1		585.5	692.7
2013	22-May-13	8	711.6	146.1	0.311		2161.8		615.3	806.2
2013	22-May-13	9	1428.2	264.1	0.571		2179.3		679.7	950
2013	22-May-13	10	1031.5	551.5	0.783		2205.9		743.7	901.3
2013	22-May-13	11	1232.9	945.5	0.811		2561.5		770.2	862.9
2013	22-May-13	12	1262	1316.2	0.759		3048.9		720.4	843.6
2013	22-May-13	13	1394.2	1376.7	0.819		3372.9		724.3	838.2
2013	22-May-13	14	1391.9	1440.6	0.815		3630.8		734.5	821.9
2013	22-May-13	15	1421.8	1453.7	0.816		3744.9		733	837.2
2013	22-May-13	16	1292.4	1568.8	0.817		3752		720.7	831.6
2013	22-May-13	17	1374.8	1608	0.815		3720.9		718.9	801.5
2013	22-May-13	18	1446	1717.1	0.818		3688.1		720.1	794.5
2013	22-May-13	19	1503.4	929.4	0.818		3687.9		727.4	829.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	22-May-13	20	1413.3	664.9	0.803		3723.4		723.7	806.9
2013	22-May-13	21	1467.4	536.1	0.384		3467.4		605.2	632.8
2013	22-May-13	22	981.2	474.7	0.037		2926		488.7	695.2
2013	22-May-13	23	487.8	285.5	0.037		2418.7		493.7	346.845
2013	23-May-13	0	501.8	185	0.021		2242.4		475.5	
2013	23-May-13	1	529.9	139			2130		464.6	
2013	23-May-13	2	324.5	107.5			2132.5		459.1	
2013	23-May-13	3	237.2	112.9			2133.5		458.5	
2013	23-May-13	4	262.1	96.2	0.014		2216.4		460.7	
2013	23-May-13	5	310.5	106	0.037		2459.9		470.5	
2013	23-May-13	6	476.1	149.3	0.044		3203.5		565.4	
2013	23-May-13	7	534.7	152.3	0.051		3590.3		674.9	
2013	23-May-13	8	872.3	334	0.053		3584.2		641.7	
2013	23-May-13	9	1135.2	349.2	0.224		3498.4		580.9	
2013	23-May-13	10	910.5	893.1	0.336		3562.8		563.6	
2013	23-May-13	11	1038.7	1169.5	0.631		3557.4		593.6	
2013	23-May-13	12	1255	1466.8	0.797		3576.5		720.6	
2013	23-May-13	13	1354.1	1486.9	0.75		3558.5		630.3	
2013	23-May-13	14	1385	1610.4	0.797		3541.9		572.7	
2013	23-May-13	15	1356.9	1599.9	0.723		3526.2		587.3	
2013	23-May-13	16	1161.3	1577.6	0.671		3480.1		549.2	
2013	23-May-13	17	982.3	1409.3	0.446		3420.4		473.1	
2013	23-May-13	18	940	1364.1			3412.8		471.8	
2013	23-May-13	19	816.6	1229.6			3429.9		504.1	
2013	23-May-13	20	858.1	878.3			3372.9		511.7	
2013	23-May-13	21	788.9	269.6			2957.2		442.9	
2013	23-May-13	22	498	279.4			2417.8		322.076	
2013	23-May-13	23	358.8	197			2079.6			
2013	24-May-13	0	226.811	190.3			2133.3		0	
2013	24-May-13	1		171.3			2066.2		15	
2013	24-May-13	2		153.9			2064.2		0.672	
2013	24-May-13	3		156.9			2057.7			
2013	24-May-13	4		145.4			2067.6			
2013	24-May-13	5		144.9			2068.8			
2013	24-May-13	6		181.6			2126			
2013	24-May-13	7		225			2615.3			
2013	24-May-13	8		676.7			3221.6			
2013	24-May-13	9		1126.1			3466.9			
2013	24-May-13	10		1305			3477.7			
2013	24-May-13	11		1341.4			3484.8			
2013	24-May-13	12		1123.8			3369.1			
2013	24-May-13	13		717			2908			
2013	24-May-13	14		432.9			2456.1			
2013	24-May-13	15		232			2123.8			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	24-May-13	16		323			2038.7			
2013	24-May-13	17		316.1			2034.2			
2013	24-May-13	18		289.4	0.045		2045.7			
2013	24-May-13	19		252.1	0.046		2116.2			
2013	24-May-13	20		213.3	0.06		2053.7			
2013	24-May-13	21		215.7	0.097		2039.2			
2013	24-May-13	22		173.9	0.086		2051.1			
2013	24-May-13	23		133.4	0.067		1578.4			
2013	25-May-13	0		115.8	0.058		53.755			
2013	25-May-13	1		131.6	0.054					
2013	25-May-13	2		112.6	0.063					
2013	25-May-13	3		112.9	0.054					
2013	25-May-13	4		96.7	0.054					
2013	25-May-13	5		107	0.034					
2013	25-May-13	6		100.2						
2013	25-May-13	7		78.7						
2013	25-May-13	8		84.4						
2013	25-May-13	9		70.7						
2013	25-May-13	10		72						
2013	25-May-13	11		75.8						
2013	25-May-13	12		80.3						
2013	25-May-13	13		87.3						
2013	25-May-13	14		86.9						
2013	25-May-13	15		92.9						
2013	25-May-13	16		104.6						
2013	25-May-13	17		88.7						
2013	25-May-13	18		81						
2013	25-May-13	19		78.4						
2013	25-May-13	20		80.7						
2013	25-May-13	21		419.4						
2013	25-May-13	22		626.1						
2013	25-May-13	23		622.9						
2013	26-May-13	0		619.7						
2013	26-May-13	1		613.3						
2013	26-May-13	2		636.7						
2013	26-May-13	3		638.1						
2013	26-May-13	4		668						
2013	26-May-13	5		674.2						
2013	26-May-13	6		543.5						
2013	26-May-13	7		188.9						
2013	26-May-13	8		108.9						
2013	26-May-13	9		101.9						
2013	26-May-13	10		90.7						
2013	26-May-13	11		88.9						

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	26-May-13	12		101						
2013	26-May-13	13		99.1						
2013	26-May-13	14		111.1						
2013	26-May-13	15		103.2						
2013	26-May-13	16		103.5						
2013	26-May-13	17		184						
2013	26-May-13	18		563.4						
2013	26-May-13	19		610.6						
2013	26-May-13	20		649.1						
2013	26-May-13	21		656.4						
2013	26-May-13	22		372.2						
2013	26-May-13	23		219.3						
2013	27-May-13	0		191.4						
2013	27-May-13	1		183.8						
2013	27-May-13	2		171.7						
2013	27-May-13	3		173.8						
2013	27-May-13	4		173.4						
2013	27-May-13	5		172.6						
2013	27-May-13	6		186.5						
2013	27-May-13	7		148.1						
2013	27-May-13	8		136.6						
2013	27-May-13	9		147.6						
2013	27-May-13	10		148.1						
2013	27-May-13	11		138.7						
2013	27-May-13	12		181.3						
2013	27-May-13	13		121.4						
2013	27-May-13	14		89.7						
2013	27-May-13	15		101.5						
2013	27-May-13	16		116.9						
2013	27-May-13	17		119.4						
2013	27-May-13	18		130.6						
2013	27-May-13	19		132.1						
2013	27-May-13	20		167.6						
2013	27-May-13	21		157						
2013	27-May-13	22		186.7						
2013	27-May-13	23		188.4						
2013	28-May-13	0		184	0.063					
2013	28-May-13	1		178.9	0.082					
2013	28-May-13	2		173.7	0.091					
2013	28-May-13	3		186.6	0.056					
2013	28-May-13	4		188	0.054					
2013	28-May-13	5		203	0.054					
2013	28-May-13	6		218	0.054					
2013	28-May-13	7		181.8	0.055					

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	28-May-13	8		149.5	0.066					
2013	28-May-13	9		131.3	0.159					
2013	28-May-13	10	0	160.2	0.031					
2013	28-May-13	11	0	224.3					0	
2013	28-May-13	12	0	461					0	
2013	28-May-13	13	0	579.7					0	1.5
2013	28-May-13	14	1.7	1036.6					5.2	3.3
2013	28-May-13	15	0	1200.1					25.4	1.3
2013	28-May-13	16	0	935.7					35.9	2.2
2013	28-May-13	17	0	815.9					37.5	9
2013	28-May-13	18	0	1073.3					48.1	28.9
2013	28-May-13	19	0	986					49.7	2.4
2013	28-May-13	20	0	958.4					50.3	15.1
2013	28-May-13	21	0	883		0			49.5	6.7
2013	28-May-13	22	0	978.5		0			48.8	2
2013	28-May-13	23	0	723.5		3.9			38.7	16
2013	29-May-13	0	0	533.1		0			41.7	64.9
2013	29-May-13	1	0	279		0			50.8	164
2013	29-May-13	2	0	367.8		0	0		52.9	389.2
2013	29-May-13	3	0	520.8		0	0		91.4	551.7
2013	29-May-13	4	0	724.8		0	0		82.5	559.4
2013	29-May-13	5	0	598.1		0	289.9		93.9	544.2
2013	29-May-13	6	1.5	787.6		0	373.5		155.1	477.6
2013	29-May-13	7	15	503.2		10.2	415.8		261.5	419
2013	29-May-13	8	15.1	842.8		0.9	576.8		333.7	423.4
2013	29-May-13	9	12.5	936.7		0	1565.8		354.1	434.3
2013	29-May-13	10	11.5	938.5		0	2051.3		476.7	432.8
2013	29-May-13	11	12.7	889.8		0	2510.6		445	435.4
2013	29-May-13	12	20.9	1013.2		0	2907.3		493.7	549.9
2013	29-May-13	13	42.3	1141.4		0	3229		547.6	613.6
2013	29-May-13	14	146.6	1059.4		0	3352.9		572.6	612.7
2013	29-May-13	15	416.3	1116.1		0	3417.7		674.2	766
2013	29-May-13	16	702.4	1005		0	3435.2		676.6	767.3
2013	29-May-13	17	968.3	941.7		0	3463.6		697.3	768.7
2013	29-May-13	18	1054.3	998.5		0	3482.8		699.3	753.5
2013	29-May-13	19	849.3	976.9		0	3538.3		659.3	697.6
2013	29-May-13	20	1076.5	870.2		0	3509.1		638.5	705
2013	29-May-13	21	978.7	656.4		0	3286.1		512.7	593.6
2013	29-May-13	22	703.9	393.9		0	2974.5		384.4	474.1
2013	29-May-13	23	497.9	186.1		0	2526.2		414	390.7
2013	30-May-13	0	294	211.9		0	2146.3		441.2	394.9
2013	30-May-13	1	237	148.7		0	2043.5		431.9	393.2
2013	30-May-13	2	231.8	180.7		0	2035.2		498	396.6
2013	30-May-13	3	223.8	148		0	2027.9		505.8	394

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	30-May-13	4	158.9	132.6		0	2016.9		484.2	394.1
2013	30-May-13	5	127.4	131		0	2022.6		452.4	390.9
2013	30-May-13	6	173.3	147.3		0	2134.3		467.9	415.2
2013	30-May-13	7	113.2	133.2		8.3	2650		470.4	387.5
2013	30-May-13	8	38.8	129		0	2901.3		485.8	490.7
2013	30-May-13	9	124	300.6	0.054	0	3371.7		595.1	682
2013	30-May-13	10	748.3	630.4	0.054	20.6	3455		741.7	749.7
2013	30-May-13	11	1015.6	806.5	0.061	316.4	3457.7		711.5	739.9
2013	30-May-13	12	1105.1	1010.1	0.084	628.7	3451.9		700.2	733.8
2013	30-May-13	13	1080.1	1025.7	0.084	967.6	3451.2		664.4	729.8
2013	30-May-13	14	1050	1030.6	0.084	1373.5	3446.2		670.2	730.1
2013	30-May-13	15	910.1	947.3	0.084	1673.2	3451		653.9	740.5
2013	30-May-13	16	794.9	979.4	0.208	1755.8	3446.5		642.6	728.7
2013	30-May-13	17	900.4	1002.4	0.221	1883.5	3456		644	736.4
2013	30-May-13	18	946.6	998.7	0.318	1949.9	3480.9		659.2	727.2
2013	30-May-13	19	963.8	935	0.36	2114.6	3509.6		643.8	727.3
2013	30-May-13	20	883.4	813	0.465	1898	3535.8		629.5	721.9
2013	30-May-13	21	1010.5	888.1	0.339	1720.7	3502.1		556.9	678.6
2013	30-May-13	22	787.8	927.8	0.259	1487.5	3432.2		527.1	616.3
2013	30-May-13	23	487	803	0.209	1074.5	3105.3		426.7	482.8
2013	31-May-13	0	309.1	658.5	0.208	800.2	2704.3		395.6	375.1
2013	31-May-13	1	272.5	626.1	0.222	648.6	2382.7		395.7	384.1
2013	31-May-13	2	161.6	460.9	0.222	646.5	2115.8		395.5	377.6
2013	31-May-13	3	120.5	352.2	0.222	655.5	2114.2		392.2	377.9
2013	31-May-13	4	110.7	394.9	0.222	660.4	2151.1		397.5	382.1
2013	31-May-13	5	131.3	336.8	0.222	659.6	2325.7		401.8	383.6
2013	31-May-13	6	180.9	453	0.222	665.8	2658		469.9	476.6
2013	31-May-13	7	178.7	519.3	0.222	700	3031.9		502.3	495
2013	31-May-13	8	197.4	527.9	0.316	697.5	3314.1		577.9	593.8
2013	31-May-13	9	550.8	726.8	0.385	695.2	3393.6		569.5	607.4
2013	31-May-13	10	758.5	877.9	0.524	697.3	3500.6		614	707.5
2013	31-May-13	11	967	1000	0.699	936.8	3536.3		705.3	773.2
2013	31-May-13	12	1079	1166.3	0.809	1870.7	3579.2		713.7	812.1
2013	31-May-13	13	925.1	1195.5	0.808	2257.8	3555.3		690.3	790.4
2013	31-May-13	14	814.4	1185.4	0.811	2232.8	3587.5		680.7	817.1
2013	31-May-13	15	807.4	1175.1	0.807	2248.9	3604.7		676.1	785.3
2013	31-May-13	16	1111.9	1160.2	0.813	2258.5	3580.3		691.7	769
2013	31-May-13	17	900	1210	0.815	2270.7	3566.1		691.3	750.1
2013	31-May-13	18	898.3	1253.7	0.811	2262.1	3545.9		711.1	743
2013	31-May-13	19	850.7	1131.3	0.813	2222.2	3534.3		679.1	743.6
2013	31-May-13	20	833.6	1112.7	0.585	2061.6	3447.9		615.4	683.3
2013	31-May-13	21	858.4	1006.9	0.269	1826.3	3225.1		511.2	517.3
2013	31-May-13	22	465.2	575.1	0.117	1744.2	2895.3		474.2	399.3
2013	31-May-13	23	342.8	351.2		1699.8	2502.4		448.7	396.4



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	1-Jun-13	0	383.8	316.7		1694.2	2310.9		447.2	383.6
2013	1-Jun-13	1	490.7	192		1668.1	2093.9		446.8	383.2
2013	1-Jun-13	2	287.2	237.4		1800.7	2042.4		483.9	385.1
2013	1-Jun-13	3	234.6	215.7	0.01	1812.5	2027.9		477.9	381.1
2013	1-Jun-13	4	269.2	205.4	0.061	1771.2	2039.9		482.2	389.9
2013	1-Jun-13	5	286.5	198.5	0.058	1756.7	2031.9		450.4	397.5
2013	1-Jun-13	6	230.2	152.7	0.067	1750.5	2100.3		449	390.6
2013	1-Jun-13	7	171.8	164.9	0.136	1766	2206.7		448.2	402.6
2013	1-Jun-13	8	184.9	114.3	0.227	1783.2	2541.6		462.5	433.3
2013	1-Jun-13	9	622	171.2	0.314	1805	3064.2		554.9	617.3
2013	1-Jun-13	10	807.6	290	0.574	1772.6	3318		611.7	746.7
2013	1-Jun-13	11	981.7	322.3	0.808	1794.7	3294		609.7	639.1
2013	1-Jun-13	12	1014.7	834.6	0.799	1743.1	3402.4		695.5	762.2
2013	1-Jun-13	13	1107.2	1074.7	0.8	1751.4	3402.8		714.9	793.2
2013	1-Jun-13	14	1592.8	1295.7	0.806	1751.4	3404.4		714.1	787.1
2013	1-Jun-13	15	1587.9	1267.4	0.8	1749.4	3398.1		707.3	802.8
2013	1-Jun-13	16	1459.3	1352.2	0.789	1784.8	3414.4		722.4	781.4
2013	1-Jun-13	17	1603.4	1313.4	0.765	1783.8	3418.7		727	780.2
2013	1-Jun-13	18	1576.6	1304.2	0.757	1751.5	3431.5		737.9	776.3
2013	1-Jun-13	19	1595.2	1236.7	0.747	1707.6	3469		747.3	776.1
2013	1-Jun-13	20	1311.5	1180.1	0.66	1724.1	3441		708.8	750.8
2013	1-Jun-13	21	870.9	992.6	0.11	1743.9	3212.1		565.7	625.1
2013	1-Jun-13	22	448.4	787.6		1767.7	2892.3		478	495.7
2013	1-Jun-13	23	277	676.5		1805.3	2536.7		494.1	408.4
2013	2-Jun-13	0	354.2	459.1		1816.1	2231.6		461.7	414.6
2013	2-Jun-13	1	607.8	265		1795	2053.1		454.2	417.8
2013	2-Jun-13	2	580	276.6		1785	2043.7		451.6	419.1
2013	2-Jun-13	3	537.7	263.1		1788.3	2048.1		461.3	421.1
2013	2-Jun-13	4	570.7	404.5		1759	2038.7		453.6	413.7
2013	2-Jun-13	5	628.5	436.8		1728.5	2036.9		484.7	411.9
2013	2-Jun-13	6	565.9	555.8	0.032	1694.5	2020.5		444.2	415.6
2013	2-Jun-13	7	422.7	444.2	0.06	1701.3	1983.5		449.7	428.5
2013	2-Jun-13	8	413.6	341.2	0.078	1713.3	2103.1		516.4	568
2013	2-Jun-13	9	1237.8	740	0.225	1699.9	2489.7		695.8	795.9
2013	2-Jun-13	10	1123.4	1316.5	0.456	1683.7	3030.4		766.7	897.6
2013	2-Jun-13	11	1339.7	1006.7	0.832	1695.8	3384.8		942.8	917.2
2013	2-Jun-13	12	1537.3	1165.5	0.838	1680.4	3472.2		950.1	1036.8
2013	2-Jun-13	13	1684.3	1210.6	0.839	1677.6	3487		960.5	1091.8
2013	2-Jun-13	14	1577.3	1182.7	0.832	1665.1	3478.6		850.2	1022.8
2013	2-Jun-13	15	1554.8	1194.3	0.823	1660.7	3492		882.7	955.9
2013	2-Jun-13	16	1400	1162.7	0.822	1664.1	3507.9		1011.3	954.8
2013	2-Jun-13	17	1414.8	1133.4	0.822	1669	3467.2		1012.7	1057
2013	2-Jun-13	18	1254.4	982.3	0.403	1645.9	3507.6		885	1015
2013	2-Jun-13	19	1015.4	981.4		1639	3523.2		912.9	1003.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	2-Jun-13	20	921.6	829.5		1629.6	3492.3		858.8	937.1
2013	2-Jun-13	21	851.1	447		1656.4	3228.5		635.5	919.9
2013	2-Jun-13	22	686.4	575		1624.5	3227.3		596.3	714.5
2013	2-Jun-13	23	519.5	506.4		1619.4	3242.1		576.9	662.3
2013	3-Jun-13	0	368.9	349.4		1640	2950.7		265.71	602
2013	3-Jun-13	1	783.2	281.3		1657.6	2711			457.6
2013	3-Jun-13	2	526	451.7		1632	2448.7			95.15
2013	3-Jun-13	3	486.5	314.7		1628.3	2127			
2013	3-Jun-13	4	544.4	455.7		1641.9	2066.4			
2013	3-Jun-13	5	599.4	351.4	0.08	1505.8	2040.7			
2013	3-Jun-13	6	501.1	448	0.085	785.92	2117.9			
2013	3-Jun-13	7	419.7	323.6	0.081	169.83	2215.3			
2013	3-Jun-13	8	409.9	354.6	0.12	578	2529.8			
2013	3-Jun-13	9	560.2	575.5	0.237	547.8	3023.8			
2013	3-Jun-13	10	1035.4	1011.3	0.39	550.8	3367.8			
2013	3-Jun-13	11	1193.4	920.6	0.617	599.5	3463.1			
2013	3-Jun-13	12	774.7	802.7	0.774	904	3480.4			
2013	3-Jun-13	13	1380.7	674.3	0.747	1533.9	3480.7			
2013	3-Jun-13	14	1343.1	828.5	0.641	1590	3480.2			
2013	3-Jun-13	15	1266.8	961	0.506	1567.3	3437.2			
2013	3-Jun-13	16	957.5	933.6	0.494	1049.7	3450.8			
2013	3-Jun-13	17	1225.5	975.3	0.637	767	3521.3			
2013	3-Jun-13	18	1259.8	910	0.165	773	3592.7			
2013	3-Jun-13	19	960.3	891		773.2	3467.2			
2013	3-Jun-13	20	747.3	740.4		769.2	3371.3			
2013	3-Jun-13	21	759.1	689		766.3	3130.5			
2013	3-Jun-13	22	591.4	424.7		764	2790			
2013	3-Jun-13	23	363.9	252.7		764.1	2478			
2013	4-Jun-13	0	210.2	221.7		764.1	2146.4			
2013	4-Jun-13	1	206.1	180		768.5	2145.3			
2013	4-Jun-13	2	84.798	323.7		765.6	2145.5			
2013	4-Jun-13	3		306.5		773	2143.4			
2013	4-Jun-13	4		352.2		774.8	2160.7			
2013	4-Jun-13	5		161.5		1913.2	2160.3			
2013	4-Jun-13	6		192.3	0.061	2314.9	2143.1			
2013	4-Jun-13	7		162.9	0.067	72.111	2116.6			
2013	4-Jun-13	8		442.5	0.067		2322.5			
2013	4-Jun-13	9		558.2	0.168		2598.7			
2013	4-Jun-13	10		271	0.234		2717.2			
2013	4-Jun-13	11		169.2	0.247		2800.5			
2013	4-Jun-13	12		371.4	0.38		3188.1			
2013	4-Jun-13	13		854.4	0.502		3418.2			
2013	4-Jun-13	14		876.5	0.385		3345.3			
2013	4-Jun-13	15		766.1	0.609		3645.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	4-Jun-13	16		870.4	0.675		3652.8			
2013	4-Jun-13	17		1155.9	0.63		3582.3			
2013	4-Jun-13	18		795.6	0.475		3252.7			
2013	4-Jun-13	19		390.7	0.113		2987.2			
2013	4-Jun-13	20		424.1			3209.2			
2013	4-Jun-13	21		196.5			2859.8			
2013	4-Jun-13	22		258.6			2398.4			
2013	4-Jun-13	23		216.4			2206.3			
2013	5-Jun-13	0		180.8			2194.4			
2013	5-Jun-13	1		192.8			2184.2			
2013	5-Jun-13	2		156.6			2182.7			
2013	5-Jun-13	3		187.3			2230			
2013	5-Jun-13	4		147.1			2601.6			
2013	5-Jun-13	5		190.8			2889.5			
2013	5-Jun-13	6		145.8			2882.2			
2013	5-Jun-13	7		156.1	0.077		2879.9			
2013	5-Jun-13	8		101.7	0.085		3142			
2013	5-Jun-13	9		115.3	0.174		3550.7			
2013	5-Jun-13	10		113.7	0.272		3570.8			
2013	5-Jun-13	11		156.7	0.265		3602.1			
2013	5-Jun-13	12		144.8	0.318		3716.8			
2013	5-Jun-13	13		215.1	0.368		3711.4			
2013	5-Jun-13	14		252.3	0.466		3720.4			
2013	5-Jun-13	15		344.1	0.51		3713.7			
2013	5-Jun-13	16		417.2	0.558		3712.6			
2013	5-Jun-13	17		455.1	0.513		3730.7			
2013	5-Jun-13	18		378.9	0.267		3776.8			
2013	5-Jun-13	19		328	0.066		3749.9			
2013	5-Jun-13	20		376.7			3757.8			
2013	5-Jun-13	21		288.3			3389			
2013	5-Jun-13	22		272.8			2985.9			
2013	5-Jun-13	23		235.2			2566.7			
2013	6-Jun-13	0		176			2247.6			
2013	6-Jun-13	1		178.4			2226.2			
2013	6-Jun-13	2		135.9			2223.2			
2013	6-Jun-13	3		156.4			2195.7			
2013	6-Jun-13	4		124.1			2134.5			
2013	6-Jun-13	5		141			2214.8			
2013	6-Jun-13	6		112.6			2260.5			
2013	6-Jun-13	7		89.4			2527.5			
2013	6-Jun-13	8		120.5			3052.2			
2013	6-Jun-13	9		134.7			3113.9			
2013	6-Jun-13	10		331.9			3324.4			
2013	6-Jun-13	11		888.8			3150.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	6-Jun-13	12		1040.5			3224.8			
2013	6-Jun-13	13		709.3			2903.3			
2013	6-Jun-13	14		724.6			2543			
2013	6-Jun-13	15		841.7			2622.3			
2013	6-Jun-13	16		708.5			2527.4			
2013	6-Jun-13	17		645.9			2514.2			
2013	6-Jun-13	18		687.3			2396.4			
2013	6-Jun-13	19		558.5			2391.4			
2013	6-Jun-13	20		489.2			2276			
2013	6-Jun-13	21		519			2074.9			
2013	6-Jun-13	22		290			2003.8			
2013	6-Jun-13	23		165.4			2021.7			
2013	7-Jun-13	0		218.3			2033.3			
2013	7-Jun-13	1		151			2076.8			
2013	7-Jun-13	2		226.4			2108.8			
2013	7-Jun-13	3		178.2			2100.1			
2013	7-Jun-13	4		250.5			2169.1			
2013	7-Jun-13	5		189.6			2326.5			
2013	7-Jun-13	6		236.1			2322.2			
2013	7-Jun-13	7		135.4			2732			
2013	7-Jun-13	8		240			3022.8			
2013	7-Jun-13	9		262.7			3224.3	0.005		
2013	7-Jun-13	10		268.3			3258.8	0.051		
2013	7-Jun-13	11		297.8			3160.2	0.047		
2013	7-Jun-13	12		281.6			3238.4	0.059		
2013	7-Jun-13	13		197.5			2955.2	0.083		
2013	7-Jun-13	14		272.2			2702.7	0.043		
2013	7-Jun-13	15		221.3			2606.3			
2013	7-Jun-13	16		298.3			2662.2			
2013	7-Jun-13	17		248.3			2540.7			
2013	7-Jun-13	18		209.9			2352.9			
2013	7-Jun-13	19		156.5			2320.9			
2013	7-Jun-13	20		202.5			2342.3			
2013	7-Jun-13	21		225.2			2168.7			
2013	7-Jun-13	22		197.3			2096.9			
2013	7-Jun-13	23		204.8			2075.8			
2013	8-Jun-13	0		186.2			2150.4			
2013	8-Jun-13	1		222.3			2049.5			
2013	8-Jun-13	2		204.4			2045.1			
2013	8-Jun-13	3		216.1			2032.8			
2013	8-Jun-13	4		199.1			2037.1			
2013	8-Jun-13	5		214.7			2036.9			
2013	8-Jun-13	6		182			2044.1			
2013	8-Jun-13	7		143.2			2015.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	8-Jun-13	8		173.3			2351.2			
2013	8-Jun-13	9		166.7			2483.3			
2013	8-Jun-13	10		213.6			2708.2			
2013	8-Jun-13	11		218.3			2807			
2013	8-Jun-13	12		278.1			2857.1			
2013	8-Jun-13	13		248			2918.7			
2013	8-Jun-13	14		317.4			2940.6			
2013	8-Jun-13	15		405.3			3127.6			
2013	8-Jun-13	16		358			3238.7			
2013	8-Jun-13	17		369.5			3281.7			
2013	8-Jun-13	18		254.4			3112.4			
2013	8-Jun-13	19		140.8			2885.1			
2013	8-Jun-13	20		62.3			3090.4			
2013	8-Jun-13	21		138			2804.8			
2013	8-Jun-13	22		137.1			2420.8			
2013	8-Jun-13	23		152.4			2102.5			
2013	9-Jun-13	0		159.6			1962.7			
2013	9-Jun-13	1		153.3			1934.6			
2013	9-Jun-13	2		148.7			1932.1			
2013	9-Jun-13	3		159.7			1931.1			
2013	9-Jun-13	4		147.7			1921.6			
2013	9-Jun-13	5		153.8			1928.9			
2013	9-Jun-13	6		126.3			1923			
2013	9-Jun-13	7		102.1			1921.4			
2013	9-Jun-13	8		94.3			2069.1			
2013	9-Jun-13	9		101.3			2162			
2013	9-Jun-13	10		95.9			2530.4			
2013	9-Jun-13	11		95.5			2897			
2013	9-Jun-13	12		115.7			3046			
2013	9-Jun-13	13		115.4			2996.8			
2013	9-Jun-13	14		135.7			3091.5			
2013	9-Jun-13	15		126.1			3016			
2013	9-Jun-13	16		141			3046.9			
2013	9-Jun-13	17		136.3			3063.9			
2013	9-Jun-13	18		132.7			2983.1			
2013	9-Jun-13	19		144.6			3015.6			
2013	9-Jun-13	20		165.2			3133.3			
2013	9-Jun-13	21		140.4			2901			
2013	9-Jun-13	22		127.8			2682			
2013	9-Jun-13	23		151.9			2293.6			
2013	10-Jun-13	0		141.1			1991.1			
2013	10-Jun-13	1		145.2			1878.4			
2013	10-Jun-13	2		137.1			1874.6			
2013	10-Jun-13	3		146.6			1879.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	10-Jun-13	4		118.8			1880.9			
2013	10-Jun-13	5		132.4			1867			
2013	10-Jun-13	6		123.8			1873			
2013	10-Jun-13	7		92.6			1900.6			
2013	10-Jun-13	8		89.2			2049.6			
2013	10-Jun-13	9		78			2318.1			
2013	10-Jun-13	10		107.2			2494.2			
2013	10-Jun-13	11		93.3			2461.9			
2013	10-Jun-13	12		236.2			2703.9			
2013	10-Jun-13	13		294.5			2576.2			
2013	10-Jun-13	14		177.4			2350.8			
2013	10-Jun-13	15	0	156.4			2245.3			
2013	10-Jun-13	16	0	258.5			2464.8			
2013	10-Jun-13	17	0	284			2565.6			
2013	10-Jun-13	18	0	305.1			2601.6			
2013	10-Jun-13	19	2.7	245.2			2308			
2013	10-Jun-13	20	0	187.5			2020.4			
2013	10-Jun-13	21	0	198.9			1923.3			
2013	10-Jun-13	22	0	178.2			1926.5			
2013	10-Jun-13	23	0	192.1			1926.4			
2013	11-Jun-13	0	0	162.9			1928.4			
2013	11-Jun-13	1	0	176.9			1926.7			
2013	11-Jun-13	2	0	161.2			1924.2			
2013	11-Jun-13	3	0	165.6			1920.4		0	
2013	11-Jun-13	4	0	154.3			1924.7		0	
2013	11-Jun-13	5	0	161.3			1928.4		1	
2013	11-Jun-13	6	0	155			1919.7		37.2	2.075
2013	11-Jun-13	7	5.8	124.4			1912.7		45.2	5.3
2013	11-Jun-13	8	2.3	102.7			2158.8		44.1	5.2
2013	11-Jun-13	9	0	95.3			2679.6		38.8	17.2
2013	11-Jun-13	10	0	106.3			3003.8		52.5	7.2
2013	11-Jun-13	11	0	125.6			3143.1		55.2	10.4
2013	11-Jun-13	12	0	170.2			3164.8		67.2	1.6
2013	11-Jun-13	13	0	173			3122.9		83.3	7
2013	11-Jun-13	14	0	426.9			3210.6		77.2	19.8
2013	11-Jun-13	15	0	681.4			3215.4		85.3	2.5
2013	11-Jun-13	16	0	1294.9			3224.7		96.8	7.4
2013	11-Jun-13	17	0	1347.3			3187.1		98.6	27
2013	11-Jun-13	18	1.4	1365.7			3225.4		122.2	67.8
2013	11-Jun-13	19	5.6	1395.3			3213.4		228.3	309.5
2013	11-Jun-13	20	17.6	1306.9			3164.5		373.7	503.9
2013	11-Jun-13	21	50.8	911.9			2943.5		446.2	511.6
2013	11-Jun-13	22	108.2	596.2			2573.1		552.1	480.2
2013	11-Jun-13	23	123.5	334.5			2171.2		536.6	478.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	12-Jun-13	0	174.4	412	0.042		1928.7		557.5	467.3
2013	12-Jun-13	1	295.2	357.2	0.069		1930.7		500.9	464.4
2013	12-Jun-13	2	291.8	360.4	0.069		1928.7		521.3	457.7
2013	12-Jun-13	3	285.7	236	0.069		1915.4		507.1	461.2
2013	12-Jun-13	4	418.9	292.9	0.081		1914.8		514.8	471.4
2013	12-Jun-13	5	632.5	284.6	0.073		1907.6		533.5	507
2013	12-Jun-13	6	563.7	235.4	0.068		1847.2		529.6	510.7
2013	12-Jun-13	7	399.3	223.5	0.085		1838.2		538.7	528.3
2013	12-Jun-13	8	362.5	214.3	0.092		2146.9		528.8	506.5
2013	12-Jun-13	9	634.9	210.7	0.243		2582.2		483.3	589.3
2013	12-Jun-13	10	633.8	183.8	0.231		2873.1		509.7	568.1
2013	12-Jun-13	11	687.1	185.8	0.267		3099.2		625	648.9
2013	12-Jun-13	12	746.7	309.3	0.331		3079.7		624.2	690
2013	12-Jun-13	13	925.3	203.8	0.462		3164.9		637.8	680.5
2013	12-Jun-13	14	486.5	121	0.521		3149.7		666	645.5
2013	12-Jun-13	15	667.9	166.9	0.562		3156.6		706.9	776.7
2013	12-Jun-13	16	959.5	342.3	0.633		3146.3		697.1	783.4
2013	12-Jun-13	17	1218.4	347.2	0.433		3106.7		663.1	737.5
2013	12-Jun-13	18	1115.9	408.9	0.038		3122.9		608.2	687.5
2013	12-Jun-13	19	1209.9	388.1			3180.7		698.6	732.7
2013	12-Jun-13	20	1403.4	399.2			3187.5		692.5	728.3
2013	12-Jun-13	21	1101.9	362.8			3032.6		599.8	651.2
2013	12-Jun-13	22	610.9	481			2892		516.1	523.5
2013	12-Jun-13	23	593.7	386.2			2681.8		468.4	416.3
2013	13-Jun-13	0	676	227.8			2310.7		481.1	421.9
2013	13-Jun-13	1	772.4	192.1			2014.8		491.5	437.2
2013	13-Jun-13	2	604.8	238.3	0.029		1929.3		487.8	418
2013	13-Jun-13	3	468.7	184.4	0.067		1924		488.3	409
2013	13-Jun-13	4	523.9	237.8	0.073		1921.5		535.3	421.5
2013	13-Jun-13	5	634.9	210.2	0.084		1924.7		536.9	442.3
2013	13-Jun-13	6	515.7	275.3	0.072		1963.1		497	438.3
2013	13-Jun-13	7	391.2	133.9	0.081		2176.4		486.3	411.1
2013	13-Jun-13	8	345.5	199.1	0.22		2217.8		467.8	414.4
2013	13-Jun-13	9	460.4	293.3	0.229		2142.8		468.3	426.7
2013	13-Jun-13	10	417.7	668.3	0.23		2581		453	418
2013	13-Jun-13	11	411.2	904.6	0.229		2490.1		499.4	436.1
2013	13-Jun-13	12	669.7	1110.9	0.23		2859		531.3	541
2013	13-Jun-13	13	1000.5	806.7	0.229		2975.4		511.2	523.8
2013	13-Jun-13	14	823.9	674	0.23		2931.6		474.8	415.1
2013	13-Jun-13	15	663	1206.5	0.23		2680.8		473.2	414.3
2013	13-Jun-13	16	638.9	1332.3	0.229		2316.4		491.4	417.5
2013	13-Jun-13	17	590.4	1430.7	0.097		2210		489.7	424.3
2013	13-Jun-13	18	301.8	1437.2	0.036		2078.4		497	421.7
2013	13-Jun-13	19	221.7	1404.9	0.05		1917.1		490.2	419

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	13-Jun-13	20	173.2	1190.5	0.05		1868.7		529.8	410.5
2013	13-Jun-13	21	182	567.3	0.05		1857.4		577.4	418.4
2013	13-Jun-13	22	157.9	431.5	0.058		1796.7		471	380.3
2013	13-Jun-13	23	129.5	183	0.065		1122.9		318.56	3.192
2013	14-Jun-13	0	126.5	295.2	0.064		70.49			
2013	14-Jun-13	1	154.5	225.3	0.05					
2013	14-Jun-13	2	145.1	198	0.051					
2013	14-Jun-13	3	123.5	165.1	0.065					
2013	14-Jun-13	4	130.6	135.8	0.065					
2013	14-Jun-13	5	171.6	122	0.065					
2013	14-Jun-13	6	147.9	143.5	0.046					
2013	14-Jun-13	7	97.3	109						
2013	14-Jun-13	8	52	67.9						
2013	14-Jun-13	9	45.9	65.3						
2013	14-Jun-13	10	45.3	87.5						
2013	14-Jun-13	11	49.5	108.4						
2013	14-Jun-13	12	91.4	123						
2013	14-Jun-13	13	38	95.3						
2013	14-Jun-13	14	44.8	70						
2013	14-Jun-13	15	43.7	95.3						
2013	14-Jun-13	16	63.2	120						
2013	14-Jun-13	17	101.2	165.6						
2013	14-Jun-13	18	84.2	203.5						
2013	14-Jun-13	19	69.7	218.5						
2013	14-Jun-13	20	83.9	274.6						
2013	14-Jun-13	21	130.1	244						
2013	14-Jun-13	22	101.5	224						
2013	14-Jun-13	23	286.1	441.9						
2013	15-Jun-13	0	339.8	337.7						
2013	15-Jun-13	1	462.8	262						
2013	15-Jun-13	2	405.2	117.7						
2013	15-Jun-13	3	384.4	125.7						
2013	15-Jun-13	4	408.9	75.7						
2013	15-Jun-13	5	479.8	99						
2013	15-Jun-13	6	435.9	63.9						
2013	15-Jun-13	7	423.3	77.3						
2013	15-Jun-13	8	324.4	50.8						
2013	15-Jun-13	9	374.3	51.1						
2013	15-Jun-13	10	389.5	51.2						
2013	15-Jun-13	11	368.1	73						
2013	15-Jun-13	12	464.4	79						
2013	15-Jun-13	13	386.3	95.9						
2013	15-Jun-13	14	259.5	101.7						
2013	15-Jun-13	15	226.9	114.7						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	15-Jun-13	16	199.4	131.3						
2013	15-Jun-13	17	237.8	150.1						
2013	15-Jun-13	18	129.9	140						
2013	15-Jun-13	19	52.9	92.5						
2013	15-Jun-13	20	83.5	81						
2013	15-Jun-13	21	113.1	111.1						
2013	15-Jun-13	22	98.7	172.4						
2013	15-Jun-13	23	94.3	169.3						
2013	16-Jun-13	0	308.4	127.3						
2013	16-Jun-13	1	422.8	119.5						
2013	16-Jun-13	2	401.1	72.3						
2013	16-Jun-13	3	386	81.8						
2013	16-Jun-13	4	400.1	56.6						
2013	16-Jun-13	5	449.4	72.9						
2013	16-Jun-13	6	422.1	50.9						
2013	16-Jun-13	7	376	54.4						
2013	16-Jun-13	8	266.5	44.5						
2013	16-Jun-13	9	444.2	43.3	0.009					
2013	16-Jun-13	10	342	39.2	0.064					
2013	16-Jun-13	11	417.2	59.5	0.064				0	
2013	16-Jun-13	12	257	89	0.064				0	
2013	16-Jun-13	13	311	61.6	0.069				20.2	
2013	16-Jun-13	14	429.3	53.6	0.064				25.4	
2013	16-Jun-13	15	390.6	69.2	0.073				25.2	
2013	16-Jun-13	16	377.8	72.5	0.051				27.4	
2013	16-Jun-13	17	486.9	74.9	0.061		0		29.9	
2013	16-Jun-13	18	492.3	81.2	0.07		63.1		69.8	
2013	16-Jun-13	19	456.1	95.1	0.052		358.6		71.2	
2013	16-Jun-13	20	345.6	127.7	0.051		336.9		72.8	
2013	16-Jun-13	21	350	128.1	0.051		335.3		81.2	
2013	16-Jun-13	22	256.4	129.7	0.051		428.8		72.3	
2013	16-Jun-13	23	187.1	88.9	0.061		424.4		67.6	
2013	17-Jun-13	0	165.4	93.8	0.066		432.6		65.2	
2013	17-Jun-13	1	196	112.8	0.06		911.8		60.7	
2013	17-Jun-13	2	178	112.2	0.047		1559.8		56	
2013	17-Jun-13	3	167.6	114.1	0.036		1882.5		71.5	
2013	17-Jun-13	4	166.6	98.9	0.038		1984.6		87.1	
2013	17-Jun-13	5	198.8	100.4	0.053		2124.6		79.5	
2013	17-Jun-13	6	173.8	82.4	0.055		2351.3		78.1	
2013	17-Jun-13	7	112.9	68.7	0.05		2440.9		75.2	
2013	17-Jun-13	8	77.1	67.9	0.063		2708.2		160.8	
2013	17-Jun-13	9	172.4	112.6	0.159		2926		291	
2013	17-Jun-13	10	275.6	175.5	0.239		3093.3		347.8	
2013	17-Jun-13	11	365.1	246.2	0.381		3106.1		393.6	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	17-Jun-13	12	465.5	505	0.766		3108.8		371.8	
2013	17-Jun-13	13	1137.7	563.1	0.796		3077.8		410.4	
2013	17-Jun-13	14	1055.8	620.3	0.722		3046		399.4	
2013	17-Jun-13	15	1230.7	638	0.737		3024		390.6	
2013	17-Jun-13	16	584	520.2	0.494		2983.8		397.4	
2013	17-Jun-13	17	656.3	469.1	0.366		2971.3		392.9	
2013	17-Jun-13	18	581.2	476.4	0.231		2960.9		412.4	
2013	17-Jun-13	19	649.5	413			2940.1		372.4	1.577
2013	17-Jun-13	20	900.1	494.3			2911.5		394.1	5.1
2013	17-Jun-13	21	1164.4	458.5			2872.5		411.1	4.4
2013	17-Jun-13	22	655.4	433.2			2670.5		384.1	30.2
2013	17-Jun-13	23	487.6	410.8			2394.6		189.9	46.6
2013	18-Jun-13	0	472.8	308.1			2126.6		30	50.9
2013	18-Jun-13	1	434.7	243.3			1852.4			50.1
2013	18-Jun-13	2	365.1	245.3			1716.2			45.6
2013	18-Jun-13	3	351.8	203.7	0.035		1701.3			43.7
2013	18-Jun-13	4	342.3	159.6	0.036		1702.5			7.8
2013	18-Jun-13	5	392.6	160.7	0.058		1704.3			24.3
2013	18-Jun-13	6	306.8	131.5	0.074		1678.7			194.9
2013	18-Jun-13	7	211.1	154.1	0.071		1794.5			297.7
2013	18-Jun-13	8	126.7	92.6	0.058		1895.7			416.2
2013	18-Jun-13	9	184.5	133.4	0.226		2229.9			282.8
2013	18-Jun-13	10	323.6	133.5	0.225		2531			2.3
2013	18-Jun-13	11	367.5	196.6	0.226		2652.3			1.4
2013	18-Jun-13	12	194.8	217.2	0.226		2512.2			7.6
2013	18-Jun-13	13	301	149.6	0.224		2455.7			122.7
2013	18-Jun-13	14	264.6	112.9	0.226		2447.7			441.5
2013	18-Jun-13	15	255.4	147.7	0.225		2390.8			446.8
2013	18-Jun-13	16	320.2	158.4	0.226		2305			443.7
2013	18-Jun-13	17	365.7	128.3	0.227		2137.5			442.6
2013	18-Jun-13	18	363.3	169.5	0.144		1881.4			443.6
2013	18-Jun-13	19	335.4	168.1			1732.7			442.6
2013	18-Jun-13	20	375.2	172.7			1731.4			437.2
2013	18-Jun-13	21	450.6	191.5			1728.6			428.1
2013	18-Jun-13	22	405.1	151.1			1706.9			428.7
2013	18-Jun-13	23	324.8	153.1			1727.4			426.3
2013	19-Jun-13	0	315.8	114.9			1689.7			430.6
2013	19-Jun-13	1	365.2	139.9			1676			425.6
2013	19-Jun-13	2	328	97.4			1674.4			425.1
2013	19-Jun-13	3	294.8	126.8			1666.2			425
2013	19-Jun-13	4	321.8	94			1724.8			428.6
2013	19-Jun-13	5	323.7	128			1693.5			434.5
2013	19-Jun-13	6	273.7	294			1763.9			430.1
2013	19-Jun-13	7	205.2	338.3			1859.7			425.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	19-Jun-13	8	161.8	266.9			2057.4			422.9
2013	19-Jun-13	9	210	299.4			2133.4			426.4
2013	19-Jun-13	10	254.8	301.5			2301.7			426.7
2013	19-Jun-13	11	197.6	360			2406.9			426.5
2013	19-Jun-13	12	207	372.6			2654.6			423.9
2013	19-Jun-13	13	308	300.5			2828.3			423.2
2013	19-Jun-13	14	301.5	348.7			2746.6			415
2013	19-Jun-13	15	328.6	347.8			2791			448.1
2013	19-Jun-13	16	401.7	282.5			2842.7			508.6
2013	19-Jun-13	17	549.2	317.1			2812.2			633.6
2013	19-Jun-13	18	372.4	310.2			2699.1			643.8
2013	19-Jun-13	19	433.1	266.7			2419.5			669.7
2013	19-Jun-13	20	309.4	291.1			2327.7			622.3
2013	19-Jun-13	21	349.7	250.3			2137.6			458.5
2013	19-Jun-13	22	310	298.9			1878.5			472.5
2013	19-Jun-13	23	428.3	246.4			1724.6			117.096
2013	20-Jun-13	0	336.3	280.7			1760.3			
2013	20-Jun-13	1	400.7	212.8			1774.7			
2013	20-Jun-13	2	374.1	212.7			1784.3			
2013	20-Jun-13	3	381	172.1			1811			
2013	20-Jun-13	4	506.4	165.2			1795.4			
2013	20-Jun-13	5	1139.3	157.1			1765.9			
2013	20-Jun-13	6	1188	129.3			1815.8			
2013	20-Jun-13	7	696.6	117.3			1992.8			
2013	20-Jun-13	8	502.9	40.5			2286.6			
2013	20-Jun-13	9	774.4	32.7			2653.8			
2013	20-Jun-13	10	934.7	20.7			2759.7			
2013	20-Jun-13	11	1047.5	26.9			2824.3			
2013	20-Jun-13	12	365.9	41.2			2949.8			
2013	20-Jun-13	13	512.2	31.1			3003.8			
2013	20-Jun-13	14	339.7	52.9			2978			
2013	20-Jun-13	15	478.6	38.3			2951.2			
2013	20-Jun-13	16	643.2	48.9			2934			
2013	20-Jun-13	17	1027.5	127			2916.5			
2013	20-Jun-13	18	965.1	327.2			2937.3			
2013	20-Jun-13	19	807.2	308.1			2869.4			
2013	20-Jun-13	20	515.1	327.6			2849.2			
2013	20-Jun-13	21	427.5	128.5			2697.7			
2013	20-Jun-13	22	329.7	152.3			2438			
2013	20-Jun-13	23	272.9	148.3			2217.4			
2013	21-Jun-13	0	230.5	140.6			1885.7			
2013	21-Jun-13	1	195.7	149.9			1759.5			
2013	21-Jun-13	2	124	129.8			1747.9			
2013	21-Jun-13	3	119.5	124.2			1748.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	21-Jun-13	4	263.4	89.7			1730.2			
2013	21-Jun-13	5	652.8	97.5			1721.3			
2013	21-Jun-13	6	472.2	62.6			1713.9			
2013	21-Jun-13	7	627.3	74.9			1689.6			
2013	21-Jun-13	8	363.1	23.7			1760.9			
2013	21-Jun-13	9	308.8	32.8			1980.8			
2013	21-Jun-13	10	381.8	32.6			2480.5			
2013	21-Jun-13	11	90.2	75.5			2715.4			
2013	21-Jun-13	12	102.9	90.1			2780.1			
2013	21-Jun-13	13	123.5	176.2			2915.7			
2013	21-Jun-13	14	184.5	438.5			2978			
2013	21-Jun-13	15	253.1	522.1			2988.8			
2013	21-Jun-13	16	603.7	537.3			2944.4			
2013	21-Jun-13	17	667.7	454.3			2662.5			
2013	21-Jun-13	18	622.1	415.7			2372.6			
2013	21-Jun-13	19	620.6	305			2100.1			
2013	21-Jun-13	20	484.5	401.1			1945.3			
2013	21-Jun-13	21	492.6	293.6			1858.6			
2013	21-Jun-13	22	262.6	363.8			1826.6			
2013	21-Jun-13	23	274.2	241.3			2032.2			
2013	22-Jun-13	0	634.4	292.2			1836.8			
2013	22-Jun-13	1	967.9	291			1817.9			
2013	22-Jun-13	2	746.2	342			1808.3			
2013	22-Jun-13	3	476.1	304			1797.6			
2013	22-Jun-13	4	448.2	290.9			1798.7			
2013	22-Jun-13	5	466.2	204.5			1804.6			
2013	22-Jun-13	6	337.4	189.9			1894.3			
2013	22-Jun-13	7	196.7	170.5			2018.3			
2013	22-Jun-13	8	125.1	131.1			2115.7			
2013	22-Jun-13	9	103.8	157.4			2486.4			
2013	22-Jun-13	10	109	127.7			2856.6			
2013	22-Jun-13	11	195.5	207.3			3023.9			
2013	22-Jun-13	12	289.2	277.1			3116.7			
2013	22-Jun-13	13	681.9	336.7			3128.9			
2013	22-Jun-13	14	595.5	342.7			3080.9			
2013	22-Jun-13	15	469.2	388.1			3088.7			
2013	22-Jun-13	16	562.9	512.6			3090.3			
2013	22-Jun-13	17	757.6	341.1			3064.7			
2013	22-Jun-13	18	670.2	273.4			3024.9			
2013	22-Jun-13	19	520.3	138.6			3002.9			
2013	22-Jun-13	20	358.6	280.9			2929.3			
2013	22-Jun-13	21	367.2	173.8			2556.3			
2013	22-Jun-13	22	354.7	183.1			2339.1			
2013	22-Jun-13	23	299.8	177.9			2007.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	23-Jun-13	0	372.3	172.1			1865.6			
2013	23-Jun-13	1	465.9	152.7			1848.4			
2013	23-Jun-13	2	422.9	127			1833.1			
2013	23-Jun-13	3	376.5	129			1818.6			
2013	23-Jun-13	4	331	97.2			1827			
2013	23-Jun-13	5	396.6	120.8			1832			
2013	23-Jun-13	6	355.1	95.5			1846.2			
2013	23-Jun-13	7	210.3	110.5			1800.7			1.35
2013	23-Jun-13	8	70.2	55.6			1827.1		0	2.3
2013	23-Jun-13	9	75.2	61			1902.3		0	1.5
2013	23-Jun-13	10	96.1	54.2			2217.3		0	1.6
2013	23-Jun-13	11	145	88.9			2681.3		20.5	1.6
2013	23-Jun-13	12	273.2	106.5			2934.6		33.5	1.5
2013	23-Jun-13	13	635	178.3		0	3124.6		42.4	1.4
2013	23-Jun-13	14	922.5	363.7		0	3104.4		41.9	1.4
2013	23-Jun-13	15	1192.9	512.2		4.1	3089.9		42.2	7.9
2013	23-Jun-13	16	1466.1	1132.7		1.4	3124		48	12.2
2013	23-Jun-13	17	1408.7	1404.7		0	3140.8		44.8	1.7
2013	23-Jun-13	18	1263	1578.4		0	3119.8		48.6	5.5
2013	23-Jun-13	19	1197.2	1499		0	3101.1		45.4	71.1
2013	23-Jun-13	20	905.9	1482.3		0	3096.1		45.8	119
2013	23-Jun-13	21	720.4	1180.6		0	2986.1		44.1	178.4
2013	23-Jun-13	22	412.2	921.9		0	2725.6		43.6	203.4
2013	23-Jun-13	23	564.4	602.8	0.026	0	2368.7		44.9	293.8
2013	24-Jun-13	0	520.3	617.8	0.064	0	2108.9		63	391.5
2013	24-Jun-13	1	459.1	222.4	0.065	0	1874		67	446.9
2013	24-Jun-13	2	310	244.7	0.054	0	1853.1		81.8	491.2
2013	24-Jun-13	3	305.7	240	0.059	0	1843.6		129	423.9
2013	24-Jun-13	4	348.8	203.5	0.064	0	1817.1		171.9	435.2
2013	24-Jun-13	5	407.5	204.7	0.064	0	1794.4		176.9	453.2
2013	24-Jun-13	6	302.8	160.3	0.064	0	1801.3		272.3	550.6
2013	24-Jun-13	7	230.3	147.5	0.065	61.7	2134.3		284.7	588.1
2013	24-Jun-13	8	308.3	159.9	0.065	359.4	2915.4		357.4	609.6
2013	24-Jun-13	9	385.6	294	0.197	739.1	3093.9		545.4	1018.9
2013	24-Jun-13	10	1286.5	576.6	0.282	1046.5	3090		616.8	1643.8
2013	24-Jun-13	11	1022.2	946	0.286	1402.2	3095.7		693.4	2167.8
2013	24-Jun-13	12	587.2	1314.5	0.386	1822.4	3083.9		841.5	2410.8
2013	24-Jun-13	13	764.8	1381.4	0.318	2039.2	3091.9		951.1	2203
2013	24-Jun-13	14	844.1	613.7	0.549	2081.9	3119.4		801.7	2251.3
2013	24-Jun-13	15	788.8	505.1	0.773	1943	3131.2		781.2	1475.5
2013	24-Jun-13	16	593.7	469.8	0.647	1870.8	3135.5		828.6	1424.2
2013	24-Jun-13	17	710.7	577.7	0.526	1861.1	3160.7		914.6	1568.6
2013	24-Jun-13	18	797.3	499.3	0.359	1884.3	3145.6		747.3	1666.9
2013	24-Jun-13	19	825.3	557.6	0.117	1848.6	3112.3		665.1	1596.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	24-Jun-13	20	1143	457.6	0.049	1872.7	3146.5		542.5	1380.7
2013	24-Jun-13	21	1035.5	316.7	0.037	1474.8	2940.2		454.8	1043.6
2013	24-Jun-13	22	456.5	272.2	0.037	966.6	2635.2	0.01	439.9	1116.7
2013	24-Jun-13	23	266.1	120.5	0.041	794.7	2299.9	0.103	507.2	1268.8
2013	25-Jun-13	0	435.7	88.4	0.052	793.6	2004.4	0.119	577.7	1358.9
2013	25-Jun-13	1	643.2	59.7	0.052	795	1903.9	0.066	585.4	1323.9
2013	25-Jun-13	2	706.3	76.2	0.037	796.7	1905.1	0.062	553.2	1201.5
2013	25-Jun-13	3	783	74.1	0.037	799.3	1908.9	0.052	556.5	1305.5
2013	25-Jun-13	4	850.1	102.1	0.037	821.6	1908.9	0.047	520.2	1352.6
2013	25-Jun-13	5	812.7	72.8	0.036	845.2	1905.6	0.051	496.3	1319.8
2013	25-Jun-13	6	741.9	109.3	0.036	852.9	1896.2	0.053	493.1	1298.2
2013	25-Jun-13	7	473.5	72.6	0.036	843.4	1937.4	0.047	494	1270.4
2013	25-Jun-13	8	299.6	69.6	0.094	843.2	1934.2	0.047	603.6	1420.9
2013	25-Jun-13	9	463.5	74.4	0.238	831.4	1896.2	0.016	828.5	1777.8
2013	25-Jun-13	10	1034.2	103	0.222	857.5	1905.8	149.3	773.4	1664.8
2013	25-Jun-13	11	1251.3	128.3	0.254	897.1	1974.8	310.1	785.6	1559.3
2013	25-Jun-13	12	594.5	344	0.365	1564.5	2439.9	337.647	866.4	1545
2013	25-Jun-13	13	789.4	436.6	0.638	2102.5	2927.3		954.3	1506.8
2013	25-Jun-13	14	802.5	462.4	0.705	2112.2	3202.3		1207.8	1528.2
2013	25-Jun-13	15	727.8	414.9	0.449	2108.4	3284.2		1462.4	1874.2
2013	25-Jun-13	16	461.5	377.5	0.478	2134.6	3266.8		1533.7	2520.2
2013	25-Jun-13	17	524.2	457.6	0.507	2157.6	3265.6		1351.6	2697.7
2013	25-Jun-13	18	472.4	336.7	0.273	1958.4	3230.6		1140.7	2460.2
2013	25-Jun-13	19	626.6	484.8	0.032	2159.9	3312		1407.2	2886.6
2013	25-Jun-13	20	462	656.9		2159.7	3292.6		1468.6	2100
2013	25-Jun-13	21	347	341.3		1880	3212.9		983.1	1367
2013	25-Jun-13	22	229.4	237		1267.4	3098.7		842	1020.8
2013	25-Jun-13	23	198.1	77.9		787.5	2937.9		857.3	1004.8
2013	26-Jun-13	0	158.9	60.4		719.3	2472.8		932.2	1326.8
2013	26-Jun-13	1	152.7	79.9		752.5	2166.8		881.5	1267
2013	26-Jun-13	2	152.6	136.5		760	2012.7		803	804.9
2013	26-Jun-13	3	147.9	112.3	0.032	764.2	1998.8		692.9	846.9
2013	26-Jun-13	4	105.3	139.5	0.05	750.3	2000.7		798	1420.1
2013	26-Jun-13	5	89.9	138.4	0.058	725.9	2002		928.4	1383.7
2013	26-Jun-13	6	122.1	145.2	0.062	723.7	2014.7		907.6	1552
2013	26-Jun-13	7	85	146.3	0.05	728.4	2170.4		793.1	1732.1
2013	26-Jun-13	8	24	88.3	0.077	738.5	2549.1		935.8	1989.4
2013	26-Jun-13	9	65.1	170.1	0.231	1403.7	3083.2		1251.5	1994.7
2013	26-Jun-13	10	65.6	173	0.232	1836	3263.1		1464.7	2078.6
2013	26-Jun-13	11	194.4	204.7	0.236	2019.9	3369.6		1339.6	2369.2
2013	26-Jun-13	12	575.4	453.1	0.432	2047.5	3417.4		1342.1	2759.9
2013	26-Jun-13	13	1393.5	751.8	0.615	2083.4	3413.3		1405.1	2657.7
2013	26-Jun-13	14	1174.8	1371.7	0.381	2106.8	3410.5		1561.4	2622.4
2013	26-Jun-13	15	632.3	1246.3	0.25	2096.7	3437.9		1370.9	2549.4

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	26-Jun-13	16	558.4	724.1	0.229	2070.8	3441.9		1082.6	2560
2013	26-Jun-13	17	513.6	470.4	0.227	1968.5	3389.3		805.3	2472.2
2013	26-Jun-13	18	226.3	396.9	0.228	1616.2	3192.2		687.3	1976
2013	26-Jun-13	19	154.1	289.3	0.052	1161.5	3057.6		743.8	1690.6
2013	26-Jun-13	20	233.5	514.1		1483.6	3224.8		838.3	1901.4
2013	26-Jun-13	21	204.8	214.6		1078	2979.9		650.4	1744.5
2013	26-Jun-13	22	196.1	164.1		808	2519		693.7	1792.3
2013	26-Jun-13	23	128.8	100.5		786.8	2249.3		722.3	1783.1
2013	27-Jun-13	0	123.8	128.4		802.3	2086.5		710.5	1812.4
2013	27-Jun-13	1	194.6	128		802	2069.9		725.2	1718.4
2013	27-Jun-13	2	201.9	122.8		794.5	2075.3		670.5	1757.8
2013	27-Jun-13	3	185.2	119.4		799.9	2071.8		693.7	1681
2013	27-Jun-13	4	137.3	106.8		785.7	2073.2		707.5	1686.9
2013	27-Jun-13	5	163.7	108.3		769.5	2065.8		855.8	1775.7
2013	27-Jun-13	6	177.6	89.3		767.5	2074.9		847.1	1579.6
2013	27-Jun-13	7	108.2	106.3		837	2182.9		825.8	2021.7
2013	27-Jun-13	8	28.5	55.8		783.1	2650.7		797.1	1581.8
2013	27-Jun-13	9	42.2	89		1312.2	3164.1		863.3	1803.2
2013	27-Jun-13	10	284.9	128.1		1869	3411.6		797.5	1819.8
2013	27-Jun-13	11	720.6	302.3		2008.4	3429.4		868.2	1782.6
2013	27-Jun-13	12	1390.8	513.6		2020.8	3458.6		894.2	2043.3
2013	27-Jun-13	13	659	935.4		2027.8	3495.4		870.3	1709.7
2013	27-Jun-13	14	515.7	1062		1982.6	3499.6		882.1	1322.2
2013	27-Jun-13	15	554.9	1122.8		2010.3	3494.3		874.7	1309.5
2013	27-Jun-13	16	558.1	1317.1		1903.6	3470.3		745.4	1223.1
2013	27-Jun-13	17	574.2	1209.3		1840.8	3406.7		647.8	1125
2013	27-Jun-13	18	256.1	723		1301.3	3184.2		465.5	1024.9
2013	27-Jun-13	19	339.8	291.7		849.4	2892.8		457.8	1259.6
2013	27-Jun-13	20	594.2	364.9		898.4	3085.4		468.3	1371.5
2013	27-Jun-13	21	501.6	142.5		816.4	2768.5		508.6	1336.9
2013	27-Jun-13	22	400.4	143.2		811	2484.9		486.6	1317.4
2013	27-Jun-13	23	252.2	99.8		814.4	2335.4		501.9	1336.8
2013	28-Jun-13	0	235	130.5		814.1	2439.7		472.2	1394.4
2013	28-Jun-13	1	259.6	132.8		811.3	2156.9		465	1326
2013	28-Jun-13	2	270	127		805.2	2039.8		473.3	1277.3
2013	28-Jun-13	3	257.4	125		804.2	2016.7		542.7	1255.3
2013	28-Jun-13	4	225.2	113.9		798.8	2032		478.9	1466.1
2013	28-Jun-13	5	257	116.5		792.2	2029.9		467.8	1303.6
2013	28-Jun-13	6	291.4	100.6		802.2	2079.5		465.3	1402.2
2013	28-Jun-13	7	219.1	133.7		910.9	2621		469.4	1557.6
2013	28-Jun-13	8	85.9	90.8		1363.4	3117.8		521.1	2213.3
2013	28-Jun-13	9	130.2	108.8		1729.1	3340.8		550.2	2625.7
2013	28-Jun-13	10	204.5	117.3		1983.8	3403.3		658.7	2731.6
2013	28-Jun-13	11	671.4	188.6		1978.9	3430.7		750	2877.8

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	28-Jun-13	12	1294.3	516.5		1993.8	3426.4		823	2918.1
2013	28-Jun-13	13	1850.4	838.6		2005	3463.9		951.3	3011.8
2013	28-Jun-13	14	1730.4	1356.5		2022.1	3493.2		902.4	3008.9
2013	28-Jun-13	15	1847.6	1316.8		2003.7	3449.6		993.9	2988
2013	28-Jun-13	16	1888.9	1471.5		1794.7	3270.2		718.1	2779.6
2013	28-Jun-13	17	776.6	1481.1		1740	3095.6		628.1	2463.7
2013	28-Jun-13	18	379	1110.7		1561.6	2938.5		635.5	2560.7
2013	28-Jun-13	19	213.1	703.5		1103.2	2527.9		574.3	2028.9
2013	28-Jun-13	20	144.5	442.6		907.3	2437.5		535.7	1813.2
2013	28-Jun-13	21	104.4	209.9		707.4	2121.9		538.1	1187.9
2013	28-Jun-13	22	85.5	182.8		690.4	2035.8		574.8	730.3
2013	28-Jun-13	23	139.1	115.4		438.731	2018		161.766	414.57
2013	29-Jun-13	0	165.6	127.1			2011.6			
2013	29-Jun-13	1	184.4	105.7			1991.9			
2013	29-Jun-13	2	177.5	99.6			1995.2			
2013	29-Jun-13	3	166.8	97.7			2001.6			
2013	29-Jun-13	4	138.6	83.2			1992			
2013	29-Jun-13	5	167.3	86			1991			
2013	29-Jun-13	6	178.3	76.6			1983			
2013	29-Jun-13	7	115.2	78.9			1942.9			
2013	29-Jun-13	8	35.3	45.1			1995.7			
2013	29-Jun-13	9	30	49			2302.6			
2013	29-Jun-13	10	49.8	122.4			2838.5			
2013	29-Jun-13	11	104.3	203.8			3075.3			
2013	29-Jun-13	12	295.1	306.8			3139.1			
2013	29-Jun-13	13	963.4	455.5			3307.9			
2013	29-Jun-13	14	1198.2	718.1			3316.5			
2013	29-Jun-13	15	1679	843.9			3354.4			
2013	29-Jun-13	16	888.8	1175			3364.7			
2013	29-Jun-13	17	872.9	1074.1			3363.5			
2013	29-Jun-13	18	575.4	932.7			3256.5			
2013	29-Jun-13	19	382.1	793.2			3165			
2013	29-Jun-13	20	470.7	930.8			3322.2			
2013	29-Jun-13	21	502	701.4			3163.3			
2013	29-Jun-13	22	262.5	665.7			2821			
2013	29-Jun-13	23	332.9	282.3			2320.7			
2013	30-Jun-13	0	329.7	308.2			2162.7			
2013	30-Jun-13	1	332.7	197			2031.3			
2013	30-Jun-13	2	278.5	172.4			1992			
2013	30-Jun-13	3	209.5	124.8			1987.6			
2013	30-Jun-13	4	182.7	116.4			2004.3			
2013	30-Jun-13	5	215.7	109.4			1999.2			
2013	30-Jun-13	6	227	104			1995.3			
2013	30-Jun-13	7	144.2	80.6			1950.9			



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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	30-Jun-13	8	42.7	52			1975.1			
2013	30-Jun-13	9	58.5	61.2			2128.3			
2013	30-Jun-13	10	72.1	41.2			2606.4			
2013	30-Jun-13	11	254	117.8			3075.5			
2013	30-Jun-13	12	579.9	223.8			3134			
2013	30-Jun-13	13	956.7	428.3			3218			
2013	30-Jun-13	14	974.3	792.4			3272.4			
2013	30-Jun-13	15	1087.7	1038.8			3328.2			
2013	30-Jun-13	16	1079.8	1018.4			3333.7			
2013	30-Jun-13	17	767.2	1022.2			3302.2			
2013	30-Jun-13	18	421.5	877.7			3236.5			
2013	30-Jun-13	19	308.3	392.2			3067.2			
2013	30-Jun-13	20	359.8	445.6			3099			
2013	30-Jun-13	21	378.4	440.8			2978.9			
2013	30-Jun-13	22	192.5	418.6			2528.5			
2013	30-Jun-13	23	204.9	256.9			2113.1			
2013	1-Jul-13	0	195.9	301.4			1924.9			
2013	1-Jul-13	1	209.9	273.5			1996			
2013	1-Jul-13	2	185.8	201.7			1993.1			
2013	1-Jul-13	3	152.9	145.9			2003.2			
2013	1-Jul-13	4	135	135.6			2013			
2013	1-Jul-13	5	158.2	117.6			2003			
2013	1-Jul-13	6	167.2	106.9			1994.3			
2013	1-Jul-13	7	137.8	155.6			2576.6			
2013	1-Jul-13	8	117.4	85.8			3148.6			
2013	1-Jul-13	9	279.9	121.9			3306			
2013	1-Jul-13	10	496.6	231.6			3319.8			
2013	1-Jul-13	11	533.6	268.3			3335.1			
2013	1-Jul-13	12	570	433.3			3325.9			
2013	1-Jul-13	13	705.1	507.8			3311.8			
2013	1-Jul-13	14	603.2	431.2			3148.8			
2013	1-Jul-13	15	1202.9	395.1			3110.7			
2013	1-Jul-13	16	1144.9	422.9			3263.1			
2013	1-Jul-13	17	857.9	449.2			3240			
2013	1-Jul-13	18	834.4	277.3			3080.1			
2013	1-Jul-13	19	706.9	128.4			2711.9			
2013	1-Jul-13	20	403	108.8			2508			
2013	1-Jul-13	21	378.4	66			2342.9			
2013	1-Jul-13	22	198.7	62.1			1970.3			
2013	1-Jul-13	23	316.7	87.5			1955.5			
2013	2-Jul-13	0	263.3	173.9			1962.4			
2013	2-Jul-13	1	239.2	143			1968.4			
2013	2-Jul-13	2	219	142.9			1958.2			
2013	2-Jul-13	3	215.9	115.8			1952.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	2-Jul-13	4	177.1	117.3			1965.6			
2013	2-Jul-13	5	188.4	101.2			1965.1			
2013	2-Jul-13	6	260.8	127.1			2069			
2013	2-Jul-13	7	436.9	153.9			2928.3			
2013	2-Jul-13	8	327.8	211			3052.9			
2013	2-Jul-13	9	229.2	279.5			3065.5			
2013	2-Jul-13	10	539.4	292.8			3257.6			
2013	2-Jul-13	11	1142.1	503.6			3323.9			
2013	2-Jul-13	12	1376.7	1239.4			3328.3			
2013	2-Jul-13	13	904.3	1299.2			3326.9			
2013	2-Jul-13	14	651.9	1413.3			3333.2			
2013	2-Jul-13	15	471.5	1176			3329			
2013	2-Jul-13	16	508.9	954.7			3308.4			
2013	2-Jul-13	17	509.9	601.2			3251.5			
2013	2-Jul-13	18	288.5	478.1			3018.6			
2013	2-Jul-13	19	196.2	399.4			2862.7			
2013	2-Jul-13	20	228.8	397.1			2985.7			
2013	2-Jul-13	21	204.4	186.7			2645.1			
2013	2-Jul-13	22	266.2	210.5			2274.9			
2013	2-Jul-13	23	257.6	148.8			1979.3			
2013	3-Jul-13	0	221.9	244.5			1972.2			
2013	3-Jul-13	1	257.1	209.4			1966.1			
2013	3-Jul-13	2	226.4	181.8			1959.1			
2013	3-Jul-13	3	183.4	161.4			1952.3			
2013	3-Jul-13	4	163.8	146.4			1926.8			
2013	3-Jul-13	5	191.1	148.2			1941.2			
2013	3-Jul-13	6	186.6	127.8			1943.8			
2013	3-Jul-13	7	124.8	149.6			2176.8			
2013	3-Jul-13	8	104.1	106.9			2694.3			
2013	3-Jul-13	9	273.7	257.5			3033.7			
2013	3-Jul-13	10	523.3	449.3			3167.6			
2013	3-Jul-13	11	950.6	1047.6			3217.2			
2013	3-Jul-13	12	1013.3	1058.3			3223.1			
2013	3-Jul-13	13	830	809.4			3201.2			
2013	3-Jul-13	14	851.1	802.2			3195.1			
2013	3-Jul-13	15	802.3	888.1			3201.3			
2013	3-Jul-13	16	691.5	755.7			3232.1			
2013	3-Jul-13	17	602.3	658.6			3182.2			
2013	3-Jul-13	18	413.3	408			3135.3			
2013	3-Jul-13	19	236.9	243.4			2885.7			
2013	3-Jul-13	20	177.5	207.3			2874.9			
2013	3-Jul-13	21	232.7	128.7			2529.6			
2013	3-Jul-13	22	417.8	283.1			2432.9			
2013	3-Jul-13	23	347.9	191.5			2170.3			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	4-Jul-13	0	347.4	271.7			2024.9			
2013	4-Jul-13	1	300.3	169.7			1983.4			
2013	4-Jul-13	2	268.7	162.4			1964.2			
2013	4-Jul-13	3	206.2	158.6			1957.7			
2013	4-Jul-13	4	190.8	152.4			1970.5			
2013	4-Jul-13	5	221.6	163.8			1973.4			
2013	4-Jul-13	6	200.2	163.8			1972.9			
2013	4-Jul-13	7	133.7	130			1948.7			
2013	4-Jul-13	8	92.1	80.6			1976.8			
2013	4-Jul-13	9	71.2	94.4		0	2303.5			
2013	4-Jul-13	10	54.9	97.9		0	2841.9		0	
2013	4-Jul-13	11	88.1	303.9		5.8	3037.1		0	
2013	4-Jul-13	12	327.7	696.5		0.4	3265.7		29.4	1.575
2013	4-Jul-13	13	1259	1215.2		0	3295.3		84.2	3.4
2013	4-Jul-13	14	1124.3	1024		0	3317.8		88.2	1.5
2013	4-Jul-13	15	761.3	581.2		0	3330.7		68.1	2
2013	4-Jul-13	16	650.2	622.3		0	3304.6		81.8	2
2013	4-Jul-13	17	677.3	558.4		0	3267.3		71.7	1.9
2013	4-Jul-13	18	506.1	418.8		0	3048.3		68.2	1.6
2013	4-Jul-13	19	261.7	267.6		0	2666.4		68.5	1.6
2013	4-Jul-13	20	246.7	216.7		0	2272.2		68.3	1.5
2013	4-Jul-13	21	329.7	101.1		0	2108.1		66	1.5
2013	4-Jul-13	22	231.8	118.6	0.029	0	2269.6		65.3	1.3
2013	4-Jul-13	23	353.3	140.5	0.052	0	2045.9		83.3	35.1
2013	5-Jul-13	0	432.7	255.5	0.077	0	2035.4		84.6	266.7
2013	5-Jul-13	1	465.6	201.7	0.077	0	1983.9		80.1	692.9
2013	5-Jul-13	2	319.4	181.8	0.077	0	1971.6		99.3	1021
2013	5-Jul-13	3	239.4	127.3	0.065	0	1982.8		131.2	1509.5
2013	5-Jul-13	4	199.2	134.9	0.053	0	1982.3		220.5	1421.5
2013	5-Jul-13	5	205	129.8	0.053	146	1989.5		300.8	1353.5
2013	5-Jul-13	6	119.8	84.2	0.053	436.7	1980.2		347.5	1419.2
2013	5-Jul-13	7	44.6	23.2	0.074	693.4	2043.1		427.8	1273.3
2013	5-Jul-13	8	46.1	33.6	0.097	705.3	2448.6		519	1473.6
2013	5-Jul-13	9	108.2	175.5	0.232	1035.4	2892.5		745.7	2058.3
2013	5-Jul-13	10	901	611.1	0.222	1618.8	3103		943.3	2569.7
2013	5-Jul-13	11	924.2	1248.4	0.264	2014.7	3299.5		774	2605.6
2013	5-Jul-13	12	1299.5	1308.7	0.285	2082.1	3320.8		817	2601.3
2013	5-Jul-13	13	1409.7	1342.7	0.275	2088.3	3333.6		801.7	2591.7
2013	5-Jul-13	14	904.7	1329.5	0.336	2053.2	3336.9		786.5	2416.2
2013	5-Jul-13	15	671.8	1256.5	0.5	2045.4	3342.4		840.5	2526.1
2013	5-Jul-13	16	726	961.5	0.445	1979.6	3318.7		829.3	2638.1
2013	5-Jul-13	17	716.7	799.7	0.24	1976.4	3323.8		814.2	2939.8
2013	5-Jul-13	18	492.2	773.7	0.028	1803.5	3246.3		870.7	3211.9
2013	5-Jul-13	19	310.5	563		1172.8	3104.8		698.4	2606.3

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Jul-13	20	317.7	652.2		878.2	3215		682.6	2278.7
2013	5-Jul-13	21	249.7	511.2		880.1	3178.1		675.1	2179.8
2013	5-Jul-13	22	205.9	391		788.4	3052.9		692.6	1729.4
2013	5-Jul-13	23	154.5	403.4		747.4	2954.2		729.1	1200.8
2013	6-Jul-13	0	127.4	492.5		759.2	2892.7		681.9	1245.4
2013	6-Jul-13	1	141.8	307.4		765	2571.6		612.9	1128
2013	6-Jul-13	2	166.1	291.5		774.3	2186.6		578.2	1053.6
2013	6-Jul-13	3	130.3	213.8		778.9	1991.9		574.9	1268.2
2013	6-Jul-13	4	145.4	186.2		780.6	1994.2		673.3	1469
2013	6-Jul-13	5	134.7	187.7		785.6	1983.2		595.6	1426
2013	6-Jul-13	6	292	174.9		775.3	1989.2		588.8	1442.9
2013	6-Jul-13	7	155.5	180.3		858.2	2059.6		755.5	1539.2
2013	6-Jul-13	8	131.5	192.9		1256.1	2521.3		950.8	2299.6
2013	6-Jul-13	9	260.1	335.4		1716.2	2958.6		1028.3	2997.8
2013	6-Jul-13	10	641.2	556.2		1933.1	3244.6		1033.2	3192.5
2013	6-Jul-13	11	1190.6	1335.9		1934.2	3289.3		1133.3	2924.8
2013	6-Jul-13	12	1247.9	1435.1		1934.1	3299.4		1071.6	2775.8
2013	6-Jul-13	13	1423.7	1023.2		1941.5	3302.9		829.9	2552.2
2013	6-Jul-13	14	1294.8	743.5		1966.9	3330.3		772.4	2486.7
2013	6-Jul-13	15	1275.4	816.7		1967.9	3330.8		791.3	2567.4
2013	6-Jul-13	16	914.6	802.2		1978.4	3318.3		788.3	2430.1
2013	6-Jul-13	17	718.5	825.3		1970.6	3319.4		860.2	2415.2
2013	6-Jul-13	18	643	844.3		2001.3	3326.8		832.7	2372.3
2013	6-Jul-13	19	643.7	862.3		1831.1	3337.1		804.7	2290.7
2013	6-Jul-13	20	758	836.4		1909.6	3341.3		851.4	2267.5
2013	6-Jul-13	21	559.6	679		1685.6	3222.3		644	2039.7
2013	6-Jul-13	22	479.9	338		929.4	2873.3		493.9	1761.5
2013	6-Jul-13	23	257.5	156.1		792.8	2519.2		514.2	1603.2
2013	7-Jul-13	0	202.8	321.5		787.5	2284.8		525.9	1540.7
2013	7-Jul-13	1	260.2	230.9		780.1	2245.9		604.6	1623.7
2013	7-Jul-13	2	192.1	213.8		778	2229.5		542.2	1515.8
2013	7-Jul-13	3	176.2	179.5		773.6	2116.1		512.6	1624.2
2013	7-Jul-13	4	186.6	170.6		770.8	2084.8		616.6	1713.7
2013	7-Jul-13	5	188.7	176		762.4	2087.7		653.5	1594.4
2013	7-Jul-13	6	171.9	140.2		748.9	2098.4		703.9	1566.6
2013	7-Jul-13	7	159.3	146.6		752.1	2079.3		704.3	1512.9
2013	7-Jul-13	8	165.9	126.9		804.2	2357		675.9	1485
2013	7-Jul-13	9	202.3	153.7		772.6	2521.8		727.9	1616.6
2013	7-Jul-13	10	454.5	268.3		1401.3	3029.5		742.2	2485.7
2013	7-Jul-13	11	1190.1	590.8		1950.9	3195.8		629	2393.8
2013	7-Jul-13	12	1336.2	1252		1923.9	3480		622.6	2485.2
2013	7-Jul-13	13	1312.1	1244.1		1925.5	3507.9		838.9	2509
2013	7-Jul-13	14	902.1	1012.9		1943.7	3472		704.2	2460.8
2013	7-Jul-13	15	865.9	858.5		1952	3471.2		869.4	2384.2

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	7-Jul-13	16	985.6	784.7		1955.9	3496.1		965.2	2359.2
2013	7-Jul-13	17	1057	834.5		1954.1	3478		995.7	2407.7
2013	7-Jul-13	18	903.8	811.8		1936.4	3511.9		1103	2477.3
2013	7-Jul-13	19	842.9	905.5		1931.2	3514.6		1166.8	2549.8
2013	7-Jul-13	20	682.6	617.9		1660.7	3355.9		900.7	2284.7
2013	7-Jul-13	21	483.9	353		986.4	3044		629.3	1774.9
2013	7-Jul-13	22	296.4	439.7		783.1	2821.2		572.6	1636.6
2013	7-Jul-13	23	172.2	229.2		791.4	2524.3		565.4	1627.1
2013	8-Jul-13	0	161.5	291.9		789	2277.1		551.6	1632.8
2013	8-Jul-13	1	130.6	194.8	0.012	796.8	2124.9		656.3	1580.3
2013	8-Jul-13	2	173.5	145.1	0.064	805.4	2104.3		768	1670.5
2013	8-Jul-13	3	231.6	159.2	0.07	811.3	2089.5		809.6	1636.7
2013	8-Jul-13	4	212.8	132.5	0.076	822.1	2095.7		911.6	1522.4
2013	8-Jul-13	5	218.3	137.2	0.076	825.7	2106.6		902.5	1538.6
2013	8-Jul-13	6	206.5	115.7	0.065	825.5	2076.1		777.8	1622.6
2013	8-Jul-13	7	188.4	128	0.054	842.8	2138.9		840.8	1422.2
2013	8-Jul-13	8	175.2	73.2	0.076	842	2567.1		754.1	1573.6
2013	8-Jul-13	9	265.8	97.1	0.239	857	2809.6		702.4	1643.1
2013	8-Jul-13	10	315.8	112.8	0.221	1161.8	3214.4		710.7	1782.4
2013	8-Jul-13	11	596.4	372.4	0.239	1908.2	3448.9		741.8	1908.3
2013	8-Jul-13	12	1004.8	508.8	0.225	1992.1	3507		840.4	1933.3
2013	8-Jul-13	13	1220.4	940.4	0.297	1977.9	3516.5		720.8	2442.6
2013	8-Jul-13	14	817.5	441.1	0.51	1974.1	3503.2		786.2	2547.7
2013	8-Jul-13	15	761.1	443	0.492	1974.6	3510.9		866.1	2249.9
2013	8-Jul-13	16	951.8	353.4	0.336	1997.9	3507.8		758	2037.2
2013	8-Jul-13	17	1078.7	399.6	0.411	2023.9	3493.5		678.5	1984.1
2013	8-Jul-13	18	951.8	414.9	0.104	2025.3	3475.1		658.4	2007.6
2013	8-Jul-13	19	886.2	535.7		2002.3	3461.9		617.1	1427.3
2013	8-Jul-13	20	1009.3	508.6		2006.5	3438.6		637.5	1335.3
2013	8-Jul-13	21	746.7	447.5		1714.9	3306.6		582.7	1252.7
2013	8-Jul-13	22	557.6	321.6		971.7	2964.2		533.6	840.8
2013	8-Jul-13	23	629.3	367.2		808.6	2706.4		483.5	796.6
2013	9-Jul-13	0	582.9	498.8		811.7	2303.9		483.4	848.8
2013	9-Jul-13	1	491.4	278.8		799.6	2059.5		554.6	852.5
2013	9-Jul-13	2	368.4	358.9		792.6	2025		518.7	811.1
2013	9-Jul-13	3	329.7	232		790.1	2015.3		511.5	923.8
2013	9-Jul-13	4	337.4	182.6		789.7	2004.6		500.2	981.1
2013	9-Jul-13	5	329.1	180.1		789.9	2011.5		474.1	924.2
2013	9-Jul-13	6	312.3	219.5		790.5	2206.8		504.1	1074.9
2013	9-Jul-13	7	314.1	213.7		800.9	2718.4		632.3	1221.7
2013	9-Jul-13	8	248.2	163.4	0.026	965.8	3070.6		584.1	1118.5
2013	9-Jul-13	9	340.9	309	0.076	1357.9	3276.7		501.6	1240.7
2013	9-Jul-13	10	555.3	410.5	0.076	1522.4	3312.1		489	1312.6
2013	9-Jul-13	11	644.9	658.8	0.266	1921.3	3338.5		551	1576.4

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	9-Jul-13	12	789.7	983	0.243	1961.7	3312.3		587.4	1693.4
2013	9-Jul-13	13	930.3	1033.7	0.267	1994.3	3321		709.6	2116.9
2013	9-Jul-13	14	845.1	685.2	0.289	2009.5	3327		788.5	2337.1
2013	9-Jul-13	15	814.4	651.8	0.263	1992.5	3310.9		722.1	2244.9
2013	9-Jul-13	16	730.9	669.5	0.394	2012.9	3338.3		774.5	2486.5
2013	9-Jul-13	17	943.1	626.9	0.303	1959	3327.4		815	2481.8
2013	9-Jul-13	18	1385.5	683.7	0.288	1923	3304.1		750.4	2426.7
2013	9-Jul-13	19	998.9	737.7	0.359	2043.5	3357.6		834.4	2506.6
2013	9-Jul-13	20	917.4	826.2	0.505	2043.5	3368.8		823.8	2488.2
2013	9-Jul-13	21	745	685.7	0.353	1896.9	3338.6		777.6	2329.4
2013	9-Jul-13	22	444.7	417.6	0.073	1335.9	3161.4		546.4	2245.4
2013	9-Jul-13	23	274.5	215.1		934.8	2735.8		529.1	1892.9
2013	10-Jul-13	0	193.7	136.6		748.9	2336.9		536.3	1465.6
2013	10-Jul-13	1	251.1	99		753.2	2064		515.3	1425
2013	10-Jul-13	2	287.4	166.7		755.2	2013.9		691.9	1527.7
2013	10-Jul-13	3	260.8	165.4		758.9	1984.4		806.6	1520.6
2013	10-Jul-13	4	278.3	175.5		761.9	2091.3		721.2	1602
2013	10-Jul-13	5	230	209.8	0.038	783.2	2383.9		692.4	1676.3
2013	10-Jul-13	6	218.8	227.6	0.064	838.1	2673.8		719.6	1762
2013	10-Jul-13	7	344.1	280.6	0.054	1655.3	3027		827.1	1943.1
2013	10-Jul-13	8	1110.9	387.5	0.166	2029.6	3263.3		784.2	2390.4
2013	10-Jul-13	9	979.8	821.6	0.279	2019	3268.2		755.3	2638.2
2013	10-Jul-13	10	627.9	672.6	0.293	1921.7	3227.8		741.8	2003.8
2013	10-Jul-13	11	583.1	1019.5	0.291	1990.8	3293.4		748.2	1838.6
2013	10-Jul-13	12	677.3	877	0.44	2142.2	3306.9		786.7	1762.7
2013	10-Jul-13	13	675.8	690.4	0.346	2566.8	3307.4		775.6	1798.4
2013	10-Jul-13	14	610.2	655.3	0.391	0	3315.7		806.1	2144.5
2013	10-Jul-13	15	621.6	646.5	0.335	0	3287.3		772.3	1796.3
2013	10-Jul-13	16	727.9	686.4	0.404	153.5	3344.6		801.3	1891.1
2013	10-Jul-13	17	993.3	830.3	0.328	959.2	3337.7		770	1907.8
2013	10-Jul-13	18	874.6	663.9	0.302	1074.2	3294.9		641.5	1560.9
2013	10-Jul-13	19	798.6	707.4	0.324	490.336	3332.3		690.9	2020.1
2013	10-Jul-13	20	779.8	605.7	0.304		3346.5		773.8	2259
2013	10-Jul-13	21	573.6	505.3	0.247		3266.2		537.3	1811.3
2013	10-Jul-13	22	356.9	282.7	0.225		2919.7		566.9	1413
2013	10-Jul-13	23	216.7	189	0.062		2461		587.9	1478
2013	11-Jul-13	0	248.3	264.6			2152.3		589.9	1473.4
2013	11-Jul-13	1	227.6	229.8			2020.2		562.4	1427.9
2013	11-Jul-13	2	176.1	193.6			1996.5		531.3	1596.1
2013	11-Jul-13	3	166.2	152.1			2006.1		544.3	1703.5
2013	11-Jul-13	4	166.4	133.4			2069.5		722	1640.1
2013	11-Jul-13	5	161	138.4			2116.5		879.4	1593
2013	11-Jul-13	6	149.2	124.5			2094.3		976	1528.8
2013	11-Jul-13	7	140.3	115.5			2422.6		772.1	1287.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	11-Jul-13	8	119.6	117.8			2709.9		720.3	1234.1
2013	11-Jul-13	9	109.9	136.7			2691		681.8	1295.4
2013	11-Jul-13	10	85.2	131.3			2790.4		578.7	1283.1
2013	11-Jul-13	11	128.3	248.1			3069.3		492.8	1402.5
2013	11-Jul-13	12	219.3	379			3304.9		534.3	1824.6
2013	11-Jul-13	13	696.2	729.6			3441		668.5	2088.5
2013	11-Jul-13	14	915.4	1208.7			3437.2		851.4	2434.5
2013	11-Jul-13	15	798.1	1212.9			3476.6		811.2	2409.4
2013	11-Jul-13	16	574.4	825.3			3535.7		796.2	2365.5
2013	11-Jul-13	17	582.7	847.8			3528.8		876.2	2376.1
2013	11-Jul-13	18	513.7	792.4	0.025		3558.3		688.1	2137.2
2013	11-Jul-13	19	438.4	702.7	0.069		3486.8		583.7	1905.8
2013	11-Jul-13	20	444.4	587.8	0.076		3397.1		519.1	1646.3
2013	11-Jul-13	21	765.4	265.1	0.053		3131.5		1060.5	374.55
2013	11-Jul-13	22	433.1	139.2	0.051		2633.2		625.8	
2013	11-Jul-13	23	296	129.2	0.052		2184.3		364.968	
2013	12-Jul-13	0	259.1	126.5	0.051		368.391			
2013	12-Jul-13	1	212.5	109.8	0.048					
2013	12-Jul-13	2	192.4	84.2	0.065					
2013	12-Jul-13	3	186.5	83.1	0.052					
2013	12-Jul-13	4	183.5	64.4	0.052					
2013	12-Jul-13	5	164.8	65.8	0.052					
2013	12-Jul-13	6	152.8	53.5	0.052					
2013	12-Jul-13	7	149.3	44.4	0.052					
2013	12-Jul-13	8	130	37.6	0.052					
2013	12-Jul-13	9	205.7	94.2	0.052					
2013	12-Jul-13	10	85.2	72.9	0.052					
2013	12-Jul-13	11	107.7	295	0.052					
2013	12-Jul-13	12	155.2	432.8	0.053					
2013	12-Jul-13	13	143.1	417.3	0.052					
2013	12-Jul-13	14	106	371.1	0.052					
2013	12-Jul-13	15	105.3	385.9	0.002					
2013	12-Jul-13	16	164.1	443.4						
2013	12-Jul-13	17	173.4	384.8						
2013	12-Jul-13	18	112.6	288.1						
2013	12-Jul-13	19	92.1	253.6						
2013	12-Jul-13	20	108.6	205.5						
2013	12-Jul-13	21	119.7	232.2						
2013	12-Jul-13	22	104.4	193.4						
2013	12-Jul-13	23	101.8	220.4						
2013	13-Jul-13	0	131.1	188						
2013	13-Jul-13	1	162.5	200.8						
2013	13-Jul-13	2	145.4	190.4						
2013	13-Jul-13	3	136.6	215.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	13-Jul-13	4	140.1	194.4						
2013	13-Jul-13	5	155.4	218.9						
2013	13-Jul-13	6	135.8	200.6						
2013	13-Jul-13	7	131.3	165.5						
2013	13-Jul-13	8	99.9	118.8						
2013	13-Jul-13	9	95.4	115.1					0	
2013	13-Jul-13	10	119.8	145.4					11.3	1.2
2013	13-Jul-13	11	229.9	407.4					56.8	3.5
2013	13-Jul-13	12	635.9	568.5					65.8	1.8
2013	13-Jul-13	13	882.7	691.2					52.5	1.8
2013	13-Jul-13	14	1286	504.2					46.8	51.7
2013	13-Jul-13	15	1011.1	683.7					57.3	88.4
2013	13-Jul-13	16	713	670.1	0.047				68.6	2.4
2013	13-Jul-13	17	546.2	659.5	0.065	0			71.5	2
2013	13-Jul-13	18	499.2	654.1	0.065	0			55	1.26
2013	13-Jul-13	19	555.5	874	0.081	4	0		56.4	
2013	13-Jul-13	20	598.9	684.9	0.086	0	0		59.4	
2013	13-Jul-13	21	434.5	425.3	0.064	0	362.3		70.2	
2013	13-Jul-13	22	448	342.7	0.053	0	487.6		58	0.94
2013	13-Jul-13	23	381.5	196.6	0.058	0	577.8		54.6	34.4
2013	14-Jul-13	0	413.7	145.2	0.064	0	675.6		64.5	20.4
2013	14-Jul-13	1	378.1	134.5	0.056	0	1577.9		95.6	125.1
2013	14-Jul-13	2	343.5	102.1	0.04	0	2109.9		160.9	528
2013	14-Jul-13	3	331.5	100.4	0.036	0	2245.9		191.4	1267
2013	14-Jul-13	4	327.4	91.5	0.036	0	2292.9		233.1	1330.9
2013	14-Jul-13	5	362.5	145.2	0.036	6.2	2283.8		343.6	1247.1
2013	14-Jul-13	6	373.9	165.5	0.007	0	2238.9		541.5	1237.2
2013	14-Jul-13	7	358.4	146		8.8	2240.2		664.3	1452
2013	14-Jul-13	8	332.6	173.3		0.2	2304.4		634.8	1607.2
2013	14-Jul-13	9	483.1	196.5		273.6	2583.2		669.8	2062.7
2013	14-Jul-13	10	552.3	202.5		721.3	3178.9		657.6	2545
2013	14-Jul-13	11	718.3	563.1		1003.1	3559.3		381.836	2229.5
2013	14-Jul-13	12	1238.2	776.2		1384.6	3774.4			2118.4
2013	14-Jul-13	13	995.5	1159.1		1391.7	3799.3		12.39	2157.7
2013	14-Jul-13	14	929.5	806.5		1405.3	3781.9		51.4	2179.6
2013	14-Jul-13	15	858.5	734.1		1404.7	3778.8		71.5	2225.3
2013	14-Jul-13	16	1073.2	720.5		1400.4	3806.7		59.3	2133.7
2013	14-Jul-13	17	1355.7	894.9		1342.4	3837.8		99.3	2144.7
2013	14-Jul-13	18	1273.5	957.6		1330.9	3841.1		290.4	2038.3
2013	14-Jul-13	19	1293	959.6		1334.9	3836		330.4	1926.1
2013	14-Jul-13	20	1425.9	932.9		1333.5	3814	0.062	412.8	1902.3
2013	14-Jul-13	21	946.8	1024.1		1323	3807	0.085	473.4	1694.7
2013	14-Jul-13	22	512	976.1		1242.6	3763.6	0.106	478.2	1495.4
2013	14-Jul-13	23	242.5	724.1		888.9	3576.2	0.071	504.2	1180.5



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	15-Jul-13	0	281.1	485.8		780.7	3109.2	0.07	442.6	981.5
2013	15-Jul-13	1	319.6	319.9	0.035	755.3	2544	0.047	450	1161.8
2013	15-Jul-13	2	175.2	214.5	0.07	742.3	2220.7	0.047	452.1	1370.8
2013	15-Jul-13	3	126.2	219.3	0.06	725.7	2229.5	0.047	442.2	1098.5
2013	15-Jul-13	4	136.6	140.4	0.065	718.8	2294.1	0.047	461.4	933.4
2013	15-Jul-13	5	154.5	164.8	0.059	728.4	2526.5	269.3	433.7	904.4
2013	15-Jul-13	6	133.4	151.2	0.058	761.4	2614.9	298.4	440.3	1027.8
2013	15-Jul-13	7	170.4	131.4	0.101	1196.9	3091.6	320.1	562.3	1523.7
2013	15-Jul-13	8	314.5	496.7	0.232	1310	3514.2	328.4	730.9	1896.3
2013	15-Jul-13	9	487.8	644.2	0.391	1355.7	3680.5	298.8	682.3	1841
2013	15-Jul-13	10	806.8	917.6	0.693	1366.3	3712.4	637.4	667.6	2091.2
2013	15-Jul-13	11	886.6	903.9	0.888	1387.3	3726.5	767.9	711.4	2154.7
2013	15-Jul-13	12	984.6	1067.8	0.901	1417.3	3779.3	608.5	776.4	2056.4
2013	15-Jul-13	13	1143.2	921	0.9	1436.1	3780.8	657.6	847.6	1826.9
2013	15-Jul-13	14	1091.9	917.3	0.901	1483.9	3763.4	735.4	765.9	2084.2
2013	15-Jul-13	15	1245	700.1	0.798	1518.1	3707.8	954.2	629.8	2208.2
2013	15-Jul-13	16	1368.7	720.2	0.885	1545.3	3775.5	613	1087.9	2442.2
2013	15-Jul-13	17	1386	718.7	0.901	1536.7	3796.8	608.6	1175.8	2616.7
2013	15-Jul-13	18	1304.5	841.3	0.858	1543.6	3847.5	606.4	1260.6	2646.6
2013	15-Jul-13	19	1387.5	1070.5	0.894	1551.9	3831.4	603.9	1227.3	2537.1
2013	15-Jul-13	20	1523.2	1284	0.884	1565.6	3836.2	603.9	1281.3	2333.6
2013	15-Jul-13	21	1489.3	1140.1	0.554	1555.9	3820.8	600	1191.9	2274.1
2013	15-Jul-13	22	1256.3	1099.3	0.058	1544.6	3836.1	603.9	1183	2381.2
2013	15-Jul-13	23	913.1	801.2		1457	3710.3	0.011	988.3	2148.7
2013	16-Jul-13	0	767	484.1		984.2	3337.2		834.6	2001.9
2013	16-Jul-13	1	566.4	224.2		894	2806.1		729.6	1808.5
2013	16-Jul-13	2	355.1	154.4		860.6	2392		735.9	1569.8
2013	16-Jul-13	3	260	188.5		849.6	2311.1		634.5	1467.2
2013	16-Jul-13	4	229.5	199.1	0.037	843.1	2417.1		575.9	1448.8
2013	16-Jul-13	5	236.9	186.7	0.073	859	2755		624.1	1580
2013	16-Jul-13	6	270	270	0.061	1236.1	3120.1		603.8	1700.1
2013	16-Jul-13	7	371.3	191.6	0.223	1356.2	3473.5		882	1923.8
2013	16-Jul-13	8	590.9	606.2	0.352	1404.7	3771.2		1057.1	2485.1
2013	16-Jul-13	9	782.2	702.3	0.64	1819	3803.8		1190.4	2494.1
2013	16-Jul-13	10	698.4	763.7	0.824	2220.2	3848.7		1192.4	2492.5
2013	16-Jul-13	11	685	835.2	0.892	2230.6	3874.9		1358.6	2506.5
2013	16-Jul-13	12	720.4	941.4	0.859	2241.4	3900.4		1558.5	2808.8
2013	16-Jul-13	13	885.2	768.3	0.899	2256	3977.4		2022.1	2913.3
2013	16-Jul-13	14	805	937.9	0.9	2278.6	3984.9		1932.7	3244.1
2013	16-Jul-13	15	743	754.3	0.898	2328.3	3980.7		1761.3	3031.5
2013	16-Jul-13	16	838.4	687.7	0.899	2344.7	4010.3		1561.7	3009.5
2013	16-Jul-13	17	875.2	666.5	0.897	2376.6	4043.5		1444.6	3037.4
2013	16-Jul-13	18	756.2	756.4	0.897	2378.7	4080.2		1472.8	2785
2013	16-Jul-13	19	700.7	580.8	0.89	2367.7	4060.6		1469	2555.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Jul-13	20	784.6	748.8	0.887	2369.2	4042.9		1029.3	2430.9
2013	16-Jul-13	21	788.4	651.7	0.511	2455.2	4041.9		947.6	2423.4
2013	16-Jul-13	22	567.3	615.1	0.304	2468.2	4103.1		832.3	2138.4
2013	16-Jul-13	23	357	521.1	0.025	2470.7	3986.9		670.9	1711.1
2013	17-Jul-13	0	217	354.6		2104	3707		586.7	1351.1
2013	17-Jul-13	1	159	173.4		1224.6	3189.1		587.9	1347.1
2013	17-Jul-13	2	313.6	139.6	0.009	993.1	2839.3		634.5	1441.6
2013	17-Jul-13	3	369.3	270.6	0.036	988.7	2619		753.4	1161
2013	17-Jul-13	4	378.4	364.7	0.043	990.4	2438.5		696.3	930.2
2013	17-Jul-13	5	444.9	331.7	0.053	1015.6	2515.4		655.3	913.2
2013	17-Jul-13	6	457.9	483.1	0.093	1279.9	3065.2		664.9	1494.9
2013	17-Jul-13	7	580.7	318.1	0.238	1923.5	3682.3		873.5	1769.1
2013	17-Jul-13	8	736.8	778.9	0.401	2425.3	3907.1		1396.4	2021.4
2013	17-Jul-13	9	1245.8	1183.4	0.688	2441.3	4007.4		1661.9	2490.4
2013	17-Jul-13	10	1245.3	826	0.864	2518.9	4025.7		1975.8	2565.5
2013	17-Jul-13	11	845	602.9	0.897	2556.7	4052.4		2129.1	3017.7
2013	17-Jul-13	12	634.4	592.5	0.899	2575.8	4055.1		1715.5	2887.7
2013	17-Jul-13	13	680.7	541.1	0.9	2580.2	4076.1		1536.5	2574
2013	17-Jul-13	14	664.6	636.4	0.901	2592.8	4099.1		1341.2	2503.8
2013	17-Jul-13	15	652.1	515	0.897	2608.3	4118.9		1085.4	2344.4
2013	17-Jul-13	16	697.1	691.4	0.898	2645.9	4127.8		1056.6	2311.4
2013	17-Jul-13	17	847.4	671.1	0.901	2693.3	4136.6		941.5	2323.9
2013	17-Jul-13	18	841.5	909.2	0.878	2735.9	4179		845.2	2347.8
2013	17-Jul-13	19	781.8	720	0.871	2769.7	4200.2		822.8	2482.3
2013	17-Jul-13	20	748.8	695	0.891	2776.4	4187.5	0.059	893.4	2498.3
2013	17-Jul-13	21	727.7	549.7	0.578	2781.2	4063.4	0.125	939.1	2214.3
2013	17-Jul-13	22	434.9	478.4	0.14	2491.2	3973.3	0.085	731.7	1849.3
2013	17-Jul-13	23	316.7	325.4		2308	3840.6	0.042	684.3	1764.8
2013	18-Jul-13	0	303.7	253.2		2006.6	3646.6	468.197	671.3	1720.4
2013	18-Jul-13	1	624.6	345.9		1186.4	3148.4	686.247	808	1718
2013	18-Jul-13	2	406.3	358.1	0.01	1006.6	2892.3	691.649	717.7	1715.3
2013	18-Jul-13	3	355.6	282.9	0.051	991.8	2543.2	683.525	725.5	1733.2
2013	18-Jul-13	4	392.3	363.7	0.052	987	2500.2	415.7	755.7	1551
2013	18-Jul-13	5	435.4	332.1	0.052	1007.9	2616.1	619.1	802.4	1482
2013	18-Jul-13	6	630.6	467.3	0.081	1624.7	3039.3	639.5	966.6	1979.9
2013	18-Jul-13	7	901.8	675.1	0.232	2315.1	3529.6	640.8	1115.1	2634.9
2013	18-Jul-13	8	1415.6	1247.3	0.377	2624.7	3792.7	641.3	1287.6	2850
2013	18-Jul-13	9	1352.1	830.8	0.692	2640.7	4039.3	894.8	1332.2	2891.3
2013	18-Jul-13	10	295	663.9	0.899	2680.6	4054.7	779.5	1283.5	2911.5
2013	18-Jul-13	11	447.9	757	0.894	2673.6	4041.9	636.8	1252.9	2803
2013	18-Jul-13	12	627.2	855.7	0.899	2695.4	4067.3	892.7	1229	2812.2
2013	18-Jul-13	13	687.1	787.3	0.784	2694.7	4019.4	1756.3	1095.5	2791.9
2013	18-Jul-13	14	462.5	822.7	0.814	2728.4	4020.9	2203.5	1033.4	2751.7
2013	18-Jul-13	15	413.4	724.1	0.893	2673.4	4003.9	2200.6	983.5	2793.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	18-Jul-13	16	434.3	789.4	0.892	2626.2	4074.5	2204.5	1061.6	2788.9
2013	18-Jul-13	17	554.1	441.5	0.895	2663.9	3986.1	2191.2	859.6	2739.5
2013	18-Jul-13	18	348.3	539.2	0.895	2692	3933.2	2177.8	809.6	2771
2013	18-Jul-13	19	443.8	668.1	0.894	2705.1	3923	2174.2	871.9	2755.3
2013	18-Jul-13	20	655.5	834.4	0.836	2677	3932.8	2177.1	874.1	2776.3
2013	18-Jul-13	21	620.8	707.3	0.511	2645.9	3937.7	2319	809.7	2677.3
2013	18-Jul-13	22	520.6	711.9	0.305	2636	3963.1	2262.7	815.7	2496
2013	18-Jul-13	23	565.7	628.2	0.273	2502.5	3885.7	2258.8	778.8	2012.7
2013	19-Jul-13	0	691.1	753.7	0.009	2527.6	3884.4	1410.5	744.5	1916.2
2013	19-Jul-13	1	563.8	570.3		2145.5	3653.8	765.7	577	1590.7
2013	19-Jul-13	2	423.7	536.2		1255.3	3302.4	633	524.3	1157.5
2013	19-Jul-13	3	246.2	332.7	0.049	1007.5	2928	617.5	505.9	946.7
2013	19-Jul-13	4	276.2	256.1	0.052	977	2923.3	617.3	497	936
2013	19-Jul-13	5	392.6	321	0.062	1065.2	3363.2	625.5	520.5	1186.2
2013	19-Jul-13	6	651.7	577.2	0.238	1716.7	3558.3	610.8	623	1480.7
2013	19-Jul-13	7	698.7	558.3	0.39	2325.3	3704.1	735.7	470.169	1718.9
2013	19-Jul-13	8	661.4	660.2	0.621	2364.1	3712.3	630.3		1543.5
2013	19-Jul-13	9	634.3	553.2	0.852	2354.9	3711.8	629.4		1253.6
2013	19-Jul-13	10	462.8	733.7	0.902	2389.9	3705.3	638.8		1179.1
2013	19-Jul-13	11	573.6	614.8	0.884	2483.6	3713.2	617.5		1815
2013	19-Jul-13	12	741.1	783.8	0.891	2468.5	3732.5	606.9		1914.6
2013	19-Jul-13	13	789.2	681.9	0.894	2462.1	3712.5	1029.7		1976.5
2013	19-Jul-13	14	702.1	735.5	0.888	2522	3718.7	900.7		2025.2
2013	19-Jul-13	15	678.5	587.3	0.858	2611.5	3734.1	594.7		2278
2013	19-Jul-13	16	777.4	747.6	0.865	2597.3	3726.5	603.3		2362.8
2013	19-Jul-13	17	573	604.5	0.865	2445.4	3732.9	610.8		2346.6
2013	19-Jul-13	18	611.1	675.6	0.864	2477	3781.9	610		2481.9
2013	19-Jul-13	19	733.7	618.3	0.868	2485.7	3843.8	610		2797.9
2013	19-Jul-13	20	825.7	785.4	0.867	2458.9	3886.2	608		2777.7
2013	19-Jul-13	21	736.7	623.2	0.866	2245.9	3854.1	608.7		2530.6
2013	19-Jul-13	22	349.3	356.4	0.792	1789.3	3714.6	604		1941.8
2013	19-Jul-13	23	302.7	293.3	0.139	1604.3	3739.3	537.4		1857.6
2013	20-Jul-13	0	531.1	355		1654.8	3795.4	0.012		1894.2
2013	20-Jul-13	1	592.1	326.9		1004.6	3395		19.578	1386.2
2013	20-Jul-13	2	335.1	249.6		889	2860.3		53.3	1505.3
2013	20-Jul-13	3	266.3	168.7		896.5	2373.4		54.3	1293.6
2013	20-Jul-13	4	234.2	191.7		901.9	2393.6		62.4	1333.3
2013	20-Jul-13	5	259.2	152	0.031	902.1	2400.4		67.9	1337.8
2013	20-Jul-13	6	230.2	202.6	0.055	1034	2569.9		93.2	1580.5
2013	20-Jul-13	7	199.4	151.3	0.082	979.1	2939.3		126.9	1673.5
2013	20-Jul-13	8	158.2	179.8	0.247	1259.8	3420.6		198.3	1786.5
2013	20-Jul-13	9	208.7	145.1	0.232	1125	3488.3		323.1	1817.7
2013	20-Jul-13	10	119.3	154.3	0.264	1122.2	3739.1		476.2	1940.9
2013	20-Jul-13	11	236.3	408.7	0.251	1187.9	3888.5		597.9	2246.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	20-Jul-13	12	461.5	845.3	0.313	1307	4019.6		586.2	2375.2
2013	20-Jul-13	13	1236.5	1205.1	0.391	1817.9	4102.9		708.2	2637.5
2013	20-Jul-13	14	1382.4	1117.1	0.464	2335	4112.5		901.6	2504.3
2013	20-Jul-13	15	585.6	1179.3	0.612	2693.7	4153.2		984.6	2788.7
2013	20-Jul-13	16	580.8	997.7	0.551	2966.1	4148.7		952.7	2767.7
2013	20-Jul-13	17	627.8	741.1	0.352	3049.4	4170.8		879.8	2611.7
2013	20-Jul-13	18	526.7	855.9	0.291	3098.1	4173.3		802.9	2549.4
2013	20-Jul-13	19	520.5	780.5	0.286	3154	4171.9		843.2	2504.1
2013	20-Jul-13	20	579.7	822.9	0.265	3200	4159.6		750	2203.4
2013	20-Jul-13	21	381.3	634.8	0.264	3208	4029.4		579.3	1512
2013	20-Jul-13	22	192.3	267	0.265	3223.9	3709.8		513.6	910.3
2013	20-Jul-13	23	246.4	241	0.262	2818.5	3133.1		493	995.5
2013	21-Jul-13	0	267.2	206.6	0.262	2033.2	2916.9		483.6	857.5
2013	21-Jul-13	1	232.6	149.1	0.261	1430.2	2790.2		534.4	798.5
2013	21-Jul-13	2	218.8	166.6	0.261	1199.6	2641.7		508.6	717.2
2013	21-Jul-13	3	170.24	128.3	0.262	1161	2561		497.2	792.7
2013	21-Jul-13	4	4.14	131.3	0.261	1046.5	2507.8		487.3	1251.4
2013	21-Jul-13	5	13.5	118.7	0.262	1055.3	2463.1		518	1299
2013	21-Jul-13	6	13.3	150.4	0.26	1050.9	2517.3		505.5	1032
2013	21-Jul-13	7	33.6	127	0.258	1105.1	2623.6		566.6	1251.1
2013	21-Jul-13	8	23.3	54	0.259	1079.3	2948.7		521.3	1082.5
2013	21-Jul-13	9	16	57.3	0.262	1184.2	3403.8		527.2	1132.7
2013	21-Jul-13	10	44.8	74.4	0.371	1717.2	3818.5		556.5	1249
2013	21-Jul-13	11	136.7	149.5	0.486	2364.7	4089.6		569.7	1421
2013	21-Jul-13	12	292.8	499.4	0.428	2515.6	4147.3		640.9	2137.8
2013	21-Jul-13	13	559.7	985.7	0.314	2548.5	4120.4		659	2238.3
2013	21-Jul-13	14	742.4	608	0.302	2575.7	4119.2		732.3	2308.5
2013	21-Jul-13	15	813.7	609.5	0.301	2599.6	4074.7		740.4	2440.4
2013	21-Jul-13	16	1139.2	787	0.268	2634.8	4068.9		829.2	2612.6
2013	21-Jul-13	17	1192.4	724.3	0.273	2625.6	4010.1		859	2606.8
2013	21-Jul-13	18	1132.9	755.2	0.273	2640.6	3961.9		726.1	2439.3
2013	21-Jul-13	19	1026	610	0.265	2572.4	4002.5		754.4	2276.6
2013	21-Jul-13	20	1441.8	786.2	0.281	2629.6	4056.2		783.4	2217.4
2013	21-Jul-13	21	1166.2	585.7	0.259	2226.5	3651.1		611.8	1692.4
2013	21-Jul-13	22	563	303.1	0.257	1242.1	3297.6		479.9	1477.4
2013	21-Jul-13	23	481.2	149.6	0.257	1100.6	3181.1		534.1	1128.4
2013	22-Jul-13	0	308.8	103.5	0.258	989.2	2737.4		531.4	884.4
2013	22-Jul-13	1	336.3	141.4	0.257	966.4	2386.1		560.6	743.7
2013	22-Jul-13	2	215.7	170.9	0.257	955.8	2335.7		504.4	806.7
2013	22-Jul-13	3	222.2	125.7	0.256	949	2325.6		535	810
2013	22-Jul-13	4	255	178.2	0.254	946	2312.5		567.6	770.7
2013	22-Jul-13	5	271.7	106	0.254	941.9	2385.3		771.7	719.9
2013	22-Jul-13	6	260.4	113	0.253	958.2	2607.7		1089.5	1177.2
2013	22-Jul-13	7	192	74.6	0.254	1172.1	3109.6		1306.4	1573.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	22-Jul-13	8	132.9	59	0.254	1000.8	3153.5		1187.8	1625.9
2013	22-Jul-13	9	172.7	62	0.253	1103.8	3328.4		895.2	1750.4
2013	22-Jul-13	10	94.7	40.2	0.254	2069.5	3541.9		667.3	2117.6
2013	22-Jul-13	11	144.6	164.4	0.255	2505.4	3775.1		617.5	2087.1
2013	22-Jul-13	12	396.7	361.7	0.329	2495.1	3790.9		679.9	2266.7
2013	22-Jul-13	13	819.9	664.2	0.289	2510.6	3772.3		867.4	2294.5
2013	22-Jul-13	14	981	954.8	0.359	2548.8	3763.4		856.9	2497.4
2013	22-Jul-13	15	1175.2	1138.2	0.446	2564.9	3757.6		837	2447.2
2013	22-Jul-13	16	1217.5	815.4	0.48	2524.8	3739.6		786.8	2363.3
2013	22-Jul-13	17	1157	466.2	0.298	2405.8	3740.6		764.2	2180.7
2013	22-Jul-13	18	1236.9	650.9	0.268	2542.2	3717.4		904.2	2511.8
2013	22-Jul-13	19	1204.4	661.2	0.261	2504.3	3709.6		817.9	2432.2
2013	22-Jul-13	20	1185.5	664.2	0.293	2451.1	3681.6		785.3	2341.8
2013	22-Jul-13	21	1381	367.1	0.254	1924.3	3275.3		673.6	2025
2013	22-Jul-13	22	876.7	213.3	0.258	959.9	2776.5		569.1	1546.4
2013	22-Jul-13	23	411.4	136.4	0.255	867.7	2340		499.7	1420.3
2013	23-Jul-13	0	327.4	137.4	0.255	863.3	2230.5		715.9	1385.8
2013	23-Jul-13	1	255.9	91	0.255	851.8	2197		587.5	1562.7
2013	23-Jul-13	2	218.9	165.7	0.254	853.1	2195.8		574.9	1497.8
2013	23-Jul-13	3	227.8	139.8	0.254	856.7	2165.6		556.9	1483.4
2013	23-Jul-13	4	249.6	188.2	0.254	861.4	2165.5		526.4	1499.3
2013	23-Jul-13	5	307.3	136.2	0.254	845.5	2260.8		579.1	1692.9
2013	23-Jul-13	6	241.7	186.5	0.253	857.9	2188.1		1051.6	1691.3
2013	23-Jul-13	7	200.9	179	0.253	2015.3	2394.2		929.8	1564.3
2013	23-Jul-13	8	166	22.288	0.257	1978.5	2707.2		760.6	1776
2013	23-Jul-13	9	184.2	1.9	0.253	2421.6	3140		954.5	1998.9
2013	23-Jul-13	10	141.1	1.7	0.346	2437.6	3297.6		858.9	2432.3
2013	23-Jul-13	11	207.6	2.2	0.46	2224.4	3539.5		816	2608
2013	23-Jul-13	12	489.4	0	0.821	2227.2	3569.8		952.9	2709.6
2013	23-Jul-13	13	996.4	3.7	0.881	2206.4	3508.6		917.9	2767.7
2013	23-Jul-13	14	1256.6	2.5	0.879	2194.4	3440.2		940.7	2791.6
2013	23-Jul-13	15	1485	3.7	0.88	2151.4	3354.3		958.2	2770.5
2013	23-Jul-13	16	1398.9	1.2	0.803	2141	3327.3		804	2656.5
2013	23-Jul-13	17	878.4	0	0.619	2119.2	3325.5		794	2687.6
2013	23-Jul-13	18	673		0.324	1922.3	3299.4		851	2698.3
2013	23-Jul-13	19	650		0.253	2048.5	3248.5		716.9	2367
2013	23-Jul-13	20	614.7		0.247	1963.7	3158.2		698.2	2170
2013	23-Jul-13	21	473.7		0.24	1329.4	2840.6		668.7	1734.9
2013	23-Jul-13	22	359.9		0.238	795.4	2396.6		731	1510.6
2013	23-Jul-13	23	465.7		0.016	758.6	2028.2		603.5	1531.3
2013	24-Jul-13	0	359			740.6	1990.2		542.8	1517.8
2013	24-Jul-13	1	376			723.2	1970.4		538	1525
2013	24-Jul-13	2	261.6			710.8	1936.6		549.4	1551
2013	24-Jul-13	3	241.5			696.8	1908.1		556.2	1435.8

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	24-Jul-13	4	260			674.9	1900.9		799.7	1373.3
2013	24-Jul-13	5	250.3			685.9	1854.7		604.2	1451.1
2013	24-Jul-13	6	192.5			677.1	1852.5		723.5	1428.9
2013	24-Jul-13	7	169.5			1047.8	1822.9		921.3	1407
2013	24-Jul-13	8	145.1			1576.5	2000		777.5	1413.8
2013	24-Jul-13	9	185.5			1493.4	2153.4		764.6	1527.3
2013	24-Jul-13	10	92.8			1407.5	2562.7		792	1679.8
2013	24-Jul-13	11	111			1409.1	2962		870.3	2350.7
2013	24-Jul-13	12	153			1888.4	3193		903.6	2561.6
2013	24-Jul-13	13	234			2055.6	3310.2		971.8	2471.2
2013	24-Jul-13	14	369			2062.4	3323.4		1142.4	2479.5
2013	24-Jul-13	15	568			2060.9	3382.2		1165.6	2522.1
2013	24-Jul-13	16	939.5			2052.1	3454.4		1047.5	2445.6
2013	24-Jul-13	17	920.1			1918.1	3459.7		875.9	2328.5
2013	24-Jul-13	18	712.2			1719.1	3556		799.6	2315.8
2013	24-Jul-13	19	442.8			1272	3420.7		774	2293.2
2013	24-Jul-13	20	362.6			728.1	3193.1		820.5	2022
2013	24-Jul-13	21	260			610.4	2749.1		795	1562.3
2013	24-Jul-13	22	201			600.5	2220.8		572.5	1287.4
2013	24-Jul-13	23	196.1			264.452	2142.2		246.4	280.931
2013	25-Jul-13	0	195				2115.9		1.392	
2013	25-Jul-13	1	161.3				2118.1			
2013	25-Jul-13	2	138.3				2086.7			
2013	25-Jul-13	3	166.4				2079			
2013	25-Jul-13	4	188.2				2038.9			
2013	25-Jul-13	5	192.4				2012.7			
2013	25-Jul-13	6	178.7				2024.7			
2013	25-Jul-13	7	163.3				2025.1			
2013	25-Jul-13	8	129.6				2030.6			
2013	25-Jul-13	9	123.9				2054.1			
2013	25-Jul-13	10	93.7				2158.6			
2013	25-Jul-13	11	279				2421.6			
2013	25-Jul-13	12	944.1				2940			
2013	25-Jul-13	13	918.3				3376.2			
2013	25-Jul-13	14	996.6				3715.5			
2013	25-Jul-13	15	897.2				3782.8			
2013	25-Jul-13	16	878.9				3843.8			
2013	25-Jul-13	17	949.1				3779.9			
2013	25-Jul-13	18	896.9				3304.5			
2013	25-Jul-13	19	605.9				2732.9			
2013	25-Jul-13	20	430.2				2476			
2013	25-Jul-13	21	308.1				2300.7			
2013	25-Jul-13	22	232.3				2255.1			
2013	25-Jul-13	23	195.3				2271.6			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	26-Jul-13	0	233.1				2232.8			
2013	26-Jul-13	1	306.7				2201.7			
2013	26-Jul-13	2	194.4				2164.2			
2013	26-Jul-13	3	166.9				2130.2			
2013	26-Jul-13	4	171.2				2117.4			
2013	26-Jul-13	5	154.1				2073.8			
2013	26-Jul-13	6	135.6				2077			
2013	26-Jul-13	7	126.6				1995.6			
2013	26-Jul-13	8	115.1				2143.2			
2013	26-Jul-13	9	183				2569.6			
2013	26-Jul-13	10	117.1				2906.9			
2013	26-Jul-13	11	127.5				3050.4			
2013	26-Jul-13	12	148.3				3188.7			
2013	26-Jul-13	13	303.2				3384.9			
2013	26-Jul-13	14	422.4				3428.8			
2013	26-Jul-13	15	713.5				3394.6			
2013	26-Jul-13	16	1277.7				3396.1			
2013	26-Jul-13	17	1297.5				3331.4			
2013	26-Jul-13	18	1135				3125			
2013	26-Jul-13	19	1214.1				2761			
2013	26-Jul-13	20	1079.6				2645.8			
2013	26-Jul-13	21	473				2294.4			
2013	26-Jul-13	22	149.6				2015.8			
2013	26-Jul-13	23	289				2026.8			
2013	27-Jul-13	0	308.6				2111.8			
2013	27-Jul-13	1	318.5				2015.8			
2013	27-Jul-13	2	254.9				2018.4			
2013	27-Jul-13	3	195.2				2022.4			
2013	27-Jul-13	4	228.6				2044.8			
2013	27-Jul-13	5	284.3				2075.5			
2013	27-Jul-13	6	223.9				2092.8			
2013	27-Jul-13	7	204				2064.1			
2013	27-Jul-13	8	157.3				2249.3			
2013	27-Jul-13	9	131.4				2805.7			
2013	27-Jul-13	10	114.9				3154.3			
2013	27-Jul-13	11	135.6				3178.4			
2013	27-Jul-13	12	251.5				3283.5			
2013	27-Jul-13	13	569.6				3318.1			
2013	27-Jul-13	14	666.3				3428			
2013	27-Jul-13	15	417.3				3470.2			
2013	27-Jul-13	16	303.1				3432.3			
2013	27-Jul-13	17	235.6				3346.7			
2013	27-Jul-13	18	220.1				2981.7			
2013	27-Jul-13	19	422				2783.5			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Jul-13	20	503.3				2882.5			
2013	27-Jul-13	21	400.9				2523.5			
2013	27-Jul-13	22	248.3	0			2192.6			
2013	27-Jul-13	23	204.4	0			2083.9			
2013	28-Jul-13	0	160.3	0			2167.5			
2013	28-Jul-13	1	177.2	0			2107.1			
2013	28-Jul-13	2	130.3	1.7			2106.8			
2013	28-Jul-13	3	128.1	1.7			2088.7			
2013	28-Jul-13	4	133.9	0			2085.5			
2013	28-Jul-13	5	149.7	0			2094.9			
2013	28-Jul-13	6	135.5	0			2087.2			
2013	28-Jul-13	7	144.5	0			2056.1			
2013	28-Jul-13	8	133.2	3.4			2092.3			
2013	28-Jul-13	9	178.1	6.6			2199.9			
2013	28-Jul-13	10	121.8	0			2505.9			
2013	28-Jul-13	11	106.3	0			2734.6			
2013	28-Jul-13	12	140.4	0			2952.6			
2013	28-Jul-13	13	167.6	0			3291.2			
2013	28-Jul-13	14	222.9	0			3386.8			
2013	28-Jul-13	15	310.7	0			3338.4			
2013	28-Jul-13	16	696.2	0			3316			
2013	28-Jul-13	17	1003.7	0			3219			
2013	28-Jul-13	18	1040.6	0			3229.7			
2013	28-Jul-13	19	868.8	0			3233.8			
2013	28-Jul-13	20	978	0			3205.6			
2013	28-Jul-13	21	875.8	0			3053.9			
2013	28-Jul-13	22	642.4	0			2770.8			
2013	28-Jul-13	23	455.7	0			2354.2			
2013	29-Jul-13	0	378.5	0			1964.4			
2013	29-Jul-13	1	337.2	3.1			1902.4			
2013	29-Jul-13	2	260.4	1.5			1898.3			
2013	29-Jul-13	3	207.3	8.3			1878.6			
2013	29-Jul-13	4	232.8	12.2			1879			
2013	29-Jul-13	5	187.3	32.7			1886.4			
2013	29-Jul-13	6	152.9	64.9			1966.8			
2013	29-Jul-13	7	129.9	154.9			2019.1			
2013	29-Jul-13	8	104.3	157.4			2261.7			
2013	29-Jul-13	9	115	204.1			2594.6			
2013	29-Jul-13	10	82.4	222.9			2773.4			
2013	29-Jul-13	11	101.2	317.3			2920.8			
2013	29-Jul-13	12	173.2	409.6			3223.1			
2013	29-Jul-13	13	360.9	587.4			3259.8			
2013	29-Jul-13	14	429.3	287.5			3286.2			
2013	29-Jul-13	15	393.6	476.7			3273.7			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	29-Jul-13	16	596.7	607.7			3262			
2013	29-Jul-13	17	512.2	572.1			3199.6			
2013	29-Jul-13	18	366.8	317.8			3104			
2013	29-Jul-13	19	269.9	213.2			2860.2			
2013	29-Jul-13	20	270.8	204.2			2756.2			
2013	29-Jul-13	21	231.1	159			2322.8			
2013	29-Jul-13	22	194.3	170.5			2003.5			
2013	29-Jul-13	23	182.3	147.1			1987.6			
2013	30-Jul-13	0	181.9	152.9			2027.1			
2013	30-Jul-13	1	132.1	132.3			2040.6			
2013	30-Jul-13	2	107.2	114.6			2045			
2013	30-Jul-13	3	96.2	76.6			2030			
2013	30-Jul-13	4	101.5	68.8			2023.7			
2013	30-Jul-13	5	95.4	58.9			2030.8			
2013	30-Jul-13	6	96.7	49			2055.5			
2013	30-Jul-13	7	99.1	55.7			2036.3			
2013	30-Jul-13	8	85.6	35.1			2117.6			
2013	30-Jul-13	9	131.6	52.5			2290.5			
2013	30-Jul-13	10	97.2	19.8			2710.9			
2013	30-Jul-13	11	85.1	35.2			2760.3			
2013	30-Jul-13	12	90.2	40.7			2728.2			
2013	30-Jul-13	13	102	48.1			2716.5			
2013	30-Jul-13	14	104.3	50.3			2863.2			
2013	30-Jul-13	15	111.5	61.9			2979.6			
2013	30-Jul-13	16	101.4	59.1			2922.6			
2013	30-Jul-13	17	125.2	211.4			3024.1			
2013	30-Jul-13	18	117.4	344.5			2956.2			
2013	30-Jul-13	19	95.2	339.6			2716.1			
2013	30-Jul-13	20	96.6	403.7			2718.2			
2013	30-Jul-13	21	102.4	417.3			2300.5			
2013	30-Jul-13	22	119	417			2144.4			
2013	30-Jul-13	23	307.3	404.9			2115.7			
2013	31-Jul-13	0	318.1	411.7			2126			
2013	31-Jul-13	1	349.5	336			2117.6			
2013	31-Jul-13	2	318.1	301.8			2129.2			
2013	31-Jul-13	3	356.2	344.5			2169.5			
2013	31-Jul-13	4	385.1	372.1			2178.1			
2013	31-Jul-13	5	411.3	342.5			2176.3			
2013	31-Jul-13	6	384	303			2176.9			
2013	31-Jul-13	7	369.6	248.4			2131.1			
2013	31-Jul-13	8	345.7	276.1			2236.5			
2013	31-Jul-13	9	420.3	407.3			2474.4			
2013	31-Jul-13	10	461.2	471.1			2964.4			
2013	31-Jul-13	11	463.9	499.9			3015.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	31-Jul-13	12	415.6	428.5			2747			
2013	31-Jul-13	13	465.7	467			2698.9			
2013	31-Jul-13	14	476.1	479.5			2693			
2013	31-Jul-13	15	483.5	576.1			2714.6			
2013	31-Jul-13	16	439.4	555.8			2776.3			
2013	31-Jul-13	17	457.8	525.4			2609.9			
2013	31-Jul-13	18	471.9	462.8			2513.3			
2013	31-Jul-13	19	473.8	489.8			2658			
2013	31-Jul-13	20	507.4	529.5			2879.2			
2013	31-Jul-13	21	472.5	410.5			2416.1			
2013	31-Jul-13	22	475.9	376.9			2141.3			
2013	31-Jul-13	23	440.4	444.1			2122.9			
2013	1-Aug-13	0	496.3	445.1			2140.3			
2013	1-Aug-13	1	562.1	488.6			2119.7			
2013	1-Aug-13	2	516.9	505.8			2121			
2013	1-Aug-13	3	511.4	587.6			2116.5			
2013	1-Aug-13	4	567.1	592.9			2120.7			
2013	1-Aug-13	5	496.5	495.2			2130			
2013	1-Aug-13	6	163.9	197.4			2140			
2013	1-Aug-13	7	134.4	138.6			2120.4			
2013	1-Aug-13	8	104.8	68.3			2213.5			
2013	1-Aug-13	9	141.2	76.9			2371.4			
2013	1-Aug-13	10	86.3	30.1			2383.7			
2013	1-Aug-13	11	86.5	56			2360.8			
2013	1-Aug-13	12	106.7	52.9			2455.1			
2013	1-Aug-13	13	128	80			2514.6			
2013	1-Aug-13	14	107.7	67.1			2416.8			
2013	1-Aug-13	15	112	106.5			2586.9			
2013	1-Aug-13	16	221.6	144.4			3084.1			
2013	1-Aug-13	17	356.7	253.1			3411.2			
2013	1-Aug-13	18	306.4	182.3			3540.1			
2013	1-Aug-13	19	317.2	190			3553.3			
2013	1-Aug-13	20	272.8	110.7			3498.9			
2013	1-Aug-13	21	203.4	436.4			3314.3			
2013	1-Aug-13	22	265.2	547.2			3042.2			
2013	1-Aug-13	23	428.8	517.8			2738.6			
2013	2-Aug-13	0	446.1	202.1			2426.6			
2013	2-Aug-13	1	507.6	210.4			2135.7			
2013	2-Aug-13	2	237.4	175.7			2086.7			
2013	2-Aug-13	3	131.1	196			2070.1			
2013	2-Aug-13	4	140.3	187.5			2050.6			
2013	2-Aug-13	5	166.3	209.3			2034.3			
2013	2-Aug-13	6	113.4	182.7			2037			
2013	2-Aug-13	7	113.4	162.6			2037.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	2-Aug-13	8	100.6	128.3			2222.6			
2013	2-Aug-13	9	104.7	116.4			2698.2			
2013	2-Aug-13	10	90.4	185.4			3060.7			
2013	2-Aug-13	11	289	484.4			3038.8			
2013	2-Aug-13	12	1039.4	908.3			3116.5			
2013	2-Aug-13	13	698.4	1366.3			3338.7			
2013	2-Aug-13	14	524.4	477.3			3375.8			
2013	2-Aug-13	15	531.9	576.4			3373.1			
2013	2-Aug-13	16	568.1	456.4			3358.3			
2013	2-Aug-13	17	595.2	614.5			3345.4			
2013	2-Aug-13	18	361.2	480.6			3343.3			
2013	2-Aug-13	19	272.1	504.6			3288.2			
2013	2-Aug-13	20	211.3	311.9			3281.4			
2013	2-Aug-13	21	156.4	323.1			3057.2			
2013	2-Aug-13	22	105.6	129.2			2540.9			
2013	2-Aug-13	23	255.8	257.3			2155.4			
2013	3-Aug-13	0	255	252.1			1972.1			
2013	3-Aug-13	1	270.8	218.7			1984.8			
2013	3-Aug-13	2	195.6	171.6			1980.8			
2013	3-Aug-13	3	142.3	138.2			1962.8			
2013	3-Aug-13	4	158.1	116.3			1943.3			
2013	3-Aug-13	5	156.8	142			1945.4			
2013	3-Aug-13	6	177.2	163.5			1946.1			
2013	3-Aug-13	7	108.9	150.3			1878.4			
2013	3-Aug-13	8	113.9	51.5			1902.9			
2013	3-Aug-13	9	132.1	53.7			1960			
2013	3-Aug-13	10	160.7	63			2069.6			
2013	3-Aug-13	11	182.4	65.1			2068.4			
2013	3-Aug-13	12	215.5	83.3			2159.8			
2013	3-Aug-13	13	223.3	59.8			2071.8			
2013	3-Aug-13	14	209.1	79.7			2039.8			
2013	3-Aug-13	15	205.1	71.5			2109.2			
2013	3-Aug-13	16	206.2	85.8			2043.8			
2013	3-Aug-13	17	217.2	68.9			2082.2			
2013	3-Aug-13	18	200.5	108.9			2070.7			
2013	3-Aug-13	19	190	96.1			2045.5			
2013	3-Aug-13	20	205.4	87.5			2096.8			
2013	3-Aug-13	21	232.2	95.4			1980.1			
2013	3-Aug-13	22	225	118.2			1962.5			
2013	3-Aug-13	23	218.4	108.4			1949.4			
2013	4-Aug-13	0	180.9	149.3			1964.4			
2013	4-Aug-13	1	223.5	164.3			1956			
2013	4-Aug-13	2	219.5	223.7			1944.6			
2013	4-Aug-13	3	248.9	201.9			1951.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	4-Aug-13	4	315.9	271.1			1958.3			
2013	4-Aug-13	5	391.3	297.7			1972			
2013	4-Aug-13	6	360.1	337.1			1984.5			
2013	4-Aug-13	7	311.1	252.2			1941.2			
2013	4-Aug-13	8	326.7	119.9			1962.9			
2013	4-Aug-13	9	340.1	197.8			1978.1			
2013	4-Aug-13	10	339.3	239.7			2002.5			
2013	4-Aug-13	11	373.6	276.1			2014.1			
2013	4-Aug-13	12	396.8	381.9			2076.9			
2013	4-Aug-13	13	435	343.9			2086.9			
2013	4-Aug-13	14	432.9	384.7			2137.7			
2013	4-Aug-13	15	440.9	344.9			2267.5			
2013	4-Aug-13	16	439.6	341.6			2330			
2013	4-Aug-13	17	445.7	323.8			2317.4			
2013	4-Aug-13	18	423.6	372.7			2195.2			
2013	4-Aug-13	19	426.5	357			2060.2			
2013	4-Aug-13	20	424	379.4			2067.9			
2013	4-Aug-13	21	459	343.1			2043.5			
2013	4-Aug-13	22	420.8	376.3			2039.5			
2013	4-Aug-13	23	410.6	346.2			2014.9			
2013	5-Aug-13	0	444.9	369.1			2000.8			
2013	5-Aug-13	1	493.2	365.7			2003.9			
2013	5-Aug-13	2	477.1	388.3			2011.3			
2013	5-Aug-13	3	461.4	348.4			2010.2			
2013	5-Aug-13	4	459.2	353.1			2016.4			
2013	5-Aug-13	5	463.8	313.8			2006.7			
2013	5-Aug-13	6	395.5	305.6			2009.8			
2013	5-Aug-13	7	300.2	189			1966.4			
2013	5-Aug-13	8	241.3	53			2029.4			
2013	5-Aug-13	9	263.5	51.3			2157.2			
2013	5-Aug-13	10	256.4	37.7			2384.2			
2013	5-Aug-13	11	337.7	159.3			2822.5			
2013	5-Aug-13	12	416.1	220.3			2942.9			
2013	5-Aug-13	13	331.4	155.5			2817.9			
2013	5-Aug-13	14	323.8	179.3			2996.9			
2013	5-Aug-13	15	308.3	335.7			3130.4			
2013	5-Aug-13	16	263.9	296.4			2945.7			
2013	5-Aug-13	17	287.6	245.7			2602.3			
2013	5-Aug-13	18	257.1	201			2244.2			
2013	5-Aug-13	19	238	198.4			2429.8			
2013	5-Aug-13	20	250.8	193.2			2675.5			
2013	5-Aug-13	21	261.7	164.7			2178.8			
2013	5-Aug-13	22	236.8	161.1			2014.8			
2013	5-Aug-13	23	199.5	114			2029.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	6-Aug-13	0	210.5	106.9			2063.9			
2013	6-Aug-13	1	247.8	123.6			2065.2			
2013	6-Aug-13	2	236.9	136			2056.9			
2013	6-Aug-13	3	216.2	130.9			2101.2			
2013	6-Aug-13	4	196.8	122.7			2128.8			
2013	6-Aug-13	5	204.9	109.9			2143			
2013	6-Aug-13	6	261.8	77.6			2141			
2013	6-Aug-13	7	146.4	36.6			2082.6			
2013	6-Aug-13	8	144.8	19.3			2243.1			
2013	6-Aug-13	9	166.4	23.2			2614.9			
2013	6-Aug-13	10	160.4	21.3			2904			
2013	6-Aug-13	11	174.4	53.4			2948.2			
2013	6-Aug-13	12	194.3	42.3			2834.7			
2013	6-Aug-13	13	201.6	67.1			2752.5			
2013	6-Aug-13	14	213.3	65.8			2638.4			
2013	6-Aug-13	15	175.3	81.8			2871.2			
2013	6-Aug-13	16	228.9	77.8			3083			
2013	6-Aug-13	17	196.4	114.6			3064.8			
2013	6-Aug-13	18	159.5	104.2			2978.4			
2013	6-Aug-13	19	140.9	133.6			2733.1			
2013	6-Aug-13	20	150.9	124.9			2738.7			
2013	6-Aug-13	21	148.2	107.5			2718.2			
2013	6-Aug-13	22	152.2	93.1			2741			
2013	6-Aug-13	23	188.3	121.5			2754.2			
2013	7-Aug-13	0	194.1	126.7			2777.2			
2013	7-Aug-13	1	215.5	150.3			2794.6			
2013	7-Aug-13	2	255.7	156.1			2795.2			
2013	7-Aug-13	3	301.3	173			2822.4			
2013	7-Aug-13	4	314.6	193.4			2869			
2013	7-Aug-13	5	340	222.9			2819.4			
2013	7-Aug-13	6	357.4	231.5			2515.1			
2013	7-Aug-13	7	337.4	160.1			2395.3			
2013	7-Aug-13	8	418.7	60.3			2480.4			
2013	7-Aug-13	9	292.5	93.5			2780.5			
2013	7-Aug-13	10	260	123.1			3103.1			
2013	7-Aug-13	11	283.6	218.7			3304.5			
2013	7-Aug-13	12	310.7	247.8			3392.7			
2013	7-Aug-13	13	454.4	586.3			3514			
2013	7-Aug-13	14	686.4	764.2			3673.7			
2013	7-Aug-13	15	929	722.5			3655.9			
2013	7-Aug-13	16	919.5	882.1			3787			
2013	7-Aug-13	17	810.6	1110			3793.6			
2013	7-Aug-13	18	664.2	895.4			3699.1			
2013	7-Aug-13	19	634.2	1066.2			3694.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	7-Aug-13	20	595.1	760.4			3615.7			
2013	7-Aug-13	21	481.9	655.7			3383.5			
2013	7-Aug-13	22	376.3	463.5			2930.4			
2013	7-Aug-13	23	302.8	747.1			2487			
2013	8-Aug-13	0	427.1	446.2			2289.2			
2013	8-Aug-13	1	278.3	459.4			2283.9			
2013	8-Aug-13	2	218.7	224.1			2263.1			
2013	8-Aug-13	3	222.8	259.7			2238.6			
2013	8-Aug-13	4	220.7	195.6			2206.9			
2013	8-Aug-13	5	220.2	179.8			2245.9			
2013	8-Aug-13	6	216.7	128.2			2222			
2013	8-Aug-13	7	240.6	113.1			2445.3			
2013	8-Aug-13	8	278.9	172.4			2871.7			
2013	8-Aug-13	9	343.7	253.4			3239.5			
2013	8-Aug-13	10	315.3	313.4			3437.6			
2013	8-Aug-13	11	424.6	540.7			3478.7			
2013	8-Aug-13	12	658.5	401.7			3177.4			
2013	8-Aug-13	13	975.3	675.1			3405.1			
2013	8-Aug-13	14	1084.2	909.7			3587.6			2.7
2013	8-Aug-13	15	926.1	1226.8		0	3601.1			2.2
2013	8-Aug-13	16	1070.1	776.9		0	3614.2			1.7
2013	8-Aug-13	17	1145.4	684.7		7.7	3594.3			4.1
2013	8-Aug-13	18	1093.3	501.2		3.9	3583			1.7
2013	8-Aug-13	19	1155	620.5		0	3553.4			1.7
2013	8-Aug-13	20	1177.8	488.5		0	3605.6			1.7
2013	8-Aug-13	21	726.3	407.6		0	3441.9			1.7
2013	8-Aug-13	22	325.4	245		0	3117.1			1.7
2013	8-Aug-13	23	241	229.9		0	2666.3			1.5
2013	9-Aug-13	0	276.9	130.9		0	2292.3			1.5
2013	9-Aug-13	1	332.1	198.2		0	2173			54.4
2013	9-Aug-13	2	360.7	164		0	2140.2			305.2
2013	9-Aug-13	3	466.4	226.6		0	2132.2			769.5
2013	9-Aug-13	4	529.8	171.7		0	2145.1			1350.2
2013	9-Aug-13	5	510.5	256.7		0	2366			1389.1
2013	9-Aug-13	6	384.4	199.8		258	2405			1676.8
2013	9-Aug-13	7	389.5	233.5		734.6	2921.4			2008.6
2013	9-Aug-13	8	444.8	565.7		921.3	3305.2			1949.7
2013	9-Aug-13	9	492.6	940.5		1407.9	3506.8			1809.2
2013	9-Aug-13	10	724	1082.7		1642.7	3463.5			1863.8
2013	9-Aug-13	11	1002.2	1090.3		2162.2	3466			2015
2013	9-Aug-13	12	1111	1288.6		2261.4	3469.7			1979.1
2013	9-Aug-13	13	1181.7	1277.4		2251.6	3463.5			2149.8
2013	9-Aug-13	14	942.1	1187.5		1923	3478.3			2157.7
2013	9-Aug-13	15	1040.8	939.8		1784.9	3458.1			2050.4

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	9-Aug-13	16	1027.6	1235.1		1794.9	3486.4			1677.9
2013	9-Aug-13	17	1034.6	941.3		1813.6	3481.2			1780.2
2013	9-Aug-13	18	621	934.2		1838.9	3465.8			2124.1
2013	9-Aug-13	19	990.2	958.7		1856.6	3453.3			2283.9
2013	9-Aug-13	20	1074.8	990.2		1841.8	3441.4			2232.8
2013	9-Aug-13	21	772.9	732.6		1671.7	3350			2015.7
2013	9-Aug-13	22	466.5	380.1		1337.9	3225.3			1840.7
2013	9-Aug-13	23	497.8	622.5		1327.1	3230.4			2107.2
2013	10-Aug-13	0	464	334.6		1016.4	3203.8			1929.6
2013	10-Aug-13	1	332	292.2		916.9	2699			1623
2013	10-Aug-13	2	232.7	124.5		899.9	2205.1			1539.7
2013	10-Aug-13	3	172.2	108.2		893.3	2086.7			1550.9
2013	10-Aug-13	4	172.4	102.8		879.3	2052.3			1547.5
2013	10-Aug-13	5	169	85.6		874.4	2062			1502
2013	10-Aug-13	6	137.3	98.6		868	2062.1			1412.8
2013	10-Aug-13	7	126.8	101.4		983.9	2329.3			1566.9
2013	10-Aug-13	8	72.1	56.8		901.5	2392.1			1505.2
2013	10-Aug-13	9	54.7	43.3		937.6	2829.9			1566.9
2013	10-Aug-13	10	59.3	30.3		944.7	3028			1780
2013	10-Aug-13	11	64	29.7		812.8	2949.9			1405.2
2013	10-Aug-13	12	94.4	35.3		768	2998.3			1351.4
2013	10-Aug-13	13	104.6	31.1		771.6	3044.9			1551.1
2013	10-Aug-13	14	100.6	37.6		771.7	3056.2			1532.7
2013	10-Aug-13	15	118.1	64.7		821.8	3183.2			1773.7
2013	10-Aug-13	16	200.6	83.6		1067.5	3355.7			2179.3
2013	10-Aug-13	17	231.2	160.8		1180.8	3304.3			2061.2
2013	10-Aug-13	18	190.6	123.7		813.1	3182.2			1652.2
2013	10-Aug-13	19	137.2	356.3		769.1	3108			1446
2013	10-Aug-13	20	129.1	339.4		747	3039.8			1281.1
2013	10-Aug-13	21	162.6	309.9		718.3	2708.7			1161.8
2013	10-Aug-13	22	245.7	329.8		721.2	2414.3			1157.6
2013	10-Aug-13	23	271	192.9		727.5	2221.8			1174.2
2013	11-Aug-13	0	284.6	243.7		724.9	2087.5			1182.1
2013	11-Aug-13	1	295.5	136.6		726.1	2065.8			1183.4
2013	11-Aug-13	2	255.2	120.6		724.7	2064.1			1203.6
2013	11-Aug-13	3	244.4	92.2		730	2069			1167.5
2013	11-Aug-13	4	259.9	52.9		740.5	2065.3			1160.9
2013	11-Aug-13	5	265.5	61.9		739.4	2077.1			1144.6
2013	11-Aug-13	6	237.6	42		742.7	2079.9			1117.3
2013	11-Aug-13	7	218	76.8		758.1	2064.2			1122.6
2013	11-Aug-13	8	208.5	22.1		757.2	2060.1			1161.8
2013	11-Aug-13	9	347.7	44.7		812.1	2571.4			1325.5
2013	11-Aug-13	10	765.2	409.4		1534.7	3223.7			1784.5
2013	11-Aug-13	11	852.8	869.5		1661.4	3318.4			1895.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	11-Aug-13	12	783.4	638.3		1289.7	3188.6			1636
2013	11-Aug-13	13	794.6	729.3		996.1	3236.2			1743.3
2013	11-Aug-13	14	957.3	838.8		897.7	3350.6			1802
2013	11-Aug-13	15	1075.6	874.4		1403.4	3475.3			2134
2013	11-Aug-13	16	1087.7	807.4		1798.5	3474.5			2005.8
2013	11-Aug-13	17	1060.1	769.9		1797.6	3452.7			1950.1
2013	11-Aug-13	18	746.4	871.5		1678.4	3452			1881.7
2013	11-Aug-13	19	596.7	659.5		1439.2	3436.9			1859.3
2013	11-Aug-13	20	624.1	489.2		1612.1	3431.6			1703.1
2013	11-Aug-13	21	405.1	413.7		986.3	3191			1381.7
2013	11-Aug-13	22	211.1	218.4		725.4	2801.8			1177.7
2013	11-Aug-13	23	150.9	160.2	0.053	713.1	2419.1			1132.2
2013	12-Aug-13	0	281	182.5	0.065	713.2	2144.4			1119.8
2013	12-Aug-13	1	328.3	232	0.065	710.9	2100.8			1091.7
2013	12-Aug-13	2	304	279.5	0.065	710.7	2089.2			1087.4
2013	12-Aug-13	3	273.8	227.8	0.065	712.9	2095.2			1074.3
2013	12-Aug-13	4	311.3	260.4	0.065	717.1	2196.9			1043.4
2013	12-Aug-13	5	289.2	178.7	0.065	787.9	2337.3			1193.3
2013	12-Aug-13	6	249.1	197.4	0.065	829.3	2407.7			1370.6
2013	12-Aug-13	7	281	259.6	0.065	1007	2895.3			1554.7
2013	12-Aug-13	8	280.4	98.9	0.084	1187.4	3246.7			1704.1
2013	12-Aug-13	9	388.1	55.7	0.16	1484.8	3405.5			1834.2
2013	12-Aug-13	10	454.7	72.5	0.276	1058.3	3409.9			1964.3
2013	12-Aug-13	11	644.7	82.8	0.423	983.2	3446.4			2056.5
2013	12-Aug-13	12	782.3	177.2	0.324	1563.7	3456.4			2115.9
2013	12-Aug-13	13	1045.2	533.2	0.305	1805.1	3446.3			2108
2013	12-Aug-13	14	1019.9	862.5	0.594	1843.7	3453.3			2096
2013	12-Aug-13	15	1013	760.6	0.783	1797.6	3470.7			2069.9
2013	12-Aug-13	16	1163.9	887.8	0.783	1787.1	3468.4			2120.7
2013	12-Aug-13	17	779.2	905.3	0.664	1773.8	3462.8			2118.6
2013	12-Aug-13	18	522.1	679.4	0.253	1758	3466			2149.9
2013	12-Aug-13	19	505.1	561.3		1752.8	3480.9			2155.1
2013	12-Aug-13	20	471.5	463		1739.7	3445.7			2138.5
2013	12-Aug-13	21	348.3	326.7		1435.5	3316.5			1858.9
2013	12-Aug-13	22	278	294.1		896.9	3000			1460.3
2013	12-Aug-13	23	210.7	234		768.2	2691.5			1147.3
2013	13-Aug-13	0	286.1	244.7		758	2475.4			1130.2
2013	13-Aug-13	1	289	198		748.5	2276.6			1129.9
2013	13-Aug-13	2	214.8	154.3		745.9	2076.5			1143.7
2013	13-Aug-13	3	145.3	123.7		740.4	2048.4			1139
2013	13-Aug-13	4	167.5	107.2		736.8	2198.1			1050.7
2013	13-Aug-13	5	184.8	138.7		759.2	2497.3			1038
2013	13-Aug-13	6	174.7	156		728.6	2610.5			973.1
2013	13-Aug-13	7	154.1	145.5		838	2747.5			712.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	13-Aug-13	8	199.6	128.6		772	2951.7			930.1
2013	13-Aug-13	9	113.6	101.5		753.6	3093.1			990.5
2013	13-Aug-13	10	168	193.5		747.3	3143.4			1110.5
2013	13-Aug-13	11	206.4	230.1		823.9	3164.3			1165.1
2013	13-Aug-13	12	321.2	411.3		1070.6	3359			1287.6
2013	13-Aug-13	13	595.9	604.4		1572.1	3385.3			1462.1
2013	13-Aug-13	14	987	901.3		1718.9	3382.9			1814.2
2013	13-Aug-13	15	1145	618.5		1725.5	3368.5			2115.1
2013	13-Aug-13	16	1019.7	895.3		1758.3	3389.4			2102.9
2013	13-Aug-13	17	1101.6	697.9		1752.5	3417.9			2094
2013	13-Aug-13	18	913.2	1036.5		1697.2	3395.2			1903.5
2013	13-Aug-13	19	1107.8	1111.5		1759.9	3390.1			1854.4
2013	13-Aug-13	20	1070	1026.2		1671.7	3317.1			2057.4
2013	13-Aug-13	21	970.4	765.7		1551.1	3110.9			1659
2013	13-Aug-13	22	625.7	430.2		1188.9	2700.2			997.84
2013	13-Aug-13	23	634.2	254.7		122.7	2084.4			
2013	14-Aug-13	0	624.8	291.8		0	382.342			
2013	14-Aug-13	1	533.2	478		0				
2013	14-Aug-13	2	512.4	404.7		0				
2013	14-Aug-13	3	410	332		0				
2013	14-Aug-13	4	382.9	219.4		0				
2013	14-Aug-13	5	310	201.3		0				
2013	14-Aug-13	6	273.4	192.4		0				
2013	14-Aug-13	7	246.3	222.9		15				
2013	14-Aug-13	8	238	111.4		1.8				
2013	14-Aug-13	9	326.1	125.1		0				
2013	14-Aug-13	10	333.2	193		0				
2013	14-Aug-13	11	362.8	176.2		0				
2013	14-Aug-13	12	357.9	263.8		0				
2013	14-Aug-13	13	430.8	209.9		0				
2013	14-Aug-13	14	442.8	296						
2013	14-Aug-13	15	417	220.9						
2013	14-Aug-13	16	362.8	261.6						
2013	14-Aug-13	17	383.2	197.4						
2013	14-Aug-13	18	378.1	210.4						
2013	14-Aug-13	19	345.3	123						
2013	14-Aug-13	20	259.9	168.9						
2013	14-Aug-13	21	241.6	116.7						
2013	14-Aug-13	22	285	181.7						
2013	14-Aug-13	23	288.9	142.7						
2013	15-Aug-13	0	286.3	187.8						
2013	15-Aug-13	1	329	129.1						
2013	15-Aug-13	2	299.6	180.8						
2013	15-Aug-13	3	250.5	153.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	15-Aug-13	4	191.9	154.4						
2013	15-Aug-13	5	179.3	133.9						
2013	15-Aug-13	6	200.8	217.2						
2013	15-Aug-13	7	195.9	153.2						
2013	15-Aug-13	8	224.3	178.6						
2013	15-Aug-13	9	112.3	150.7						
2013	15-Aug-13	10	180.9	226.9						
2013	15-Aug-13	11	201.4	225.9						
2013	15-Aug-13	12	217.2	277.3						
2013	15-Aug-13	13	308.5	251.1						
2013	15-Aug-13	14	328.6	292.9						
2013	15-Aug-13	15	312.1	268.8						
2013	15-Aug-13	16	255.6	310.3						
2013	15-Aug-13	17	315.5	277.3						
2013	15-Aug-13	18	310.9	316.7						
2013	15-Aug-13	19	294.2	285.1						
2013	15-Aug-13	20	235.2	311.2						
2013	15-Aug-13	21	237.4	279.3						
2013	15-Aug-13	22	190.2	258.3						
2013	15-Aug-13	23	162.3	185.7						
2013	16-Aug-13	0	151.8	195.2						
2013	16-Aug-13	1	200.8	147.7						
2013	16-Aug-13	2	239.8	180.4						
2013	16-Aug-13	3	218.3	175.2						
2013	16-Aug-13	4	206.4	192						
2013	16-Aug-13	5	209.2	172.5						
2013	16-Aug-13	6	220.9	219.4						
2013	16-Aug-13	7	188.3	229.8						
2013	16-Aug-13	8	117.9	192.6						
2013	16-Aug-13	9	153	102.9						
2013	16-Aug-13	10	203.7	164						
2013	16-Aug-13	11	228.7	182.8						
2013	16-Aug-13	12	197.9	225.6						
2013	16-Aug-13	13	177.2	140.4						
2013	16-Aug-13	14	190	160						
2013	16-Aug-13	15	184.7	141.5						
2013	16-Aug-13	16	170.9	181.3						
2013	16-Aug-13	17	194.4	138.5						
2013	16-Aug-13	18	195.6	150.1						
2013	16-Aug-13	19	176.2	119.1						
2013	16-Aug-13	20	61.7	54.5						
2013	16-Aug-13	21	40.8	27.9						
2013	16-Aug-13	22	131	77.7						
2013	16-Aug-13	23	154.3	76.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	17-Aug-13	0	133.8	88						
2013	17-Aug-13	1	173.7	75.7						
2013	17-Aug-13	2	173.7	88.6						
2013	17-Aug-13	3	168.4	80.5						
2013	17-Aug-13	4	175.3	86.5						
2013	17-Aug-13	5	170.9	72.7						
2013	17-Aug-13	6	172.4	84.7						
2013	17-Aug-13	7	132.9	72.5						
2013	17-Aug-13	8	140.5	81.3						
2013	17-Aug-13	9	54	58						
2013	17-Aug-13	10	65.3	72.1						
2013	17-Aug-13	11	86.8	63.7						
2013	17-Aug-13	12	107.3	76.4						
2013	17-Aug-13	13	111.4	67.8						
2013	17-Aug-13	14	132.4	81.8						
2013	17-Aug-13	15	138.8	84.6						
2013	17-Aug-13	16	135	124.3						
2013	17-Aug-13	17	175.6	137.9						
2013	17-Aug-13	18	198.9	141.3						
2013	17-Aug-13	19	189.3	129.7						
2013	17-Aug-13	20	139.5	119.9						
2013	17-Aug-13	21	184.1	93.7						
2013	17-Aug-13	22	166.1	102.1						
2013	17-Aug-13	23	153.6	83						
2013	18-Aug-13	0	181.2	90.8						
2013	18-Aug-13	1	202.9	78.7						
2013	18-Aug-13	2	159.2	90.8						
2013	18-Aug-13	3	153.8	77.2						
2013	18-Aug-13	4	148.7	86.8						
2013	18-Aug-13	5	132.6	74.1						
2013	18-Aug-13	6	131.8	82.5						
2013	18-Aug-13	7	120.8	73.1						
2013	18-Aug-13	8	98.8	108.1						
2013	18-Aug-13	9	103.3	39.3						
2013	18-Aug-13	10	132.3	57						
2013	18-Aug-13	11	152.2	65.2						1.584
2013	18-Aug-13	12	178.6	110.8						1.5
2013	18-Aug-13	13	193.7	136.1						3.1
2013	18-Aug-13	14	159.3	164.2						1.7
2013	18-Aug-13	15	143.8	140.1						1.7
2013	18-Aug-13	16	149.5	135.2						1.6
2013	18-Aug-13	17	173.6	94.9						1.4
2013	18-Aug-13	18	192.1	102.2						1.4
2013	18-Aug-13	19	215.5	88						1.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	18-Aug-13	20	235.1	109.5						12.8
2013	18-Aug-13	21	249.6	89.7						77.1
2013	18-Aug-13	22	232.2	95						187.1
2013	18-Aug-13	23	199.5	73.1						376.8
2013	19-Aug-13	0	169.7	89.2						421.7
2013	19-Aug-13	1	196.5	73.8						536.3
2013	19-Aug-13	2	191	82.1						715.6
2013	19-Aug-13	3	142.6	62.9						1153.6
2013	19-Aug-13	4	176.9	77.8						1198.6
2013	19-Aug-13	5	160.3	62.7						1328.3
2013	19-Aug-13	6	122.7	71.7						2018
2013	19-Aug-13	7	110.5	55.4						2281.7
2013	19-Aug-13	8	135.1	50						2384.5
2013	19-Aug-13	9	52.7	35.1						2404.5
2013	19-Aug-13	10	106.9	70.5						2435.5
2013	19-Aug-13	11	177.7	121.4						2438.1
2013	19-Aug-13	12	206.4	268.1						2415.2
2013	19-Aug-13	13	292.7	386.7						2438.9
2013	19-Aug-13	14	321.6	498.5						2474.6
2013	19-Aug-13	15	362	326.9						2435.1
2013	19-Aug-13	16	544.3	272.9	0.01					2458.9
2013	19-Aug-13	17	926.2	321.3	0.065					2531.1
2013	19-Aug-13	18	960.5	532.3	0.065					2570.7
2013	19-Aug-13	19	817.7	763.8	0.067					2537.1
2013	19-Aug-13	20	823.6	615.4	0.077		0			2528.5
2013	19-Aug-13	21	526	385.3	0.077		0			2139.3
2013	19-Aug-13	22	336.1	215	0.075		292.3			1647.9
2013	19-Aug-13	23	376.1	177.9	0.065		431			1503.5
2013	20-Aug-13	0	346	132.9	0.065		486.6			1479
2013	20-Aug-13	1	288.4	146.2	0.064		690.1			1457.2
2013	20-Aug-13	2	214.5	95.7	0.051		1342.9			1447
2013	20-Aug-13	3	176.1	111	0.037		1919.9			1429.6
2013	20-Aug-13	4	219	77.8	0.05		2072.8			1382.7
2013	20-Aug-13	5	241.2	106.4	0.051		2389.5			1266.2
2013	20-Aug-13	6	201.4	101.3	0.051		2869.6			1718.7
2013	20-Aug-13	7	210.1	131.5	0.051		2924.8			1751.2
2013	20-Aug-13	8	167	80.1	0.051		2669.1			1607.6
2013	20-Aug-13	9	197	70.2	0.061		2736.2			1711.6
2013	20-Aug-13	10	257.9	130.3	0.087		3188.7			1983.1
2013	20-Aug-13	11	213.8	125.1	0.212		3252.1			2309
2013	20-Aug-13	12	213.8	227.7	0.266		3345.7			2278.1
2013	20-Aug-13	13	273.8	225.9	0.243		3465.2			2079.3
2013	20-Aug-13	14	382.2	336.7	0.237		3490.6			1523.7
2013	20-Aug-13	15	675.6	344.7	0.391		3658.8			1385.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	20-Aug-13	16	726.7	690.6	0.317		3683.8			1363.5
2013	20-Aug-13	17	713.5	640.3	0.258		3722.3			1360
2013	20-Aug-13	18	683.5	681.8	0.016		3630.6			1363
2013	20-Aug-13	19	730.8	794.5			3726.1			1345.9
2013	20-Aug-13	20	819.6	841.1		0	3732.1			1351.9
2013	20-Aug-13	21	612.1	563.7		5.5	3562.6			1429.7
2013	20-Aug-13	22	371.7	434.5		1.4	3300.5			1355.7
2013	20-Aug-13	23	429.2	219		0	2900.1			1331.8
2013	21-Aug-13	0	367.4	215.8		0	2580			1299.1
2013	21-Aug-13	1	308.4	175.9		0	2276.6			1335.4
2013	21-Aug-13	2	183.2	145.9		0	2167.8			1357.3
2013	21-Aug-13	3	135.6	103.6	0.009	0	2160.5			1328.6
2013	21-Aug-13	4	156.8	84.2	0.063	0	2123.1			1311.9
2013	21-Aug-13	5	159.2	87	0.064	0	2105.9			1257.4
2013	21-Aug-13	6	163.6	81.4	0.068	0	2251.4			1243.5
2013	21-Aug-13	7	197.6	139.9	0.053	12	2598.1			1770.1
2013	21-Aug-13	8	206.9	94.1	0.064	3.1	2811.3			2239.6
2013	21-Aug-13	9	158.2	114	0.211	49.4	3148			2421.9
2013	21-Aug-13	10	492.1	488.1	0.232	495	3324.1		0	2330
2013	21-Aug-13	11	762.9	803.5	0.29	692.3	3498.3		0	2321.8
2013	21-Aug-13	12	854.9	780.6	0.371	1162.3	3570.4		0	2418.7
2013	21-Aug-13	13	916.4	727	0.561	1616.7	3562.8		16.5	2298.2
2013	21-Aug-13	14	908.8	738.1	0.713	1734.1	3577.2		40.6	2119.6
2013	21-Aug-13	15	853	839	0.875	1738.3	3595.2		60.7	1994.5
2013	21-Aug-13	16	892.7	780.7	0.628	1702.6	3604.4		92	1918
2013	21-Aug-13	17	729.5	909.8	0.299	1693.3	3526.2		87.2	1775.7
2013	21-Aug-13	18	861.9	971.1	0.262	1718.5	3517.6		73.8	1745.6
2013	21-Aug-13	19	917	933.4	0.286	1728.5	3564.2		83.3	1875.2
2013	21-Aug-13	20	898.8	719.4	0.056	1710.5	3547.8		69.6	2095.5
2013	21-Aug-13	21	735	369		1354.4	3354.4		69.5	1943.7
2013	21-Aug-13	22	478.1	328.6		867.4	2977.9		61.8	1614.7
2013	21-Aug-13	23	380.6	315.8		718.6	2540.1		63.2	1372.4
2013	22-Aug-13	0	324	351.4		711.4	2254.5		64	1390.5
2013	22-Aug-13	1	436.8	317.6		704.5	2069.5		64.2	1405.4
2013	22-Aug-13	2	387.6	197.6		706.1	2014.3		69.6	1384
2013	22-Aug-13	3	464.4	248.1		715.3	1990.9		77.2	1396.9
2013	22-Aug-13	4	556.7	251.7		719.3	2039.5		71.5	1389.1
2013	22-Aug-13	5	626	235.4		726.7	2232.9		74.4	1403.2
2013	22-Aug-13	6	536.5	208	0.057	729.8	2333.9		52	1409.5
2013	22-Aug-13	7	420.1	158.1	0.059	738.2	2473.5		35.4	1469.9
2013	22-Aug-13	8	384	122.9	0.078	738.4	2795.8		58.6	1433.7
2013	22-Aug-13	9	422	173.4	0.248	774.2	3060.4		80.5	2008
2013	22-Aug-13	10	350.9	346.8	0.244	811.4	3076.5		75.9	2021.4
2013	22-Aug-13	11	431.2	433.6	0.242	877.7	3117.8		72.6	2099.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	22-Aug-13	12	711.9	549.5	0.24	1020	3264.1		87.1	2208.4
2013	22-Aug-13	13	559.8	504.6	0.241	874.7	3128.9		94.2	2005.1
2013	22-Aug-13	14	529.2	476.1	0.239	817.7	3038.5		67.7	1853.8
2013	22-Aug-13	15	702.4	655	0.238	886.5	3124.3		61.6	1954
2013	22-Aug-13	16	681.1	824.6	0.293	1055.4	3226.2		47.3	2228.3
2013	22-Aug-13	17	765.9	778.3	0.245	1457.1	3244.4		65.2	2249.5
2013	22-Aug-13	18	694.4	752	0.116	1171.4	3270.1		63.6	2247.1
2013	22-Aug-13	19	806.8	895.5	0.034	1452.9	3368.2		55.7	2269.7
2013	22-Aug-13	20	804.4	863.2		1572.9	3353.3		64.7	2164.1
2013	22-Aug-13	21	655.7	603.6		1176.1	3161.2		76.8	1863.6
2013	22-Aug-13	22	425.8	318.8		881.7	3040.4		134.1	1689
2013	22-Aug-13	23	568.3	133.3		756.7	2881.4		174.1	1326.1
2013	23-Aug-13	0	430.8	195.2		742	2703.8		186.7	1292.2
2013	23-Aug-13	1	286.3	191.8		735.3	2485.9		160.8	1289
2013	23-Aug-13	2	210.5	139		726.2	2377.6		171	1288.9
2013	23-Aug-13	3	164.3	138.7		722.6	2304.2		168.3	1286.2
2013	23-Aug-13	4	127.5	108		725.3	2147.1		168.5	1292.1
2013	23-Aug-13	5	22.468	99.3		719	2172.5		185.2	1269.8
2013	23-Aug-13	6	29.7	97.7		713.9	2320.8		188.7	1260.3
2013	23-Aug-13	7	49.1	114.6		724.9	2720.8		128.9	1271.3
2013	23-Aug-13	8	112	159		720.1	2843.2		14.924	1281.2
2013	23-Aug-13	9	51.1	201.2		779.8	2960.6			1549.3
2013	23-Aug-13	10	87	239.5		814.8	3085			1634
2013	23-Aug-13	11	116.7	190.4		745	2953.6			1514.1
2013	23-Aug-13	12	146	204.8		736.8	2885.4			1533.2
2013	23-Aug-13	13	237.9	190.4		753.4	2720			1513.6
2013	23-Aug-13	14	227.9	210		759.4	2859.3			1384.5
2013	23-Aug-13	15	202	198.7		755.4	2759.1			1248.5
2013	23-Aug-13	16	241.3	190.8		742.6	2558.4			1260.1
2013	23-Aug-13	17	263.7	172.8		747.6	2401.6			1263.8
2013	23-Aug-13	18	197.2	338.2		741.3	2293.1			1304.8
2013	23-Aug-13	19	193.7	262.2		747.1	2136.1			1287.4
2013	23-Aug-13	20	235.9	181.5		746.8	2115.4			279.543
2013	23-Aug-13	21	235.8	132.3		747.2	2104.4			
2013	23-Aug-13	22	241.4	170.8		746.5	2109.7			
2013	23-Aug-13	23	236.7	170.1		741.2	2114.2			
2013	24-Aug-13	0	252.2	166.6		653.9	2120.6			
2013	24-Aug-13	1	270	168.9		724.7	2122.8			
2013	24-Aug-13	2	257.2	201.4		732.4	2126			
2013	24-Aug-13	3	180.4	155.2		735.9	2117.3			
2013	24-Aug-13	4	220.6	139.8		736.1	2085.9			
2013	24-Aug-13	5	227	138.7		736.2	2045.5			
2013	24-Aug-13	6	243.5	160.4		738.3	2014.3			
2013	24-Aug-13	7	204.2	173.5		759	1973.4			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	24-Aug-13	8	143.4	155.8		743.9	1999			
2013	24-Aug-13	9	188.3	123.3		734.1	2119.5			
2013	24-Aug-13	10	247.4	185.2		725.6	2267.6			
2013	24-Aug-13	11	254.4	202.6		726.6	2499.1			
2013	24-Aug-13	12	251.2	239.8		738.9	2792			
2013	24-Aug-13	13	334.3	272.3		745.7	2916.3			
2013	24-Aug-13	14	403	427.3		790.5	3220.5			
2013	24-Aug-13	15	415.5	605.5		1029.7	3336			
2013	24-Aug-13	16	401	760.2		1159.1	3278.1			
2013	24-Aug-13	17	326	457.8		886.1	3054.9			
2013	24-Aug-13	18	295.7	219.5		709.9	2568.4			
2013	24-Aug-13	19	286.4	279.2		695	2199.4			
2013	24-Aug-13	20	288.2	81.4		690.7	2109			
2013	24-Aug-13	21	317.9	66.4		684.6	2012.8			
2013	24-Aug-13	22	235.9	257.1		678.3	1995.1			
2013	24-Aug-13	23	97.3	514.2		676.2	1985.9			
2013	25-Aug-13	0	237.1	531.6		679.7	1983.1			
2013	25-Aug-13	1	291.3	491		682.5	1985.9			
2013	25-Aug-13	2	263.6	570.6		689.5	1971.3			
2013	25-Aug-13	3	252.8	493.3		691.6	1968.4			
2013	25-Aug-13	4	249.6	228.5		693.3	1955.8			
2013	25-Aug-13	5	277	257.4		697.6	1943.9			
2013	25-Aug-13	6	308.8	236.4		702.2	1956.1			
2013	25-Aug-13	7	263.9	275.8		740.5	1913.5			
2013	25-Aug-13	8	210.4	159.5		729.6	1943.8			
2013	25-Aug-13	9	180.9	102.5		720.3	1948.5			
2013	25-Aug-13	10	217.4	130.9		720.9	1934.4			
2013	25-Aug-13	11	223.8	149		730.7	2076.9			
2013	25-Aug-13	12	227.4	153		730.6	2209.7			
2013	25-Aug-13	13	281	169.6		736.1	2513.4			
2013	25-Aug-13	14	290.1	190		731.5	2858			
2013	25-Aug-13	15	385.3	247.1		997	3122.2			
2013	25-Aug-13	16	499.1	458.4		1527.1	3243			
2013	25-Aug-13	17	376.7	381.4		1123.6	3066.3			
2013	25-Aug-13	18	266.9	256.4		748.3	2685.6			
2013	25-Aug-13	19	204	235.7		698.2	2596.5			
2013	25-Aug-13	20	178.8	175.9		676.7	2598.3			
2013	25-Aug-13	21	210.2	176.9		672.2	2236			
2013	25-Aug-13	22	193.3	141.5		667.6	1972			
2013	25-Aug-13	23	203.2	140.3		667.8	1979.4			
2013	26-Aug-13	0	218.7	121.4		667.6	1983.8			
2013	26-Aug-13	1	243.5	140.3		677.3	1995.2			
2013	26-Aug-13	2	228.1	108.1		682.3	1985.1			
2013	26-Aug-13	3	209.5	141		692	2001			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	26-Aug-13	4	205.4	108.1		688.8	2001.2			
2013	26-Aug-13	5	228.2	123.6		682.1	1992.1			
2013	26-Aug-13	6	216.3	102.9		671.6	1983.3			
2013	26-Aug-13	7	227.5	147.2		692	1952.3			
2013	26-Aug-13	8	189.6	102.4		671	1973.8			
2013	26-Aug-13	9	226.3	42		658.9	2033.8			
2013	26-Aug-13	10	248.3	62.8		654.7	2188.9		0	
2013	26-Aug-13	11	261.7	95.1		661.1	2374.4		0	
2013	26-Aug-13	12	233.3	112.8		680.8	2807		20.1	
2013	26-Aug-13	13	324.5	183.1		1032.9	3124.4		38.3	
2013	26-Aug-13	14	400.1	337.4		1614.1	3295.1		43.4	
2013	26-Aug-13	15	544.4	319.4		1717.9	3342.1		42.9	
2013	26-Aug-13	16	628.9	599		1728.1	3368.6		50.1	
2013	26-Aug-13	17	637.6	704.2		1565.3	3309.3		61.5	
2013	26-Aug-13	18	687.5	637.7		989.4	3147.7		58.3	
2013	26-Aug-13	19	775.5	1000.3		911.4	3337		53.4	
2013	26-Aug-13	20	681.4	1249.7		864.1	3296.4		38.7	
2013	26-Aug-13	21	612.8	647.6		704.3	3107.4		46.1	
2013	26-Aug-13	22	400.9	410.9		675.8	2785.7		48.6	
2013	26-Aug-13	23	298.8	336.1		674.9	2371.8		52.2	
2013	27-Aug-13	0	324.1	237.8		677.6	2058.9		75.6	
2013	27-Aug-13	1	312.4	284.4		674.1	2017.2		91.9	
2013	27-Aug-13	2	281	240	0.012	673.2	2013.2		100.9	
2013	27-Aug-13	3	264.4	267.2	0.074	677.9	2009.9		144.6	
2013	27-Aug-13	4	268.4	202.4	0.065	680.8	2022.1		282.7	
2013	27-Aug-13	5	302.8	232.1	0.065	687.5	2330.7		412.8	
2013	27-Aug-13	6	279.3	246.9	0.065	692	2447.5		474.3	
2013	27-Aug-13	7	247.9	215.2	0.071	688.4	2440.1		510.2	
2013	27-Aug-13	8	253.2	143.4	0.041	696.9	2582.8		513.3	
2013	27-Aug-13	9	201.1	208.8	0.06	793.2	2992.8		546.2	
2013	27-Aug-13	10	191.3	347.8	0.132	827.2	3129.2		557.7	
2013	27-Aug-13	11	196.4	444.5	0.242	815	3122.6		541.2	
2013	27-Aug-13	12	311.4	897.5	0.277	1223.9	3359		551.6	
2013	27-Aug-13	13	667.5	1146.1	0.556	1671.2	3435.8		644.1	
2013	27-Aug-13	14	941.2	1066.3	0.816	1700	3451.1		666.6	
2013	27-Aug-13	15	1105.3	1030.1	0.858	1716.1	3447.4		662.3	
2013	27-Aug-13	16	1026.1	831.6	0.851	1727.3	3465.2		652.2	
2013	27-Aug-13	17	1108.6	923.7	0.735	1747.9	3457		631.6	
2013	27-Aug-13	18	1009.5	899.5	0.453	1692.5	3439.8		563.8	
2013	27-Aug-13	19	1012.2	842	0.481	1755.3	3442.1		643.5	
2013	27-Aug-13	20	756	637.1	0.105	1676.7	3383.8		567.6	4.232
2013	27-Aug-13	21	464.9	287		1252.4	3156.1		516	1.9
2013	27-Aug-13	22	433	297.3		943.5	3032.5		476.3	1.9
2013	27-Aug-13	23	332.8	148.4		724.4	2694.3		471.1	1.9



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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	28-Aug-13	0	267.9	128.4		681.2	2322.9		469.4	1.9
2013	28-Aug-13	1	183.1	139.3		675.5	2050.4		486.7	2.2
2013	28-Aug-13	2	123.7	68.4		669.2	2048		596	2.2
2013	28-Aug-13	3	101.1	94		667	2049.2		658.4	1.4
2013	28-Aug-13	4	124.1	133.1	0.036	664.5	2156.3		643.5	61.8
2013	28-Aug-13	5	126.6	296.9	0.06	718.4	2521.9		686.1	596.4
2013	28-Aug-13	6	241.2	394.3	0.045	1285.5	2900.5		749.3	1346
2013	28-Aug-13	7	331.4	488.4	0.053	1705.4	2993		721.2	1445.4
2013	28-Aug-13	8	307.5	245.6	0.064	1628	3128.2		643.2	1305.2
2013	28-Aug-13	9	485.1	493.7	0.113	1601.4	3216.9		634.2	1436.1
2013	28-Aug-13	10	1021.7	1079.2		1498.1	3276		537.1	1508.2
2013	28-Aug-13	11	1059.8	656.2		1284.1	3168		551.5	1464.7
2013	28-Aug-13	12	1001.4	625		1161.7	3141.3		577.1	456.9
2013	28-Aug-13	13	826	630.3		1217.5	3198.9		580.2	64
2013	28-Aug-13	14	463.4	357.9		1137.1	3059.3		610.7	281.5
2013	28-Aug-13	15	498	342.7		1259.6	3253.7		791.2	714.2
2013	28-Aug-13	16	572	435.2		1596.8	3489.1		705.7	894.6
2013	28-Aug-13	17	508.7	332.4		1585.5	3479.7		662.8	1188
2013	28-Aug-13	18	402.5	252.1		1371.2	3456.2		614.5	1403.4
2013	28-Aug-13	19	350.6	208.3		1194.6	3457.1		606.2	1233.8
2013	28-Aug-13	20	398	303.1		1285.7	3478.8		602.6	1398
2013	28-Aug-13	21	237.1	145.3		903.8	3230.7		568.5	1084.4
2013	28-Aug-13	22	146.6	110.9		703.8	2781.5		535.7	522.3
2013	28-Aug-13	23	272.3	267.9		678.4	2362.5		519.7	533.4
2013	29-Aug-13	0	364	217.3		672.5	2114.4		507.4	99.7
2013	29-Aug-13	1	347.3	311.1		670.1	2117.7		500.1	1.7
2013	29-Aug-13	2	288	224.1		668.6	2089.2		505.1	
2013	29-Aug-13	3	278.6	261.5		667.7	2070.3		510.3	
2013	29-Aug-13	4	346.4	202.5		668.6	2065.9		517.1	
2013	29-Aug-13	5	390.2	231.1		679.7	2318		504.6	
2013	29-Aug-13	6	340.1	193.7		717.7	2506.1		501.2	
2013	29-Aug-13	7	287.7	186		877.7	2937.7		517.3	
2013	29-Aug-13	8	306.6	164.2		781.1	3145.8		499.9	
2013	29-Aug-13	9	296.3	317.8		790.7	3200.8		524.6	
2013	29-Aug-13	10	475.6	403		1170.5	3449.3		582	
2013	29-Aug-13	11	543.5	573.6		1324.6	3429.7		529.3	
2013	29-Aug-13	12	863	889.9		1521.8	3512.4		582.4	
2013	29-Aug-13	13	1168.1	857.9		1767	3630.1		612.8	
2013	29-Aug-13	14	1211.1	1082.8		1806.6	3619.2		674.5	
2013	29-Aug-13	15	1220.1	1123.1		1821.8	3651.1		712.8	
2013	29-Aug-13	16	1208.1	1176.1		1832.1	3655.4		782.3	
2013	29-Aug-13	17	1169.9	1039.1		1800	3618.8		703.9	
2013	29-Aug-13	18	1003.4	822.6		1479.1	3428.9		543.2	
2013	29-Aug-13	19	1064.3	698.8		1286.4	3534.4		539.7	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	29-Aug-13	20	1019.1	824.2		1471.6	3583.4		541.2	
2013	29-Aug-13	21	911.4	563.3		944.9	3292.3		463	
2013	29-Aug-13	22	656	424.2		781.1	2922.1		435.5	
2013	29-Aug-13	23	424	247.2		749.9	2401.8		426.3	
2013	30-Aug-13	0	448.1	481		746.8	2223.5		422	
2013	30-Aug-13	1	444.3	482.1		753.4	2207.3		417.7	
2013	30-Aug-13	2	427.2	323.3		755.7	2190.1		415.1	
2013	30-Aug-13	3	436.3	430.5		757.4	2189.2		432.5	
2013	30-Aug-13	4	488.9	304.6		757.8	2207.1		464.1	
2013	30-Aug-13	5	563.5	372.9		748.5	2262.9		465.1	
2013	30-Aug-13	6	458.9	299.8		750.2	2214.4		468.9	
2013	30-Aug-13	7	357.7	336.8		779.6	2334.7		448.3	
2013	30-Aug-13	8	308.5	344.1		852	2746.6		468.7	
2013	30-Aug-13	9	533.7	565.8		1453.2	3196.1		553.2	
2013	30-Aug-13	10	803	743.1		1713.8	3517.1		499.3	
2013	30-Aug-13	11	431.6	814.9		1802.3	3599.9		474.7	
2013	30-Aug-13	12	932.2	1028.3		1863.2	3314.9		476.4	
2013	30-Aug-13	13	1572.1	911.7		1891.5	3562.5		528.6	
2013	30-Aug-13	14	799.1	831.8		1894.6	3636.8		639.1	
2013	30-Aug-13	15	713.3	1141.7		1896	3635.8		733.4	
2013	30-Aug-13	16	865.2	1218.1		1804	3623		733.7	
2013	30-Aug-13	17	751.6	1296.2		1611.6	3579.6		664.8	
2013	30-Aug-13	18	584.2	1106.6		1469.8	3535.1		618.4	
2013	30-Aug-13	19	515.2	817.4		1592.6	3563.1		476	
2013	30-Aug-13	20	306.9	584.3		1150.1	3321.9		401.3	
2013	30-Aug-13	21	193.1	343.7		862.3	3035.3		287	
2013	30-Aug-13	22	248.8	222.9		784.7	2613		80.8	
2013	30-Aug-13	23	212.3	252.8		777.3	2609.8		23.73	
2013	31-Aug-13	0	211.5	380.7		769.3	2475.5			
2013	31-Aug-13	1	169.6	284.7		769.7	2256.9			
2013	31-Aug-13	2	150.2	235.9		777	2202.1			
2013	31-Aug-13	3	151.2	356.2		786.3	2182.7			
2013	31-Aug-13	4	165.8	247.9		802.9	2199.5			
2013	31-Aug-13	5	160.9	318.8		820.5	2212.6			
2013	31-Aug-13	6	128.1	299.7		794.3	2189.9			
2013	31-Aug-13	7	124.9	225.7		814.3	2289.7			
2013	31-Aug-13	8	164	260		1034.9	2764.4			
2013	31-Aug-13	9	64	263.7		1655.3	3256.3			
2013	31-Aug-13	10	85.6	436.7		1738.8	3586.4			
2013	31-Aug-13	11	177.5	864.5		1762.2	3622.1			
2013	31-Aug-13	12	504.6	855.1		1782.5	3637.4			
2013	31-Aug-13	13	869.5	626.1		1785	3621.6			
2013	31-Aug-13	14	920.3	459.7		1793	3625			
2013	31-Aug-13	15	741.1	455.3		1774	3564			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	31-Aug-13	16	992.8	217.7		1739.1	3512.8			
2013	31-Aug-13	17	1363.9	284.9		1654.9	3490.7			
2013	31-Aug-13	18	1235.3	471.1		1727.4	3515.6			
2013	31-Aug-13	19	1430.7	772.5		1777.7	3505.2			
2013	31-Aug-13	20	1580.8	882.5		1774.7	3521.8			
2013	31-Aug-13	21	1513.1	775.6		1639.5	3491.7			
2013	31-Aug-13	22	1190.1	754.7		1434.7	3464.8			
2013	31-Aug-13	23	1067.8	433.9		901	3084			
2013	1-Sep-13	0	845.7	323.2		775.7	2672.9			
2013	1-Sep-13	1	655.1	186.2		739.2	2352.5			
2013	1-Sep-13	2	398.6	124.9		727.6	2145.6			
2013	1-Sep-13	3	340.1	113.6		728.1	2131.1			
2013	1-Sep-13	4	321.6	142.4		728.5	2157			
2013	1-Sep-13	5	261.6	217.3		735.4	2163.7			
2013	1-Sep-13	6	225.4	246.7		733.3	2174.4			
2013	1-Sep-13	7	222.5	285.9		743.9	1707.2			
2013	1-Sep-13	8	215.8	230.9		753	2135.4			
2013	1-Sep-13	9	261.3	245.3		863.4	2729.2			
2013	1-Sep-13	10	307.2	323.5		881.4	3137.3			
2013	1-Sep-13	11	599.5	716.2		1374.7	3428.6			
2013	1-Sep-13	12	1082.7	832.4		1830.1	3491.7			
2013	1-Sep-13	13	817.5	748.1		1804	3509.8			
2013	1-Sep-13	14	1150	781		1840.8	3557.2		0	
2013	1-Sep-13	15	1344.5	1053.6		1810	3519.3		0	
2013	1-Sep-13	16	912.2	927.7		1692.3	3502.6		0.087	
2013	1-Sep-13	17	1000	871.8		1588.5	3527.1			1.334
2013	1-Sep-13	18	815.3	858.2		1493.8	3460.5			5.5
2013	1-Sep-13	19	945.3	916		1540.2	3526.5		0	40.4
2013	1-Sep-13	20	867	899.5		956.4	3375		44.2	3.8
2013	1-Sep-13	21	722.4	609.9		787.8	3206.9		61.3	1.7
2013	1-Sep-13	22	577.9	522		749.3	2931		54	4
2013	1-Sep-13	23	408.6	391.4		732.2	2490.3		50.7	1.5
2013	2-Sep-13	0	316.6	263.4		729.3	2132.2		47.2	24.1
2013	2-Sep-13	1	289.6	208.2		732.3	2101.7		48.8	91.7
2013	2-Sep-13	2	196	153	0.019	731.6	2073.2		57.8	230.4
2013	2-Sep-13	3	187.3	194.6	0.068	736	2077.2		65.9	380.1
2013	2-Sep-13	4	407.8	283.6	0.065	740.7	2066.8		68.1	472.7
2013	2-Sep-13	5	426.2	356.1	0.064	744.5	2071.8		62.7	521.9
2013	2-Sep-13	6	410.2	337.9	0.064	740.6	2088.8		80.3	533.6
2013	2-Sep-13	7	353.4	367.9	0.065	763.3	2149.3		111.9	775.8
2013	2-Sep-13	8	237.8	313.6	0.058	802.7	2344.9		874.1	2095.7
2013	2-Sep-13	9	163.2	254.6	0.051	855.9	2526.5		1233	2985.6
2013	2-Sep-13	10	267.3	305.7	0.103	910.4	3071.4		1563.2	3260.6
2013	2-Sep-13	11	409.9	543.4	0.239	1151.7	3382.6		1459	2788.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	2-Sep-13	12	528.2	923.4	0.23	1397.3	3475.9		1133.2	2524.2
2013	2-Sep-13	13	957.4	1263.2	0.297	1492	3533.3		1234.9	2143.2
2013	2-Sep-13	14	701.3	759.1	0.614	1879.1	3703.3		1123.8	1930.8
2013	2-Sep-13	15	961.2	1025.8	0.804	1921.1	3735.2		715.9	1992.3
2013	2-Sep-13	16	1279.2	1281.7	0.805	1925.6	3758.5		722	1991.2
2013	2-Sep-13	17	1550.4	1290.8	0.784	1942.9	3765.5		946.7	1867.4
2013	2-Sep-13	18	1496.5	1331.6	0.628	1863.1	3735.8		1148.9	1959.2
2013	2-Sep-13	19	1467.1	1365	0.751	1833.7	3738.7		748.7	1996.3
2013	2-Sep-13	20	1299.7	1099.7	0.393	1420.7	3711.1		592.3	1687.8
2013	2-Sep-13	21	850.7	914.5	0.01	983.5	3730.5		450.8	1485.5
2013	2-Sep-13	22	419.7	517.8		841.6	3566.9		486.7	1450.8
2013	2-Sep-13	23	278.9	357.8		792.1	3106.6		434.8	887.5
2013	3-Sep-13	0	222.6	279.9		782.8	2587.4		431.7	812.3
2013	3-Sep-13	1	460.6	238.8		776.9	2234.3		432.2	669.4
2013	3-Sep-13	2	424.4	150.3		775	2211.2		433.1	515.3
2013	3-Sep-13	3	370.4	173.2		767.4	2200.5		437.8	610.7
2013	3-Sep-13	4	293.9	129.9	0	768.1	2254.4		437.4	906
2013	3-Sep-13	5	297.3	142.2	0.055	834.8	2623.8		500.8	1230.3
2013	3-Sep-13	6	364.4	113.8	0.061	896.4	3028.7		784.5	1296.4
2013	3-Sep-13	7	491.3	289.8	0.075	1158.3	3446.8		1033.5	1883.8
2013	3-Sep-13	8	1093.6	655.1	0.226	1643	3563.9		869.9	2230.8
2013	3-Sep-13	9	1037.9	652.4	0.291	1777.7	3669		903.9	2531.6
2013	3-Sep-13	10	924.1	714.5	0.541	1773.7	3688.1		1092.7	2556.4
2013	3-Sep-13	11	1173.8	568.7	0.675	1792.8	3719.7		1067.1	2413.2
2013	3-Sep-13	12	946.8	720.8	0.84	1796.2	3769.2		997	2610.4
2013	3-Sep-13	13	975.6	730.7	0.758	1805.3	3779.9		879.5	2591.6
2013	3-Sep-13	14	828.3	712.4	0.806	1804.8	3787.2		851.6	2346
2013	3-Sep-13	15	626.7	726.9	0.85	1815.2	3795.1		1143.9	2372.9
2013	3-Sep-13	16	762.5	698.5	0.84	1824.6	3812.1		1275.4	2396.8
2013	3-Sep-13	17	893	876	0.785	1700.2	3807.4		1068.6	2255
2013	3-Sep-13	18	537	466.4	0.68	1222	3615		894.6	1987.4
2013	3-Sep-13	19	487.6	729.2	0.418	1132.4	3684.1		877.5	2106.4
2013	3-Sep-13	20	345.1	299.6	0.015	878.8	3447.4		646.7	1628.7
2013	3-Sep-13	21	268.4	244		784.4	2903.6		619.7	1380.6
2013	3-Sep-13	22	345	195.4		365.5	2408.9		603.3	1402.9
2013	3-Sep-13	23	222.5	226.1		0	2227.8		582.1	1416
2013	4-Sep-13	0	189.6	173.5		0	2216.7		569.4	1422
2013	4-Sep-13	1	162.1	168.7			2205		528.7	1157.5
2013	4-Sep-13	2	163.3	150.9			2218.5		526.8	654.9
2013	4-Sep-13	3	153.2	151.1			2208.5		526.3	497.1
2013	4-Sep-13	4	150.1	155.2			2185.9		563.9	506.7
2013	4-Sep-13	5	152.9	150.5			2215.8		589.3	499.8
2013	4-Sep-13	6	145	154.8			2183		612.5	486.9
2013	4-Sep-13	7	141.3	156.5			2135.2		596.1	515.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	4-Sep-13	8	147.7	208.2			2322		571.9	862.4
2013	4-Sep-13	9	167.9	184.5			2551.7		545.7	872.6
2013	4-Sep-13	10	147.8	273.2			3050.7		761.1	1486.3
2013	4-Sep-13	11	124.2	272.9			3116		671.5	1496.3
2013	4-Sep-13	12	149.3	326			3262.3		678.3	1657.7
2013	4-Sep-13	13	173.3	375			3414		683.1	1871.6
2013	4-Sep-13	14	260.8	451.5			3616.5		691.4	2033.7
2013	4-Sep-13	15	365.7	666			3713.5		811.4	2224.9
2013	4-Sep-13	16	549.6	866			3737.7		873.6	2206.7
2013	4-Sep-13	17	822.5	972.5			3679.2		837	2000.6
2013	4-Sep-13	18	870.3	824.5			3646.4		1033.3	1990
2013	4-Sep-13	19	1438.8	1694.5			3667.4		1078.7	1856
2013	4-Sep-13	20	991.4	759.3			3458.4		959.8	1642.2
2013	4-Sep-13	21	857.1	714.8			3036.2		870.9	1280.6
2013	4-Sep-13	22	686	535.3			2532.5		802.6	1428.6
2013	4-Sep-13	23	651.8	653.5			2124.4		751.2	1383.4
2013	5-Sep-13	0	788.2	553			2140.1		710	1364.1
2013	5-Sep-13	1	706.4	574.3			2124.1		709.9	1379.3
2013	5-Sep-13	2	843.9	557.5			2139.4		776.6	1252.8
2013	5-Sep-13	3	945	746.1			2135		732	1182
2013	5-Sep-13	4	1021	541.5			2125.7		598	1218.3
2013	5-Sep-13	5	831.9	492.1			2256.1		565.1	1202.7
2013	5-Sep-13	6	707.5	550.3			2121.2		556.4	1202.5
2013	5-Sep-13	7	653.5	620.4			2156.1		635	1254.1
2013	5-Sep-13	8	462.3	323.4			2440.6		768.4	1269.7
2013	5-Sep-13	9	283	391.1			2539.2		695.8	1274.7
2013	5-Sep-13	10	273.1	461.9			3125.3		780.4	1529.9
2013	5-Sep-13	11	281.5	475.1			3350		745.2	1542.3
2013	5-Sep-13	12	266.7	361.6			3442.8		713.4	1523.9
2013	5-Sep-13	13	277.2	521.7			3592.5		825.9	1856.2
2013	5-Sep-13	14	321.3	387		0	3538.7		886.8	2004.3
2013	5-Sep-13	15	449.3	408.7		0	3638.1		1139.8	2395.9
2013	5-Sep-13	16	454.2	506.1		8.8	3677.3		1242.4	2477.1
2013	5-Sep-13	17	513.5	633.2		3.1	3687.4		1155.5	2486.7
2013	5-Sep-13	18	483.8	555.8		0	3689.5		1258.1	2511.7
2013	5-Sep-13	19	421.3	521.9	0.004		3701.3		1134.5	2300.3
2013	5-Sep-13	20	277.9	230.8	0.035		3508.5		799.5	1916.4
2013	5-Sep-13	21	321.2	152.3	0.054		3057.4		660.9	1759.1
2013	5-Sep-13	22	232.1	145.5	0.065	0	2730.8		687.7	1507
2013	5-Sep-13	23	177.3	99.5	0.066	0	2594.8		725.2	1445
2013	6-Sep-13	0	144.7	127.9	0.076	6.4	2222.7		619.2	1270
2013	6-Sep-13	1	148	145.9	0.076	1.5	2187.1		575.6	1281.4
2013	6-Sep-13	2	135.8	115.5	0.102	0	2194.7		565.1	1329.7
2013	6-Sep-13	3	283.6	228.6	0.241	0	2180.2		680.9	1912

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	6-Sep-13	4	807.6	509.1	0.235	0	2190.5		908.9	2143.8
2013	6-Sep-13	5	1042.5	521.2	0.245	0	2511.3		1059.6	2183.4
2013	6-Sep-13	6	897.9	675.9	0.233	0	2311.4		1052.9	2219.9
2013	6-Sep-13	7	852.2	525	0.231	63.7	2135.4		1186.5	1958.8
2013	6-Sep-13	8	845.9	1069.2	0.232	344.9	2287.2		1080.9	1575.7
2013	6-Sep-13	9	897.6	1476.2	0.331	702.2	2858.8		245.582	1418.3
2013	6-Sep-13	10	1181.2	895.1	0.423	1364.5	3365.1			1779.6
2013	6-Sep-13	11	1145.5	616.1	0.354	1679.3	3546.1			2003.4
2013	6-Sep-13	12	949	714.3	0.27	1730.7	3621.6			1983.2
2013	6-Sep-13	13	898.7	775.7	0.504	1768	3687.5			2205.1
2013	6-Sep-13	14	781.6	862.4	0.773	1780.7	3718.2			2232.8
2013	6-Sep-13	15	800.2	777.6	0.861	1794.7	3721.5			2219.7
2013	6-Sep-13	16	806.1	807.2	0.856	1815.5	3746.7			2182.5
2013	6-Sep-13	17	786.8	516.1	0.88	1815.3	3763			2153.3
2013	6-Sep-13	18	556	604.4	0.893	1824.1	3776.1			2245.6
2013	6-Sep-13	19	622.7	457.8	0.892	1823.7	3756.6			2309
2013	6-Sep-13	20	634.4	222.5	0.892	1827.5	3746.9			2195.9
2013	6-Sep-13	21	644.9	169	0.894	1832.5	3765.4			2054.8
2013	6-Sep-13	22	608.2	297.7	0.626	1800.4	3708.5			1964.9
2013	6-Sep-13	23	356.2	211		1398	3463.8			1605.9
2013	7-Sep-13	0	251.7	14.67		1058.3	3120.2			1465.2
2013	7-Sep-13	1	176.7			844.1	2926.9			1177.7
2013	7-Sep-13	2	131.5			757.2	2475.1			1195.3
2013	7-Sep-13	3	197.2			751.4	2193.1			1243.4
2013	7-Sep-13	4	202.9			751	2190.8			1222.5
2013	7-Sep-13	5	191.6			754	2197.4			1145
2013	7-Sep-13	6	159.3			754.6	2194.5			976.2
2013	7-Sep-13	7	161.5			760.8	2390.8			1042
2013	7-Sep-13	8	138.7			748.4	2290.2			1126.1
2013	7-Sep-13	9	149.8			805.2	2718.4			1377.6
2013	7-Sep-13	10	151.5			775.9	3304.1			1595.3
2013	7-Sep-13	11	288.7			1444.4	3580.7			1950.3
2013	7-Sep-13	12	925.2			1790.8	3586.6			2137.4
2013	7-Sep-13	13	1226.5			1791.2	3584.7			2190.3
2013	7-Sep-13	14	1255.1			1799.3	3566.3			2202.9
2013	7-Sep-13	15	1322.3			1802.1	3571.6			2249.3
2013	7-Sep-13	16	893.3			1798.4	3623.1			2208.8
2013	7-Sep-13	17	841.9			1804.9	3610.5			2206.6
2013	7-Sep-13	18	869.1			1796.5	3600.3			2269.4
2013	7-Sep-13	19	755.3			1705.1	3565.8			2136.5
2013	7-Sep-13	20	793.6			1613.7	3566.2			1960.2
2013	7-Sep-13	21	872.7			1582.9	3494.2			2060.2
2013	7-Sep-13	22	854.6			1464	3482.4			1872.4
2013	7-Sep-13	23	649.3			1095.8	3365.7			1711.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	8-Sep-13	0	448.8			830.6	3285			1464.4
2013	8-Sep-13	1	295.8			691.6	2998.6			1282.2
2013	8-Sep-13	2	155.1			681.4	2557.2			1297.7
2013	8-Sep-13	3	122.1		0.027	683.9	2169.9			1300.3
2013	8-Sep-13	4	128.6		0.035	688.7	2097.8			1308.9
2013	8-Sep-13	5	133.9		0.035	686.4	2108.8			1277.3
2013	8-Sep-13	6	121.4		0.061	1104.4	2404.1			1464.4
2013	8-Sep-13	7	211		0.076	1702.3	3219.4			2074.2
2013	8-Sep-13	8	401.6		0.066	1590.4	3400.6			2199.9
2013	8-Sep-13	9	437.2		0.045	1643.5	3445.7			2186.2
2013	8-Sep-13	10	457.3		0.07	1750.7	3525.3			2260.1
2013	8-Sep-13	11	713		0.249	1766	3550.3			2326.5
2013	8-Sep-13	12	766		0.313	1779.3	3548.3			2281.2
2013	8-Sep-13	13	887		0.65	1783.1	3544			2296.1
2013	8-Sep-13	14	919.7		0.834	1762.2	3593.3			2301.8
2013	8-Sep-13	15	945.2		0.834	1753.8	3608.6			2244.8
2013	8-Sep-13	16	1024.4		0.878	1755.9	3598.1			2198.7
2013	8-Sep-13	17	1097.6		0.774	1875.9	3533.5			2175.9
2013	8-Sep-13	18	1047.6		0.583	1852.3	3645.9			2187.9
2013	8-Sep-13	19	1063.3		0.747	1846.9	3652.8			2165.8
2013	8-Sep-13	20	1088.2		0.545	1818	3641.5			2180.5
2013	8-Sep-13	21	974.9		0.227	1734.7	3649.6			2210.3
2013	8-Sep-13	22	742.9			1640	3615.9			1963.6
2013	8-Sep-13	23	440.2			1180.3	3414.4			1462.7
2013	9-Sep-13	0	313			891.5	3044.4			1258.2
2013	9-Sep-13	1	366.7			727.5	2734.7			1218.4
2013	9-Sep-13	2	363.2			685.1	2339.4			1206.9
2013	9-Sep-13	3	265.8			684.3	2154.9			1218.6
2013	9-Sep-13	4	218.2			688.5	2136.7			1217.8
2013	9-Sep-13	5	230.1			692.4	2207.6			1155
2013	9-Sep-13	6	242.1			681.5	2172.8			1131.1
2013	9-Sep-13	7	211.8			708.7	2160			1189.7
2013	9-Sep-13	8	172.6			694.4	2257.1			1150.1
2013	9-Sep-13	9	177.8			683.3	2359.6			1113.4
2013	9-Sep-13	10	187.9			705.8	2748.3			1143.6
2013	9-Sep-13	11	325.2	0		1061.1	3277.3			1674.1
2013	9-Sep-13	12	1007.7	0		1582	3128.2		0	2074.9
2013	9-Sep-13	13	1074	0		1650.7	3341.2		0	2016.6
2013	9-Sep-13	14	781.6	0		1686.1	3537.2		12	2048.1
2013	9-Sep-13	15	610.2	3.2		1704.9	3560.7		96.9	2083.3
2013	9-Sep-13	16	718.7	0.8		1689	3538.3		101.4	2149.7
2013	9-Sep-13	17	820.9	0		1690.9	3524.9		75.2	2067.7
2013	9-Sep-13	18	801.3	0		1702.7	3555.7		85.7	1848.9
2013	9-Sep-13	19	874.5	0		1704.2	3541		116.9	1853.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	9-Sep-13	20	1023.6	0		1665.2	3513.4		125.9	1517.4
2013	9-Sep-13	21	884.5	0		1236.2	3297.8		102.6	1139.2
2013	9-Sep-13	22	894.7	1.1		899.7	2897.1		102	1102.5
2013	9-Sep-13	23	664.1	0		749.2	2377.3		87.4	1071
2013	10-Sep-13	0	469.2	4.8		738.5	2102.3		82.5	1074.1
2013	10-Sep-13	1	237.3	11.9		737	2130.5		84.2	1145.5
2013	10-Sep-13	2	130.6	26.4		734.3	2120.1		162.6	1157.5
2013	10-Sep-13	3	93.1	29		737.3	2105.4		292.8	1127.9
2013	10-Sep-13	4	148	138.8		731.6	2139.9		392.8	1101.2
2013	10-Sep-13	5	286.9	404.5		812.9	2435.7		438.2	1224.5
2013	10-Sep-13	6	248.2	939.1		859.1	2883.7		522	1167.5
2013	10-Sep-13	7	211	369.3		840.9	2961.8		585.5	1166.9
2013	10-Sep-13	8	472.8	605.1		1060.3	3329.5		720.2	1427.2
2013	10-Sep-13	9	531.9	893.2		1446.3	3477.7		1353.9	1844.8
2013	10-Sep-13	10	562.3	925.8		1712.6	3496.6		1601.4	1886.8
2013	10-Sep-13	11	786.5	1036.3		1720	3489.7		1870.8	2134
2013	10-Sep-13	12	905.7	1029.5		1693.3	3429.2		1821	2138.1
2013	10-Sep-13	13	1089.1	984		1684.8	3493.4		1237	2282.3
2013	10-Sep-13	14	857.9	762		1697	3530.4		1048.5	2456.4
2013	10-Sep-13	15	823.8	698.5		1716.2	3534.3		1097.5	2797.8
2013	10-Sep-13	16	829.1	727.5		1713.3	3552.9		1090.3	2835.8
2013	10-Sep-13	17	731.8	676.9		1715.5	3516.1		935.5	2800.4
2013	10-Sep-13	18	630.6	582.5		1712.1	3478.6		956.1	2815.6
2013	10-Sep-13	19	604.2	581.5		1743.2	3443.2		940.1	2755.2
2013	10-Sep-13	20	709.1	616.8		1718.4	3497.5		910.3	2672.3
2013	10-Sep-13	21	487.5	433.9		1197.9	3392.5	0.083	784.4	2408.5
2013	10-Sep-13	22	367.3	171.4	0.006	797.5	3047.9	0.104	636.9	1954
2013	10-Sep-13	23	294.5	152.6	0.053	766.9	2924.1	0.094	571.8	1883.4
2013	11-Sep-13	0	236.6	66.7	0.065	770.4	2849.9	0.056	639	1523.4
2013	11-Sep-13	1	314.5	35.1	0.065	760.5	2433	0.047	662.4	1453.4
2013	11-Sep-13	2	263.2	100.1	0.065	750.9	2152.9	0.047	698.7	1360.5
2013	11-Sep-13	3	264.2	96.1	0.05	746.6	2099.8	0.047	819.8	1262.6
2013	11-Sep-13	4	291.1	214.1	0.035	760.6	2291.8	0.047	869.5	1207.4
2013	11-Sep-13	5	408.4	311.2	0.035	939.6	2820.4	0.047	846.4	1161
2013	11-Sep-13	6	649.5	230.7	0.062	1550.4	3291.3	0.062	847.7	2301.3
2013	11-Sep-13	7	1153.6	278.8	0.14	1688.5	3454.2	0.062	948.5	2699.3
2013	11-Sep-13	8	1517.5	474.2	0.236	1714	3487.1	0.062	945.9	3045.9
2013	11-Sep-13	9	1331.5	407.4	0.26	1709.2	3513.3	0.062	782.4	3087.8
2013	11-Sep-13	10	1235.2	400.9	0.587	1723.7	3556.4	207.624	823	3130.7
2013	11-Sep-13	11	1207.6	401.8	0.838	1724.4	3601.1	434.101	1019	2933.6
2013	11-Sep-13	12	1203.8	413.8	0.851	1732.4	3619.5	866.7	994.5	3048.2
2013	11-Sep-13	13	1283.6	404.8	0.855	1730.7	3637.2	1748.8	1084.3	3067.7
2013	11-Sep-13	14	1245	408.9	0.826	1732	3650.6	1102.1	1141.9	2993.4
2013	11-Sep-13	15	1167.5	545.6	0.854	1725.8	3662.2	902.4	1160.2	2884.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	11-Sep-13	16	1153.1	971	0.828	1713.6	3669.2	1147.4	1105.6	2844.8
2013	11-Sep-13	17	1210	970.6	0.847	1714.5	3665.8	624.7	899.1	2235.1
2013	11-Sep-13	18	1094.7	1010.1	0.775	1710.3	3672.2	621.9	809.6	1649
2013	11-Sep-13	19	1063.6	996.5	0.821	1711.3	3667.5	461.909	774.5	1880.2
2013	11-Sep-13	20	1085.4	993.2	0.466	1646.8	3621.3	101.176	924.8	2093.4
2013	11-Sep-13	21	991.5	869.8	0.072	925.5	3462.6		729.4	1907.6
2013	11-Sep-13	22	567.2	605.2		759.4	3194.7		634.4	1524.9
2013	11-Sep-13	23	393.4	415.7		727.1	2772.1		541.2	1469.1
2013	12-Sep-13	0	301.4	206.3		657.1	2197.1		520.9	1443.9
2013	12-Sep-13	1	266.6	125		654.3	1955.4		564	1490.8
2013	12-Sep-13	2	223.9	130.2	0.005	655.8	1925.1		576.5	1478.1
2013	12-Sep-13	3	200.8	92.5	0.047	655.6	1928.8		519.9	1543.8
2013	12-Sep-13	4	212.6	122	0.051	655.1	1947.2		653	1574.5
2013	12-Sep-13	5	271.1	118.8	0.051	775.3	2231.8		688	1714.7
2013	12-Sep-13	6	259.1	191.8	0.07	963.1	2567		745.3	2049.3
2013	12-Sep-13	7	358.5	214.5	0.231	1414.2	2846		888.9	2414.8
2013	12-Sep-13	8	366.5	514	0.241	1402.8	3012.9		1168.1	2395.5
2013	12-Sep-13	9	301.7	554.7	0.239	1399.1	3017.1		1723.3	2291
2013	12-Sep-13	10	581.9	834.8	0.395	1478.5	3220.5		1954.5	2507.4
2013	12-Sep-13	11	969.9	956.8	0.679	1489.6	3249.9		1764.5	2895.4
2013	12-Sep-13	12	1014.6	948.7	0.833	1496.7	3249.5		1682.9	2924
2013	12-Sep-13	13	1016.9	897	0.808	1491.2	3284.5		1494.7	2997.9
2013	12-Sep-13	14	873.8	765	0.781	1494.4	3289.1		1220.9	2911.5
2013	12-Sep-13	15	878.2	843.7	0.489	1479.9	3245.8		1036.4	2519.7
2013	12-Sep-13	16	616.4	525.4	0.294	1090.9	3168.1		1036.3	2161.4
2013	12-Sep-13	17	549	455.6	0.245	854.4	3152		1048.7	2233.3
2013	12-Sep-13	18	620.7	419.4	0.244	782.8	3148.7		1207.6	2226.3
2013	12-Sep-13	19	693.5	592.5	0.256	850.8	3170.9		1239.5	2092.4
2013	12-Sep-13	20	740.5	398.4	0.195	808.9	3110.6		1126.6	1929.4
2013	12-Sep-13	21	755.1	246.6		685.6	2884.1		922.2	1689.7
2013	12-Sep-13	22	646	158.5		666.3	2520.4		799.4	1873.4
2013	12-Sep-13	23	579.4	88.9		665.7	2185.1		723.8	1544
2013	13-Sep-13	0	212.2	107.2		664.7	1936.1		123.842	973
2013	13-Sep-13	1	38.178	102.8		665.4	1928			846.9
2013	13-Sep-13	2		137.2		666.8	1917.7			865.4
2013	13-Sep-13	3		162.7		668.4	1911.5			984.4
2013	13-Sep-13	4		91.7		666.4	1927.3			200.04
2013	13-Sep-13	5		97.9		674.2	2149.4			
2013	13-Sep-13	6		86.4		672.6	2113			
2013	13-Sep-13	7		95.6		673	2080.2			
2013	13-Sep-13	8		63.9		667.6	2413.2			
2013	13-Sep-13	9		77.6		693.9	2581.1			
2013	13-Sep-13	10		91.3		658.7	2689.3			
2013	13-Sep-13	11		86.3		652.2	2689.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	13-Sep-13	12		102.8		723.8	2839			
2013	13-Sep-13	13		245.1		1310.6	3095.4			
2013	13-Sep-13	14		343.7		1435.2	3092.1			
2013	13-Sep-13	15		426.3		1241.9	3052.2			
2013	13-Sep-13	16		350.8		884.7	2902.5			
2013	13-Sep-13	17		272.7		659.7	2616.4			
2013	13-Sep-13	18		194.6		651.4	2301.9			
2013	13-Sep-13	19		163.9		639.2	2032.8			
2013	13-Sep-13	20		100.8		624.5	1860.3			
2013	13-Sep-13	21		69.8		621.9	1850.6			
2013	13-Sep-13	22		66.7		619.2	1834.4			
2013	13-Sep-13	23		74.3		212.65	1829.7			
2013	14-Sep-13	0		151			1837.6			
2013	14-Sep-13	1		291.2			1964.2			
2013	14-Sep-13	2		200.1			1827.2			
2013	14-Sep-13	3		275.8			1843.2			
2013	14-Sep-13	4		198.8			1836.4			
2013	14-Sep-13	5		273.5			1826.5			
2013	14-Sep-13	6		252.4			1823.7			
2013	14-Sep-13	7		269.5			1782.6			
2013	14-Sep-13	8		220.3			1815.1			
2013	14-Sep-13	9		225.9			1828.1			
2013	14-Sep-13	10		240.4			1818.6			
2013	14-Sep-13	11		269.6			1814.7			
2013	14-Sep-13	12		261.6			1822.5			
2013	14-Sep-13	13		269.5			1826.5			
2013	14-Sep-13	14		261.1			1818.8			
2013	14-Sep-13	15		261.7			1815.1			
2013	14-Sep-13	16		260.8			1823			
2013	14-Sep-13	17		279.2			1820.2			
2013	14-Sep-13	18		278.8			1818.2			
2013	14-Sep-13	19		285.3			1858.8			
2013	14-Sep-13	20		293.4			1814.6			
2013	14-Sep-13	21		277.9			1809.4			
2013	14-Sep-13	22		303.6			1814			
2013	14-Sep-13	23		285.7			1812.6			
2013	15-Sep-13	0		302.9			1805.6			
2013	15-Sep-13	1		289.8			1791.9			
2013	15-Sep-13	2		291.2			1801.5			
2013	15-Sep-13	3		297.9			1803.3			
2013	15-Sep-13	4		289.3			1794.9			
2013	15-Sep-13	5		281.4			1804.8			
2013	15-Sep-13	6		276.4			1791.7			
2013	15-Sep-13	7		280.6			1783.4			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	15-Sep-13	8		244			1780		0	
2013	15-Sep-13	9		256.8			1781.8		0.9	
2013	15-Sep-13	10		280.4			1781.2		77.7	
2013	15-Sep-13	11		281.3			1771.8		160.9	
2013	15-Sep-13	12		287.4			1803.5		172	
2013	15-Sep-13	13		276.2			1810.8		163.7	
2013	15-Sep-13	14		287.1			1798.7		136	
2013	15-Sep-13	15		281.5			1864.8		138	
2013	15-Sep-13	16		448.4			2128.2		145.2	
2013	15-Sep-13	17		783.2			2064.1		147	
2013	15-Sep-13	18		402.1			2066.5		216.9	1.65
2013	15-Sep-13	19		278.7			2266.4		169.8	0.946
2013	15-Sep-13	20		885.1			2144.7		178.4	3.3
2013	15-Sep-13	21		373.7			1846.8		129.6	2
2013	15-Sep-13	22		126			1805.2		147.7	2
2013	15-Sep-13	23		118.6			1836.9		229.1	2
2013	16-Sep-13	0		60.6			1826.1		357	5
2013	16-Sep-13	1		71.9			1806.8		439.3	81.1
2013	16-Sep-13	2		46.9			1806.5		790.7	43
2013	16-Sep-13	3		56.3			1807.8		735.9	21.4
2013	16-Sep-13	4		49.1			1796.4		563.6	1.7
2013	16-Sep-13	5		60			2062.2		638.5	107.7
2013	16-Sep-13	6		56.5			2201.3		701.7	391.4
2013	16-Sep-13	7		44.6			2135.8		738.5	650.4
2013	16-Sep-13	8		61.3			2013.7		725.3	1074.4
2013	16-Sep-13	9		14.6			2098.7		710.7	1389.5
2013	16-Sep-13	10		26.9			2311.7		713.4	1352.3
2013	16-Sep-13	11		38			2350		722.6	1364.8
2013	16-Sep-13	12		36.4			2162.4		851.8	1903.7
2013	16-Sep-13	13		42.2			2164.9		870	2136.7
2013	16-Sep-13	14		51			2207.6		901	2139.4
2013	16-Sep-13	15		41.7			2141.4		931.1	2455.1
2013	16-Sep-13	16		46.9			2234.4		702.4	2462.1
2013	16-Sep-13	17		48.6			2202.5		549.1	2372.9
2013	16-Sep-13	18		108.9			2069		549.9	2208.2
2013	16-Sep-13	19		153.8			2143.1		530.8	2363.6
2013	16-Sep-13	20		84.1			1900.5		538.3	2450.6
2013	16-Sep-13	21		117.3			1800.3		547.5	2317.7
2013	16-Sep-13	22		54.4			1791.8		548.3	1875.1
2013	16-Sep-13	23		71.5			1793.2		548.2	1932
2013	17-Sep-13	0		66.2			1782.2		559.7	2319.6
2013	17-Sep-13	1		56.7			1799.1		578.7	2284.5
2013	17-Sep-13	2		50.1			1801.8		616.5	2432.4
2013	17-Sep-13	3		50.2			1789.8		610.1	2436.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	17-Sep-13	4		50.4			1811.5		628.9	2494
2013	17-Sep-13	5		51.2			1871.2		623	1354.35
2013	17-Sep-13	6		45.8			1810.2		593.5	
2013	17-Sep-13	7		37.4			1773.4		617.6	
2013	17-Sep-13	8		46.8			1904.3		550.6	
2013	17-Sep-13	9		33			1912.4		510.2	
2013	17-Sep-13	10		42.1			2116.1		493.2	
2013	17-Sep-13	11		50.4			2189.8		475.3	
2013	17-Sep-13	12		63			2341.5		498.3	
2013	17-Sep-13	13		60.5			2361.9		485.1	
2013	17-Sep-13	14		63.5			2275.5		475.4	
2013	17-Sep-13	15		68.4			2232.3		475.7	
2013	17-Sep-13	16		80.6			2248.2		482.2	
2013	17-Sep-13	17		59.4			2034.9		483.4	
2013	17-Sep-13	18		66.3			1873.6		487.4	
2013	17-Sep-13	19		71.3			2082.5		474.2	
2013	17-Sep-13	20		60.8			1885.2		469	
2013	17-Sep-13	21		56.8			1808.9		464.6	
2013	17-Sep-13	22		57.8			1812.3		461.9	
2013	17-Sep-13	23		54.6			1818.2		462.5	
2013	18-Sep-13	0		56.6			1808.7		485.9	
2013	18-Sep-13	1		52.2			1813.1		488.6	
2013	18-Sep-13	2		45.9			1818.8		481.7	
2013	18-Sep-13	3		41.8			1824.2		474.3	
2013	18-Sep-13	4		47			1832.4		463.5	
2013	18-Sep-13	5		44.8			1979.9		436.4	
2013	18-Sep-13	6		208.2			1937.4		549.9	
2013	18-Sep-13	7		245			2005.3		769.5	
2013	18-Sep-13	8		230.7			2251.1		832.8	
2013	18-Sep-13	9		188.9			2322.4		821	
2013	18-Sep-13	10		229.2			2357.7		839.6	
2013	18-Sep-13	11		244.8			2455.3		762.8	
2013	18-Sep-13	12		249			2390.9		729.4	
2013	18-Sep-13	13		250.4			2341.9		719.8	
2013	18-Sep-13	14		255.4			2195.9		719.3	
2013	18-Sep-13	15		256.3			2075.3		678.1	
2013	18-Sep-13	16		268.4			1997.4		640.9	
2013	18-Sep-13	17		262.7			1881.5		734	
2013	18-Sep-13	18		280.9			1983.4		722.8	
2013	18-Sep-13	19		270.7			2289		742.6	
2013	18-Sep-13	20		282.2			2008.9		747.5	
2013	18-Sep-13	21		276.5			1796.3		716.1	
2013	18-Sep-13	22		286.6			1804.5		514.2	
2013	18-Sep-13	23		279			1799.7		411.2	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	19-Sep-13	0		290.2			1795.3		419.8	
2013	19-Sep-13	1		280.1			1802.6		417	
2013	19-Sep-13	2		289.6			1801.8		411.4	
2013	19-Sep-13	3		278			1787.1		412.9	
2013	19-Sep-13	4		277.9			1818		407	
2013	19-Sep-13	5		261.7			1984		403.6	
2013	19-Sep-13	6		265.5			1916.6		385.3	
2013	19-Sep-13	7		262.3			1810.8		383.9	
2013	19-Sep-13	8		241.7			2074.5		467.7	
2013	19-Sep-13	9		249.7			2197.7		527.1	
2013	19-Sep-13	10		276.9			1995.1		526.2	
2013	19-Sep-13	11		273.7			1921.7		514.8	
2013	19-Sep-13	12		281			2039.4		547.2	
2013	19-Sep-13	13		281.2			2289.2		587.5	
2013	19-Sep-13	14		281.9			2488.8		578.3	
2013	19-Sep-13	15		280.1			2729.8		506.6	
2013	19-Sep-13	16		287.4			3016.6		454.3	
2013	19-Sep-13	17		283			2854.7		428.4	
2013	19-Sep-13	18		293.6			2815.9		426	
2013	19-Sep-13	19		278.7			2993.4		436.6	
2013	19-Sep-13	20		285.5			2674.7		409.3	
2013	19-Sep-13	21		274.9			2317.6		615.8	
2013	19-Sep-13	22		281.6			1954.4		449.1	
2013	19-Sep-13	23		289.3			1799.4		399.6	
2013	20-Sep-13	0		284.4			1803.4		396.4	
2013	20-Sep-13	1		284.2			1802.7		391.2	
2013	20-Sep-13	2		276.8			1799.6		379.2	
2013	20-Sep-13	3		272.1			1795.6		388.4	
2013	20-Sep-13	4		278.3			1796.9		441	
2013	20-Sep-13	5		285.9			2082.2		707.9	
2013	20-Sep-13	6		289.6			2092.9		740.6	
2013	20-Sep-13	7		291.8			1922.3		730.5	
2013	20-Sep-13	8		284.6			2156.5		733.9	
2013	20-Sep-13	9		250			2401.5		716.4	
2013	20-Sep-13	10		297.5			2731		728.8	
2013	20-Sep-13	11		337.7			2901.4		761.7	
2013	20-Sep-13	12		313.9			2996.7		745.3	
2013	20-Sep-13	13		354.3			2981.6		752	
2013	20-Sep-13	14		401.9			3001.5		758.3	
2013	20-Sep-13	15		642.6			3005.3		779.9	
2013	20-Sep-13	16		666			2968.4		701	
2013	20-Sep-13	17		494.8			2886.8		599.6	
2013	20-Sep-13	18		364.6			2889.6		585.9	
2013	20-Sep-13	19		360.6			2960.8		599.9	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	20-Sep-13	20		100.2			2713		624	
2013	20-Sep-13	21		154.6			2447		830.5	
2013	20-Sep-13	22		329.1			2044		962.7	
2013	20-Sep-13	23		338.8			1797.5		380.9	
2013	21-Sep-13	0		349.7			1954.7		313.4	
2013	21-Sep-13	1		338.2			1945.6		124.251	
2013	21-Sep-13	2		335.8			1940.4			
2013	21-Sep-13	3		331.4			1938.6			
2013	21-Sep-13	4		337.9			1936.2			
2013	21-Sep-13	5		335.9			1936.6			
2013	21-Sep-13	6		340.9			1938.2			
2013	21-Sep-13	7		327.5			1971.3			
2013	21-Sep-13	8		318.8			2112.8			
2013	21-Sep-13	9		469.4			2348.8			
2013	21-Sep-13	10		494.8			2888.5			
2013	21-Sep-13	11		452.4			3019.8			
2013	21-Sep-13	12		320.8			2799.5			
2013	21-Sep-13	13		208.5			2489.3			
2013	21-Sep-13	14		122.5			2097.3			
2013	21-Sep-13	15		143.6			2042.2			
2013	21-Sep-13	16		117			2071			
2013	21-Sep-13	17		85.4			2106.2			
2013	21-Sep-13	18		103.9			2464			
2013	21-Sep-13	19		123.2			2935			
2013	21-Sep-13	20		80			2817.1			
2013	21-Sep-13	21		79.8			2377.4			
2013	21-Sep-13	22		78.4			2090.9			
2013	21-Sep-13	23		77.4			1921			
2013	22-Sep-13	0		73.9			1909.3			
2013	22-Sep-13	1		77.5			1926.3			
2013	22-Sep-13	2		75.6			1931.3			
2013	22-Sep-13	3		75.9			1928			
2013	22-Sep-13	4		71.6			1921.3			
2013	22-Sep-13	5		79.1			1911.8			
2013	22-Sep-13	6		74.5			1913.9			
2013	22-Sep-13	7		73.9			1885.3			
2013	22-Sep-13	8		89.4			1925.8			
2013	22-Sep-13	9		49.9			1898.5			
2013	22-Sep-13	10		60.2			1909.5			1.474
2013	22-Sep-13	11		66			1949.9			2.2
2013	22-Sep-13	12		67.3			1998			3.8
2013	22-Sep-13	13		72.9			1938.3			2.1
2013	22-Sep-13	14		71.1			1927			2.1
2013	22-Sep-13	15		74.5			1952.4			5.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	22-Sep-13	16		155.8			1914			88.7
2013	22-Sep-13	17		309.2			1958			40.2
2013	22-Sep-13	18		440.6			2263.2			31.7
2013	22-Sep-13	19		544.7			2698.9			23.3
2013	22-Sep-13	20		425.4			2322.6			36
2013	22-Sep-13	21		319.4			2018.6			37.9
2013	22-Sep-13	22		307.7			1904.4			64.7
2013	22-Sep-13	23		311.7			1905.8			147.7
2013	23-Sep-13	0		304.8			1901.7			228
2013	23-Sep-13	1		303.9			1896.4			539.9
2013	23-Sep-13	2		308.1			1897.7			827
2013	23-Sep-13	3		301.8			1900.8			893.7
2013	23-Sep-13	4		305.7			1922.8			1109.1
2013	23-Sep-13	5		301.4			1940			1267.5
2013	23-Sep-13	6		305.2			1917.7			1483.1
2013	23-Sep-13	7		305.5			1908.6			1614.1
2013	23-Sep-13	8		269			2051			1735.7
2013	23-Sep-13	9		287.5			2043.7			1761.9
2013	23-Sep-13	10		305.6			2030.9			1689.3
2013	23-Sep-13	11		305.1			1999.3			1886.7
2013	23-Sep-13	12		461.7			2187.4			2114.9
2013	23-Sep-13	13		801.6			2689.8			2192.8
2013	23-Sep-13	14		295.7			2621.8			2169.1
2013	23-Sep-13	15		205.5			2575.3			2157.2
2013	23-Sep-13	16		158.6			2301.4			2115.7
2013	23-Sep-13	17		138.3			2086.3			2105.2
2013	23-Sep-13	18		91.4			2256.4			2104.6
2013	23-Sep-13	19		71.7			2487.5			2069.5
2013	23-Sep-13	20		74.8			2165.7			2077.3
2013	23-Sep-13	21		69.2			2012.8			2115.9
2013	23-Sep-13	22		80.7			2000			2113.3
2013	23-Sep-13	23		289.1			1993.6			1973.6
2013	24-Sep-13	0		303			2002.4			1936
2013	24-Sep-13	1		319.2			2032.7			1951.9
2013	24-Sep-13	2		319.8			2041.4			1961.2
2013	24-Sep-13	3		327.6			2029.1			2005.4
2013	24-Sep-13	4		323.5			2025.8			2012
2013	24-Sep-13	5		327.9			2395.3			2067.7
2013	24-Sep-13	6		323.8			2411.2			2060.9
2013	24-Sep-13	7		292.7			2170.7			2065.7
2013	24-Sep-13	8		278			2189.2			2071.9
2013	24-Sep-13	9		510.6			2624.2			2062.5
2013	24-Sep-13	10		986.5			3059.8			2066.5
2013	24-Sep-13	11		1014.1			3078.8			2116.4

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	24-Sep-13	12		1421.5			3105.2			2128.9
2013	24-Sep-13	13		935.9			3057.6			2085.3
2013	24-Sep-13	14		629			2653.3			2087.4
2013	24-Sep-13	15		637.6			2746			2147.4
2013	24-Sep-13	16		780.9			2481.5			2142
2013	24-Sep-13	17		813.1			2190.2			2084.6
2013	24-Sep-13	18		873			2466.1			2008.7
2013	24-Sep-13	19		579.3			2487.6			1889.5
2013	24-Sep-13	20		160.2			2207.4			1821.7
2013	24-Sep-13	21		87.7			1978.3			1628.6
2013	24-Sep-13	22		66.3			1992.1			1781.5
2013	24-Sep-13	23		175.2			2012.5			1942.3
2013	25-Sep-13	0		238.4			2015.9			1828.4
2013	25-Sep-13	1		326.6			2009.9			1796.8
2013	25-Sep-13	2		303.4			2000.8			1937.7
2013	25-Sep-13	3		314.9			1986.5			1947.7
2013	25-Sep-13	4		288.8			1998.6			1747.1
2013	25-Sep-13	5		306.2			2114.6			1725.2
2013	25-Sep-13	6		573.6			2303.7			1867.7
2013	25-Sep-13	7		1133.8			2926.7			1955
2013	25-Sep-13	8		677.3			3091.6			1993
2013	25-Sep-13	9		747.9			3359.9			1976.4
2013	25-Sep-13	10		813.3			3391.2			1900.8
2013	25-Sep-13	11		803			3437.6			1863.2
2013	25-Sep-13	12		626.8			3322.2			1818.2
2013	25-Sep-13	13		394.8			3144.9			1824.1
2013	25-Sep-13	14		183.8			3147.4			1879.6
2013	25-Sep-13	15		118.4			3288.4			1925.6
2013	25-Sep-13	16		121.2			3318.8			1943.5
2013	25-Sep-13	17		99.7			3245.6			1945.4
2013	25-Sep-13	18		125.6			3185.4			1876.5
2013	25-Sep-13	19		143			3171.8			1893.4
2013	25-Sep-13	20		90			2801.4			1894.2
2013	25-Sep-13	21		94.1			2485.8			1871.8
2013	25-Sep-13	22		79.3			2177.1			1831.9
2013	25-Sep-13	23		324.5			2066.5			1880.8
2013	26-Sep-13	0		322.3			1873.4			1923.6
2013	26-Sep-13	1		344.6			1868.9			1945.3
2013	26-Sep-13	2		351.4			1872.8			2069.4
2013	26-Sep-13	3		334.7			1863.5			2163.3
2013	26-Sep-13	4		354.3			1863.4			2142.7
2013	26-Sep-13	5		336			2062.4			2108.3
2013	26-Sep-13	6		565			2527.9			2137.7
2013	26-Sep-13	7		1035.8			2835.5			2012.7



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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	26-Sep-13	8		227.9			2860.2			1947.5
2013	26-Sep-13	9		133.3			2876.1			2193.2
2013	26-Sep-13	10		165.5			2882.3			2161.7
2013	26-Sep-13	11		252.1			2899.8			2025.7
2013	26-Sep-13	12		188.3			3024.7			1968
2013	26-Sep-13	13		256			3250.7			2036.6
2013	26-Sep-13	14		221.5			3250.7			2216.5
2013	26-Sep-13	15		320.6			3262			2330.8
2013	26-Sep-13	16		252.4			3229.6			2420.3
2013	26-Sep-13	17		259			3221.1			2466.1
2013	26-Sep-13	18		207.6			3231.4			2367
2013	26-Sep-13	19		225.4			3203.3			2124.5
2013	26-Sep-13	20		226.1			3090.2			1462.6
2013	26-Sep-13	21		461.2			2787.2			1451.4
2013	26-Sep-13	22		321.4			2461.3			1765.8
2013	26-Sep-13	23		349.1			2060.3			2150.2
2013	27-Sep-13	0		348.3			1885.9			2422.8
2013	27-Sep-13	1		341.2			1885.5			2481.3
2013	27-Sep-13	2		329			1897.4			2580.1
2013	27-Sep-13	3		333.7			1882.8			2439.8
2013	27-Sep-13	4		309.9			1867			2455.4
2013	27-Sep-13	5		424.1			2045.3			2530.3
2013	27-Sep-13	6		569.5			2390.8			2500.6
2013	27-Sep-13	7		898.9			2759.8			2575.2
2013	27-Sep-13	8		832.9			2774.4			2612.8
2013	27-Sep-13	9		847.6			2755.5			2544.2
2013	27-Sep-13	10		938.4			2959.7			2446.4
2013	27-Sep-13	11		959.7			3092.9			2331.7
2013	27-Sep-13	12		988.6			3098.2			2364.8
2013	27-Sep-13	13		955.1			3070.7			2399.4
2013	27-Sep-13	14		957.5			3070.1			2402.6
2013	27-Sep-13	15		937.9			3057.3			2402.4
2013	27-Sep-13	16		941.1			3063.3			2379.9
2013	27-Sep-13	17		959			3048.9			2346.6
2013	27-Sep-13	18		829.2			3000.7			2371.3
2013	27-Sep-13	19		315.9			2831.7			2351.8
2013	27-Sep-13	20		77.7			2595.8			2156
2013	27-Sep-13	21		44.8			2219.3			2067.9
2013	27-Sep-13	22		67.1			2012.7			2091.1
2013	27-Sep-13	23		92.9			1775.6			1931.7
2013	28-Sep-13	0		186.8			1747.2			1783.2
2013	28-Sep-13	1		324.6			1752			1767.6
2013	28-Sep-13	2		297.6			1754.9			1693.9
2013	28-Sep-13	3		326.6			1749.6			1586.6

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	28-Sep-13	4		281.9			1749.3			1462.3
2013	28-Sep-13	5		323.9			1747.3			1407.7
2013	28-Sep-13	6		285.4			1748.1			1092.4
2013	28-Sep-13	7		318.1			1725.2			976.1
2013	28-Sep-13	8		203.4			1940.4			924.5
2013	28-Sep-13	9		801.7			2181.2			970.4
2013	28-Sep-13	10		941.3			1962.5			1091.8
2013	28-Sep-13	11		1075.6			1939.3			1242.1
2013	28-Sep-13	12		921.6			2008.3			1219.1
2013	28-Sep-13	13		869.4			1946.8			1433.4
2013	28-Sep-13	14		930.3			1826.6			1756.2
2013	28-Sep-13	15		891.4			1772.8			1889.3
2013	28-Sep-13	16		869.6			1827.4			2162.5
2013	28-Sep-13	17		529.3			1794.3			2176.4
2013	28-Sep-13	18		173.9			1967.2			2176.6
2013	28-Sep-13	19		115.2			2248.6			2256.4
2013	28-Sep-13	20		226.8			2147			2380.1
2013	28-Sep-13	21		311.7			2021.6			2357.2
2013	28-Sep-13	22		272.5			2062.3			2259.8
2013	28-Sep-13	23		340.3			1807.5			2181.6
2013	29-Sep-13	0		243.2			1787.3			2133.8
2013	29-Sep-13	1		279.2			1783.4			2055.6
2013	29-Sep-13	2		206.1			1784.3			2025.7
2013	29-Sep-13	3		249			1788.4			1942.6
2013	29-Sep-13	4		217			1811.5			1930.9
2013	29-Sep-13	5		242.4			1811.9			1696.6
2013	29-Sep-13	6		210.8			1817.9			1664.4
2013	29-Sep-13	7		197.4			1813.9			1678.3
2013	29-Sep-13	8		93.9			1938.5			1695.2
2013	29-Sep-13	9		182.9			1919.4			1795.3
2013	29-Sep-13	10		204.9			1868.6			1884.6
2013	29-Sep-13	11		272.4			1907.1			1872.9
2013	29-Sep-13	12		265.2			2090.9			1964.7
2013	29-Sep-13	13		270.1			2036.5			2021.9
2013	29-Sep-13	14		267.7			2031.6			2198.7
2013	29-Sep-13	15		282.4			2094.3			2190.1
2013	29-Sep-13	16		262.1			2130.9			2173.5
2013	29-Sep-13	17		299.6			2204			2132.5
2013	29-Sep-13	18		274.5			2385.5			2147.6
2013	29-Sep-13	19		297.1			2421.5			2140.4
2013	29-Sep-13	20		283			2140.5			2193.1
2013	29-Sep-13	21		302.7			2086			2253.4
2013	29-Sep-13	22		278.7			2057.1			2011.7
2013	29-Sep-13	23		296			2046.7			1580.3

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	30-Sep-13	0		295.6			2063.1			1534.2
2013	30-Sep-13	1		299.5			2037.8			1555.1
2013	30-Sep-13	2		292.9			2059.4			1389.3
2013	30-Sep-13	3		294.5			2105.1			1349.1
2013	30-Sep-13	4		286.7			2142.1			1218.1
2013	30-Sep-13	5		326.2			2505.2			929.8
2013	30-Sep-13	6		319.1			2877.4			996.9
2013	30-Sep-13	7		282.1			2941.9			1055.6
2013	30-Sep-13	8		204.8			3106.7			1221.5
2013	30-Sep-13	9		194.5			3434.4			1562.6
2013	30-Sep-13	10		260.2			3281.9			1432.6
2013	30-Sep-13	11		303.9			3483.2			1483.8
2013	30-Sep-13	12		343.8			3545.1			1395.3
2013	30-Sep-13	13		295.1			3515.1		0	1216.3
2013	30-Sep-13	14		327.9			3427.8		4.8	981.2
2013	30-Sep-13	15		305.9			3493.6		31.4	977.4
2013	30-Sep-13	16		314.6			3411.6		19.7	990.5
2013	30-Sep-13	17		304.9	0.02		3408.8		29.7	992
2013	30-Sep-13	18		357.4			3686.5		37.8	1282.1
2013	30-Sep-13	19		349	0.032		3734.5		39.7	1388
2013	30-Sep-13	20		325.5	0.048		3421.5		34.1	1366.2
2013	30-Sep-13	21		311.9	0.048		2984.1		41.3	1406
2013	30-Sep-13	22		315.1	0.053		2611		44.3	1089.1
2013	30-Sep-13	23		327.2	0.063		2315.2		34.6	1150.1
2013	1-Oct-13	0		320.7	0.063		2124.9		45.5	1088
2013	1-Oct-13	1		313.8	0.063		2118.7		47	1022.1
2013	1-Oct-13	2		315.6	0.088		2118.7		45	907.1
2013	1-Oct-13	3		303.6	0.138		2130.6		67.8	851.6
2013	1-Oct-13	4		312.3	0.232		2120.4		82.2	895.1
2013	1-Oct-13	5		312.5	0.225		2197.4		68.4	911.9
2013	1-Oct-13	6		321.5	0.219		2220.7		123	901.4
2013	1-Oct-13	7		294.9	0.218		2073.7		190.3	878.4
2013	1-Oct-13	8		253.3	0.218		2298.1		287.1	911.6
2013	1-Oct-13	9		273.4	0.217		2446		565	902.6
2013	1-Oct-13	10		328.3	0.217		2783.1		541.3	911
2013	1-Oct-13	11		311.5	0.216		2918.9		500.9	949.1
2013	1-Oct-13	12		320.3	0.216		3221.8		567	1088.8
2013	1-Oct-13	13		315.2	0.235	6.6	3356.5		600.8	1322.2
2013	1-Oct-13	14		329	0.216	1.2	3186.3		549.9	951.8
2013	1-Oct-13	15		321.4	0.255	0	3303.7		520.1	1196.4
2013	1-Oct-13	16		333.6	0.233	0	3506.6		519.9	1141.4
2013	1-Oct-13	17		295.7	0.221	0	3450.9		504.8	1058.5
2013	1-Oct-13	18		358.7	0.3	0	3606.8		570.4	1433.9
2013	1-Oct-13	19		308.5	0.234	0	3672.4		556.8	1418.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	1-Oct-13	20		317.1	0.217	0	3546.3		519.9	1172.7
2013	1-Oct-13	21		300.8	0.213	0	3141.4		480.8	1186.9
2013	1-Oct-13	22		310.9	0.021	0	2690.5		409.4	1147.9
2013	1-Oct-13	23		308.7		0	2288.4		399.1	1050.3
2013	2-Oct-13	0		307.9		0	2214		431.8	924.9
2013	2-Oct-13	1		335.4		0	2222.2		405.3	912
2013	2-Oct-13	2		339.1		0	2211.4		375.9	1042.2
2013	2-Oct-13	3		322.3		56.4	2208.9		443.6	1190.3
2013	2-Oct-13	4		347.2		345.3	2218.6		514.5	1250.2
2013	2-Oct-13	5		317.1		523.36	2284.5		504.9	1252.3
2013	2-Oct-13	6		349.2			2324.1		538.8	1246.4
2013	2-Oct-13	7		311.2			2206.3		477.2	1193.7
2013	2-Oct-13	8		417			2330.7		463.1	1119.9
2013	2-Oct-13	9		364.4	0.028		2788.3		470.3	1136.4
2013	2-Oct-13	10		458	0.075		3199.2		464.7	1190.8
2013	2-Oct-13	11		531.6	0.131		3526.4		490.3	1219.8
2013	2-Oct-13	12		621.3	0.236		3721.9		691	1517.2
2013	2-Oct-13	13		624.8	0.222		3665.3		547.8	1273.3
2013	2-Oct-13	14		626	0.26		3732.4		634.9	1695.8
2013	2-Oct-13	15		851.4	0.247		3739.2		663.1	1671.7
2013	2-Oct-13	16		907.6	0.25		3693.1		685.2	1699.3
2013	2-Oct-13	17		904.8	0.224		3608.3		607.1	1509.2
2013	2-Oct-13	18		786.5	0.271		3634.4		668.5	1729.2
2013	2-Oct-13	19		596.6	0.225		3595.4		521.3	1568.5
2013	2-Oct-13	20		559.1	0.223		3283.1		507.4	1259.4
2013	2-Oct-13	21		358.6	0.223		2931.1		515.9	1231.4
2013	2-Oct-13	22		499.9	0.223		2468.5		510.1	1184.6
2013	2-Oct-13	23		506.2	0.223		2208.3		417.9	1232.8
2013	3-Oct-13	0		334.8	0.221		2210.4		392.3	1232.7
2013	3-Oct-13	1		465.4	0.222		2198.1		377.5	1207.3
2013	3-Oct-13	2		309.2	0.222		2197.3		384.3	1178.6
2013	3-Oct-13	3		398.9	0.225		2187.2		385	1178.2
2013	3-Oct-13	4		376.9	0.223		2183.8		403.2	1187.3
2013	3-Oct-13	5		392.3	0.223		2219.3		845.3	1199.1
2013	3-Oct-13	6		322.6	0.224		2571.1		654.2	1316.3
2013	3-Oct-13	7		290.2	0.22		2696.5		495.9	1259.1
2013	3-Oct-13	8		284.8	0.221		2368.3		428.5	1204.8
2013	3-Oct-13	9		329.1	0.222		2152.9		432.1	1171.3
2013	3-Oct-13	10		327.2	0.219		2144.4		473	1141
2013	3-Oct-13	11		398.3	0.336		2121		702.2	1653
2013	3-Oct-13	12		471.3	0.55		2105.5		901.9	2136.2
2013	3-Oct-13	13		690.9	0.829		2097.8		852.3	2118.7
2013	3-Oct-13	14		846.5	0.75		2178.2		769.6	2076.5
2013	3-Oct-13	15		863.8	0.83		2661.7		804.9	2022.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	3-Oct-13	16		995.2	0.829		3298		839.9	2146.1
2013	3-Oct-13	17		960.1	0.832		3519.3		826.3	1952
2013	3-Oct-13	18		1068.1	0.83		3531.4		618.1	2062.9
2013	3-Oct-13	19		988.1	0.83		3528.8		659.2	2121.1
2013	3-Oct-13	20		867.5	0.798		3514.5		514.3	1708.3
2013	3-Oct-13	21		946.5	0.506		3368.3		409.4	1503.2
2013	3-Oct-13	22		947.9	0.148		3074.9		385.4	1184.7
2013	3-Oct-13	23		788.3			2816.9		363.4	1139.3
2013	4-Oct-13	0		414.8			2379.6		377	1227.1
2013	4-Oct-13	1		260.5			2164.6		374.5	1238.8
2013	4-Oct-13	2		201.5			2116.2		382.5	1242.8
2013	4-Oct-13	3		289.6			2107.4		423	1184
2013	4-Oct-13	4		397.9			2112		476	1183.9
2013	4-Oct-13	5		359.3			2428.3		598.7	1427.7
2013	4-Oct-13	6		260.9	0.05		2907.5		565.4	1307.2
2013	4-Oct-13	7		279.4	0.056		2849.5		700.1	1261.9
2013	4-Oct-13	8		175.3	0.06		3058		774.2	1159.2
2013	4-Oct-13	9		243.9	0.204		3296.5		672	1424.3
2013	4-Oct-13	10		388.4	0.086		3550.7		706.1	1997.5
2013	4-Oct-13	11		482.3			3620.3		846.7	2181.9
2013	4-Oct-13	12		700.5			3685.1		1035	2303
2013	4-Oct-13	13		1019.3			3727.5		924.6	2309.7
2013	4-Oct-13	14		932.7			3779.5		1185.6	2383
2013	4-Oct-13	15		684.5			3759		1405.8	2299.6
2013	4-Oct-13	16		984.5			3744.1		1473.8	2504.9
2013	4-Oct-13	17		1102.4			3699.7		1232.3	2578.1
2013	4-Oct-13	18		1070.5			3699.8		909.6	2536.2
2013	4-Oct-13	19		657.8			3703.4		854.4	2390.7
2013	4-Oct-13	20		844.3			3690.6		913.1	2404.7
2013	4-Oct-13	21		896.9			3684.6		938.2	2551.6
2013	4-Oct-13	22		916			3654.6		838.6	2475.9
2013	4-Oct-13	23		603.7			3556.4		682.9	2276
2013	5-Oct-13	0		415.4			3214.5		527.3	1957.6
2013	5-Oct-13	1		393.7			3006.3		474.7	1681.4
2013	5-Oct-13	2		347.3			2608.7		526.6	1454.6
2013	5-Oct-13	3		344.9			2296.6		533.8	1437.7
2013	5-Oct-13	4		244.1			2205.4		612.9	1291.1
2013	5-Oct-13	5		236.6			2200.8		807.4	1185.3
2013	5-Oct-13	6		150.1			2276.9		729.8	1130.1
2013	5-Oct-13	7		148.9			2184		548.9	1143.5
2013	5-Oct-13	8		112.2			2575.7		614.5	1505.2
2013	5-Oct-13	9		116.7			3161.2		652.5	1480.8
2013	5-Oct-13	10		222.8			3451		508.4	1682.6
2013	5-Oct-13	11		291.9			3515.9		516.8	1606.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Oct-13	12		318.6			3577.6		507.9	1671.7
2013	5-Oct-13	13		271.5			3521.6		494.2	1376.4
2013	5-Oct-13	14		239.1			3620.5		554.8	1681.8
2013	5-Oct-13	15		375.6			3876.4		740.7	2021.6
2013	5-Oct-13	16		587.5			3841.5		976.1	2324.7
2013	5-Oct-13	17		746.6			3850.9		1019.1	2632.8
2013	5-Oct-13	18		917.5			3867.8		942.8	2821.7
2013	5-Oct-13	19		893.4			3850.8		782.5	2638.8
2013	5-Oct-13	20		392.1			3844.4		658.1	2463.8
2013	5-Oct-13	21		406.9			3729.8		514	2072.1
2013	5-Oct-13	22		310.1			3524.8		448.6	1864.4
2013	5-Oct-13	23		317.4			3249.5		448.1	1484.3
2013	6-Oct-13	0		313.8			2840		420.2	1340.5
2013	6-Oct-13	1		336.4			2476.2		418.1	1281.5
2013	6-Oct-13	2		389.7			2356.6		411.4	1335.7
2013	6-Oct-13	3		435.7			2350.5		417.2	1401.8
2013	6-Oct-13	4		262.8			2345.1		422.4	1400.5
2013	6-Oct-13	5		244.6			2336.5		425	1411.3
2013	6-Oct-13	6		183.6			2336.6		446.5	1372.3
2013	6-Oct-13	7		151.1			2255.4		431.7	1362.3
2013	6-Oct-13	8		121.6			2349.9		440.3	1321
2013	6-Oct-13	9		86.8			2462.1		469.8	1371.1
2013	6-Oct-13	10		157.1			2652		453	1354.4
2013	6-Oct-13	11		362.8			3235.9		528.8	1874.2
2013	6-Oct-13	12		612			3722.8		468.4	1595.8
2013	6-Oct-13	13		832.3			3809.9		455.7	1344.9
2013	6-Oct-13	14		847.7			3747.5		486.9	1525.9
2013	6-Oct-13	15		781.2			3847.9		568.9	1882.3
2013	6-Oct-13	16		707.9			3877		765.7	2176.8
2013	6-Oct-13	17		595.9			3881.3		917.3	1969.3
2013	6-Oct-13	18		469			3854.2		1025.8	2084.1
2013	6-Oct-13	19		402.1			3809		863.9	1788.7
2013	6-Oct-13	20		411.4			3617.7		639.9	1531.5
2013	6-Oct-13	21		402.8			3501.9		503.8	1325.8
2013	6-Oct-13	22		317.8			3113.7		432.1	1366.1
2013	6-Oct-13	23		347.8			2852.8		401.4	1351.5
2013	7-Oct-13	0		257.5			2536.4		418.7	1389
2013	7-Oct-13	1		238.2			2339.9		423.5	1406.9
2013	7-Oct-13	2		295.9			2329.1		429.3	1422.8
2013	7-Oct-13	3		452.6			2340.7		420.6	1362.2
2013	7-Oct-13	4		442.1			2429.9		421.7	1382.9
2013	7-Oct-13	5		930.3			3260.1		660.9	1908
2013	7-Oct-13	6		935.2			3841		934.6	2112.3
2013	7-Oct-13	7		1171.1			3829.1		929.1	2303.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	7-Oct-13	8		988.3			3859.9		908.9	2250.1
2013	7-Oct-13	9		686.2			3901.2		863.8	2301.2
2013	7-Oct-13	10		387.9			3906.8		996.9	2269.8
2013	7-Oct-13	11		374.4			3904.8		986.5	2253.8
2013	7-Oct-13	12		335.2			3941.4		873.9	2182.6
2013	7-Oct-13	13		318.9			3809.7		822.7	1905.2
2013	7-Oct-13	14		183.3			3852.9		578.8	1734.3
2013	7-Oct-13	15		201.6			3633.5		494.1	1577.9
2013	7-Oct-13	16		217.9			3416.3		563.2	1549.5
2013	7-Oct-13	17		207.1			3233.4		552.8	1486.1
2013	7-Oct-13	18		373.2			3537.8		648.4	1379.5
2013	7-Oct-13	19		409.4			3281.2		573.9	1298.3
2013	7-Oct-13	20		707			3085.7		534.6	1278.2
2013	7-Oct-13	21		665.5			2563.1		460.4	1276.1
2013	7-Oct-13	22		332			2320.2		473.8	1282.6
2013	7-Oct-13	23		267.7			2289.2		460.6	1283.7
2013	8-Oct-13	0		264.2			2287		475.4	1281
2013	8-Oct-13	1		287.3			2299.5		425.9	1266.7
2013	8-Oct-13	2		235.2			2297.8		408.2	1249
2013	8-Oct-13	3		339.2			2299.1		426	1236.1
2013	8-Oct-13	4		229.9			2303.1		457.6	1231.8
2013	8-Oct-13	5		245.3			2663.6		589.1	1274.8
2013	8-Oct-13	6		321.6			3314		783.2	1769.4
2013	8-Oct-13	7		265			3619.5		1009.6	2204.3
2013	8-Oct-13	8		134.6			3840.1		1072.1	2517.1
2013	8-Oct-13	9		148.3			3864.3		1057	2387.9
2013	8-Oct-13	10		97.7			3666.5		877	2076.5
2013	8-Oct-13	11		131			3445.8		660.4	1770.4
2013	8-Oct-13	12		144.6			3083		626.1	1414.3
2013	8-Oct-13	13		184.4			2903.6		665	1390.4
2013	8-Oct-13	14		221			3203		747.9	1607.8
2013	8-Oct-13	15		394.4			3690.3		884.1	1870.2
2013	8-Oct-13	16		822.7			3472		656.6	1670.6
2013	8-Oct-13	17		1050.2			3279.4		673.6	1431.1
2013	8-Oct-13	18		1238.9			3284.1		722.1	1356
2013	8-Oct-13	19		1090.1			3123.9		708.4	1392
2013	8-Oct-13	20		606.9			2630.4		745.4	1395.5
2013	8-Oct-13	21		454			2312.6		586.8	1357.9
2013	8-Oct-13	22		201.3			2286.9		560.1	1329.3
2013	8-Oct-13	23		98.7			2284.7		495.9	1287.3
2013	9-Oct-13	0		199.1			2272.9		442.4	1295.6
2013	9-Oct-13	1		154.3			2278.9		445.3	1182.2
2013	9-Oct-13	2		194.2			2280.7		600.3	1095.6
2013	9-Oct-13	3		248.9			2268.1		879.9	1097.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	9-Oct-13	4		247.3			2289.8		885.5	1075.4
2013	9-Oct-13	5		520.3			2977.7		1171.9	1217.8
2013	9-Oct-13	6		633.3			3782.9		1372.7	1734.2
2013	9-Oct-13	7		343.5			3446		913.1	1466.7
2013	9-Oct-13	8		200.5			3458.2		446.1	1303
2013	9-Oct-13	9		134.5			3245.9		442	1344.6
2013	9-Oct-13	10		63.4			3364.7		431.1	843.8
2013	9-Oct-13	11		71.7			3434.1		429.7	933
2013	9-Oct-13	12		181.9			3573.7		462.8	1057.1
2013	9-Oct-13	13		159.7			3535.8		422.3	1039.6
2013	9-Oct-13	14		182.6			3286.7		424.2	989.5
2013	9-Oct-13	15		465.6			3184.7		478.8	1093
2013	9-Oct-13	16		699.2			2813.2		580.6	1207.2
2013	9-Oct-13	17		883.9			2674.9		610.6	1140.2
2013	9-Oct-13	18		934.9			2726.5		575.7	1147.7
2013	9-Oct-13	19		550.8			2923.5		528.8	1209
2013	9-Oct-13	20		335.2			2624.3		500	1002.6
2013	9-Oct-13	21		227			2285.2		420.3	1078.1
2013	9-Oct-13	22		203.7			2223.7		478.9	1077.5
2013	9-Oct-13	23		202			2446.9		206.476	930.4
2013	10-Oct-13	0		217			2447.2			800.8
2013	10-Oct-13	1		238.7			2465.5			865.7
2013	10-Oct-13	2		227.1			2457.3			926.7
2013	10-Oct-13	3		242.4			2458.7			894.1
2013	10-Oct-13	4		354.9			2787.2			1075.2
2013	10-Oct-13	5		622.3			3529.4			1657.7
2013	10-Oct-13	6		735.6			3684.4			1851.1
2013	10-Oct-13	7		410			3506.6			1745.2
2013	10-Oct-13	8		555.9			3306.8			1249.7
2013	10-Oct-13	9		275.5			3245.4			1108.4
2013	10-Oct-13	10		202.1			3273.6			987.2
2013	10-Oct-13	11		150.5			3247.8			938
2013	10-Oct-13	12		259.4			3505.4			1270.9
2013	10-Oct-13	13		179.7			3594.7			1192.6
2013	10-Oct-13	14		284.9			3479.4			1079.7
2013	10-Oct-13	15		312.5			3216.4			955.2
2013	10-Oct-13	16		1012.3			3068.5			1061.1
2013	10-Oct-13	17		929.4			3080.8			974.1
2013	10-Oct-13	18		925.2			3031.2			1043.3
2013	10-Oct-13	19		958.2			3113.5			942.7
2013	10-Oct-13	20		890.4			2781.7			881.1
2013	10-Oct-13	21		523.9			2355.5			881.4
2013	10-Oct-13	22		598.2			2141.9			867.2
2013	10-Oct-13	23		282.9			2078.4			888.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	11-Oct-13	0		348			2093.7			888.8
2013	11-Oct-13	1		174.4			2115.3			862
2013	11-Oct-13	2		215.7			2129.5			832.3
2013	11-Oct-13	3		277.3			2394.8			916.3
2013	11-Oct-13	4		342.7			3052.8			1362.3
2013	11-Oct-13	5		498.8			3464.7			1584.5
2013	11-Oct-13	6		640.2			3619.1			1459.8
2013	11-Oct-13	7		440.9			3487.7			1336.1
2013	11-Oct-13	8		364.2			3245.5			1087.7
2013	11-Oct-13	9		182.3			3129.7			974.3
2013	11-Oct-13	10		163.5			3157.7			790.6
2013	11-Oct-13	11		99			3444.3			961
2013	11-Oct-13	12		203.1			3620.5			1187
2013	11-Oct-13	13		201.3			3646.8			1696.9
2013	11-Oct-13	14		482.6			3697.4			1652.3
2013	11-Oct-13	15		321.7			3722.6			1545.4
2013	11-Oct-13	16		496.7			3717.1			1640.1
2013	11-Oct-13	17		306.6			3655.4			1729.9
2013	11-Oct-13	18		303			3636.1			1687
2013	11-Oct-13	19		141.5			3475.1			1544.3
2013	11-Oct-13	20		202.3			3160.9			1506.9
2013	11-Oct-13	21		124.3			2719.4			1087.4
2013	11-Oct-13	22		147.2			2289			852.7
2013	11-Oct-13	23		111.3			2194.2			939.9
2013	12-Oct-13	0		177.7			2188			1075.6
2013	12-Oct-13	1		211.8			2192.2			1192.8
2013	12-Oct-13	2		301.4			2424.6			1059.3
2013	12-Oct-13	3		380.1			3025.2			991.9
2013	12-Oct-13	4		409.9			3011.8			634.7
2013	12-Oct-13	5		290			2713.7			354.3
2013	12-Oct-13	6		438.2			2487.7			
2013	12-Oct-13	7		369.8			2307.2			
2013	12-Oct-13	8		753.4			2840.7			
2013	12-Oct-13	9		388.3			3456			
2013	12-Oct-13	10		378.9			3750.4			
2013	12-Oct-13	11		245.3			3809.2			
2013	12-Oct-13	12		434.3			3820.7			
2013	12-Oct-13	13		314.5			3794.6			
2013	12-Oct-13	14		522.6			3823			
2013	12-Oct-13	15		310.2			3836.2			
2013	12-Oct-13	16		507.5			3819.6			
2013	12-Oct-13	17		321.4			3812.4			
2013	12-Oct-13	18		355.9			3831.7			
2013	12-Oct-13	19		386.8			3788			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	12-Oct-13	20		351.6			3726.8			
2013	12-Oct-13	21		356.1			3590.8			
2013	12-Oct-13	22		328.2			3543.8			
2013	12-Oct-13	23		286.7			3532.2			
2013	13-Oct-13	0		512.6			3433.9			
2013	13-Oct-13	1		308.5			3414.9			
2013	13-Oct-13	2		335.7			3338.3			
2013	13-Oct-13	3		342			3319.8			
2013	13-Oct-13	4		379.5			3339.3			
2013	13-Oct-13	5		367.6			3349.5			
2013	13-Oct-13	6		354.3			3242.9			
2013	13-Oct-13	7		446.1			2846.5			
2013	13-Oct-13	8		769.6			2607.1			
2013	13-Oct-13	9		438.9			2569.9			
2013	13-Oct-13	10		477.4			2862.2			
2013	13-Oct-13	11		328.9			2771.1			
2013	13-Oct-13	12		333.8			2890.7			
2013	13-Oct-13	13		343.2			2844.4			
2013	13-Oct-13	14		456.7			2570.7			
2013	13-Oct-13	15		183.4			2261.2			
2013	13-Oct-13	16		465.9			2200			
2013	13-Oct-13	17		319.1			2276.8			
2013	13-Oct-13	18		519.9			2575.2			
2013	13-Oct-13	19		296.2			2443.1			
2013	13-Oct-13	20		485.4			2207.5			
2013	13-Oct-13	21		250.8			2001.2			
2013	13-Oct-13	22		440.3			2038.4			
2013	13-Oct-13	23		181.1			1968.5			
2013	14-Oct-13	0		281.8			1936.3			
2013	14-Oct-13	1		125.5	0.056		1944.7			
2013	14-Oct-13	2		179.4	0.066		1923.7			
2013	14-Oct-13	3		112.4	0.077		1906.4			
2013	14-Oct-13	4		187.3	0.077		2070			
2013	14-Oct-13	5		173.7	0.051		2912.2			
2013	14-Oct-13	6		495.1	0.033		3046.1			
2013	14-Oct-13	7		323.6	0.033		2605.8			
2013	14-Oct-13	8		800.8	0.033		2557.8			
2013	14-Oct-13	9		177.3	0.033		2627.4			
2013	14-Oct-13	10		184.4	0.033		2650.3			
2013	14-Oct-13	11		201.4	0.034		2376.1			
2013	14-Oct-13	12		277.2	0.034		2449.5			
2013	14-Oct-13	13		367.8	0.034		2761.2			
2013	14-Oct-13	14		269.9	0.017		2488.4			
2013	14-Oct-13	15		364			2651.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	14-Oct-13	16		270.5			2743			
2013	14-Oct-13	17		329.1			2749.9			
2013	14-Oct-13	18		283.8			3028.6			
2013	14-Oct-13	19		305.1			3071.1			
2013	14-Oct-13	20		194.6			2722.1			
2013	14-Oct-13	21		301.4			2350.8			
2013	14-Oct-13	22		237.1			2022.9			
2013	14-Oct-13	23		322.4			1943.5			
2013	15-Oct-13	0		277.1			1910.2			
2013	15-Oct-13	1		282.5			1915.4			
2013	15-Oct-13	2		284.5			1912.3			
2013	15-Oct-13	3		298.9			1890.8			
2013	15-Oct-13	4		291			1902.2			
2013	15-Oct-13	5		362.3			2177.3			
2013	15-Oct-13	6		414.5			2627.3			
2013	15-Oct-13	7		410.7			2746.8			
2013	15-Oct-13	8		301.5			2782.3			
2013	15-Oct-13	9		335.6			3108.4			
2013	15-Oct-13	10		413.3			3214.2			
2013	15-Oct-13	11		331.9			3207			
2013	15-Oct-13	12		283.4			3204.3			
2013	15-Oct-13	13		313.7			3152			
2013	15-Oct-13	14		198.3			2959.3			
2013	15-Oct-13	15		271.8			2755.1			
2013	15-Oct-13	16		260			2954.5			
2013	15-Oct-13	17		291.4			2898.8			
2013	15-Oct-13	18		1134.6			3109			
2013	15-Oct-13	19		1104.9			3011.7			
2013	15-Oct-13	20		619.9			2898.5			
2013	15-Oct-13	21		121.1			2613.8			
2013	15-Oct-13	22		102			2242			
2013	15-Oct-13	23		110.7			1923.6			
2013	16-Oct-13	0		96.8			1885			
2013	16-Oct-13	1		111.8			1870.6			
2013	16-Oct-13	2		104.5			1854.2			
2013	16-Oct-13	3		112.3			1828.1			
2013	16-Oct-13	4		169.9			1824.2			
2013	16-Oct-13	5		414.9			2059.5			
2013	16-Oct-13	6		697.6			2358			
2013	16-Oct-13	7		1126			2310.9			
2013	16-Oct-13	8		1284.1			2570.3			
2013	16-Oct-13	9		1038.9			2508.6			
2013	16-Oct-13	10		1201			2496.2			
2013	16-Oct-13	11		1083.1			2361.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Oct-13	12		1276.2			2615.3			
2013	16-Oct-13	13		1008.2			2480.1			
2013	16-Oct-13	14		795.1			2309.2			
2013	16-Oct-13	15		226.3			2326.8			
2013	16-Oct-13	16		79.2			2295.2			
2013	16-Oct-13	17		52.3			2327.4			
2013	16-Oct-13	18		57.2			2639			
2013	16-Oct-13	19		35.2			2689.5			
2013	16-Oct-13	20		46.4			2765.1			
2013	16-Oct-13	21		73.1			2461			
2013	16-Oct-13	22		57.8			2099.2			
2013	16-Oct-13	23		160.3			1782.1			
2013	17-Oct-13	0		156.5			1704.3			
2013	17-Oct-13	1		115.6			1702.2			
2013	17-Oct-13	2		94.8			1702.1			
2013	17-Oct-13	3		115.8			1710.4			
2013	17-Oct-13	4		257.7			1749.5			
2013	17-Oct-13	5		1220.1			2454.7			
2013	17-Oct-13	6		1222.7			2900.7			
2013	17-Oct-13	7		386.6			2977.2			
2013	17-Oct-13	8		639.9			3012.3			
2013	17-Oct-13	9		629.7	0.017		3050.8			
2013	17-Oct-13	10		689.4	0.051		3096.6			
2013	17-Oct-13	11		409.8	0.051		3135.3			
2013	17-Oct-13	12		490.6	0.051		3140			
2013	17-Oct-13	13		476	0.051		3129.6			
2013	17-Oct-13	14		590.4	0.051		3158.3			
2013	17-Oct-13	15		575.7	0.072		662.75			
2013	17-Oct-13	16		731.3	0.068					
2013	17-Oct-13	17		554.7	0.064					
2013	17-Oct-13	18		680	0.063					
2013	17-Oct-13	19		406	0.064					
2013	17-Oct-13	20		645	0.056					
2013	17-Oct-13	21		194.4	0.05					
2013	17-Oct-13	22		83.8	0.05					
2013	17-Oct-13	23		65.9	0.05					
2013	18-Oct-13	0		152.1	0.052					
2013	18-Oct-13	1		203.5	0.064					
2013	18-Oct-13	2		191.1	0.064					
2013	18-Oct-13	3		199.5	0.061					
2013	18-Oct-13	4		269.3	0.05					
2013	18-Oct-13	5		297	0.05					
2013	18-Oct-13	6		636.3	0.059					
2013	18-Oct-13	7		437.2	0.064					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	18-Oct-13	8		1344.7	0.041					
2013	18-Oct-13	9		1656.2	0.033					
2013	18-Oct-13	10		1215.6	0.033					
2013	18-Oct-13	11		1247.9	0.033					
2013	18-Oct-13	12		1250.7	0.033					
2013	18-Oct-13	13		727.1	0.033					
2013	18-Oct-13	14		1074	0.033					
2013	18-Oct-13	15		739.9	0.041					
2013	18-Oct-13	16		1117.4	0.05					
2013	18-Oct-13	17		1049	0.05					
2013	18-Oct-13	18		1303.6	0.05					
2013	18-Oct-13	19		1010.7	0.049					
2013	18-Oct-13	20		488	0.049					
2013	18-Oct-13	21		138	0.049					
2013	18-Oct-13	22		139.7	0.049					
2013	18-Oct-13	23		161.9	0.05					
2013	19-Oct-13	0		365.5	0.05					
2013	19-Oct-13	1		427.9	0.049					
2013	19-Oct-13	2		346.8	0.05					
2013	19-Oct-13	3		306.4	0.049					
2013	19-Oct-13	4		302.4	0.042					
2013	19-Oct-13	5		314.8	0.033					
2013	19-Oct-13	6		280.1	0.033					
2013	19-Oct-13	7		378.7	0.046					
2013	19-Oct-13	8		374	0.05					
2013	19-Oct-13	9		379.8	0.049					
2013	19-Oct-13	10		269.3	0.05					
2013	19-Oct-13	11		305.1	0.05					
2013	19-Oct-13	12		229.8	0.05					
2013	19-Oct-13	13		284.2	0.049					
2013	19-Oct-13	14		229.3	0.038					
2013	19-Oct-13	15		276.1	0.034					
2013	19-Oct-13	16		223.4	0.038					
2013	19-Oct-13	17		287.6	0.05					
2013	19-Oct-13	18		243.6	0.05					
2013	19-Oct-13	19		274.1	0.05					
2013	19-Oct-13	20		272.7	0.05					
2013	19-Oct-13	21		277.3	0.05					
2013	19-Oct-13	22		231.4	0.05					
2013	19-Oct-13	23		284.3	0.05					
2013	20-Oct-13	0		283.8	0.05					
2013	20-Oct-13	1		313.2	0.049					
2013	20-Oct-13	2		294.7	0.049					
2013	20-Oct-13	3		310	0.05					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	20-Oct-13	4		240.5	0.05					
2013	20-Oct-13	5		275	0.05					
2013	20-Oct-13	6		258.2	0.05					
2013	20-Oct-13	7		443.6	0.05					
2013	20-Oct-13	8		711.9	0.05					
2013	20-Oct-13	9		810.1	0.05					
2013	20-Oct-13	10		581.2	0.049					
2013	20-Oct-13	11		503.1	0.049					
2013	20-Oct-13	12		358.1	0.067					
2013	20-Oct-13	13		445	0.076					
2013	20-Oct-13	14		350.6	0.066					
2013	20-Oct-13	15		441.9	0.064		0			
2013	20-Oct-13	16		357.7	0.074		0			
2013	20-Oct-13	17		395.9	0.064		0			
2013	20-Oct-13	18		399.8	0.064		210.4			
2013	20-Oct-13	19		612.1	0.076		323			
2013	20-Oct-13	20		644.9	0.074		440.1			
2013	20-Oct-13	21		579.9	0.064		469.4			
2013	20-Oct-13	22		408.1	0.064		551.6			
2013	20-Oct-13	23		423.2	0.074		1066.6			
2013	21-Oct-13	0		349.4	0.066		1582.1			
2013	21-Oct-13	1		345.7	0.025		1853.9			
2013	21-Oct-13	2		331.8			2167.4			
2013	21-Oct-13	3		337.6			2311.5			
2013	21-Oct-13	4		326.9			2502			
2013	21-Oct-13	5		329.3			2789.5			
2013	21-Oct-13	6		314.6	0.036		2761.1			
2013	21-Oct-13	7		360.9	0.05		2906			
2013	21-Oct-13	8		645.9	0.05		3020.7			
2013	21-Oct-13	9		348.5	0.046		3029.4			
2013	21-Oct-13	10		295.4	0.033		3012.8			
2013	21-Oct-13	11		410	0.034		2872.3			
2013	21-Oct-13	12		401.1	0.05		2749			
2013	21-Oct-13	13		458.3	0.043		2522.3			
2013	21-Oct-13	14		414.1			2134.2			
2013	21-Oct-13	15		460.6			2214.8			
2013	21-Oct-13	16		401.5			2220.1			
2013	21-Oct-13	17		479			2187.3			
2013	21-Oct-13	18		415.4			2551.6			
2013	21-Oct-13	19		432			2899.9			
2013	21-Oct-13	20		419.6			2836.2			
2013	21-Oct-13	21		431.7	0.003		2448.9			
2013	21-Oct-13	22		404.1	0.043		2126.5			
2013	21-Oct-13	23		413.2	0.05		2006.1			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	22-Oct-13	0		402.8	0.05		1996.4			
2013	22-Oct-13	1		406	0.05		2006.3			
2013	22-Oct-13	2		404.2	0.05		2023.6			
2013	22-Oct-13	3		414.4	0.05		2030.4		0	
2013	22-Oct-13	4		393.2	0.05		2040.6		0	
2013	22-Oct-13	5		398.3	0.05		2258.1		12.4	
2013	22-Oct-13	6		454.1	0.051		2775.7		9.6	
2013	22-Oct-13	7		405.9	0.051		3237.3		58.2	
2013	22-Oct-13	8		506	0.034		3425.8		70.5	
2013	22-Oct-13	9		380.1	0.033		3398.3		69.3	
2013	22-Oct-13	10		495.6	0.033		3519		60.8	
2013	22-Oct-13	11		399.8	0.036		3380.4		60.4	
2013	22-Oct-13	12		458.6			3207.7		62.6	
2013	22-Oct-13	13		447.7			2969.2		56.7	
2013	22-Oct-13	14		434.6			2564.7		40.7	
2013	22-Oct-13	15		492			2611		34.5	
2013	22-Oct-13	16		491.2	0.018		2527.2		44	
2013	22-Oct-13	17		492.9	0.033		2507.1		53.5	
2013	22-Oct-13	18		550.7	0.033		2889.5		61.7	
2013	22-Oct-13	19		370.8	0.033		3253.4		80.1	
2013	22-Oct-13	20		367.3	0.033		3194.8		85.1	
2013	22-Oct-13	21		421.4	0.033		2905.5		90.2	
2013	22-Oct-13	22		433.1	0.033		2442.9		149.2	
2013	22-Oct-13	23		440.8	0.033		2173.5		188.9	
2013	23-Oct-13	0		420.8	0.033		2073.6		290.3	
2013	23-Oct-13	1		411.8	0.033		2062.8		388.8	
2013	23-Oct-13	2		398.2	0.036		2052.2		541.8	
2013	23-Oct-13	3		399.2	0.045		2049.4		631.9	
2013	23-Oct-13	4		368.4	0.033		2043.8		830	
2013	23-Oct-13	5		408.6	0.061		2129.6		897.6	
2013	23-Oct-13	6		393.3	0.064		2549.6		869.8	
2013	23-Oct-13	7		457.5	0.059		2756.9		720.2	
2013	23-Oct-13	8		493	0.049		3069.3		713.8	
2013	23-Oct-13	9		440	0.049		3217.5		733.5	
2013	23-Oct-13	10		394.4	0.049		3328		742	
2013	23-Oct-13	11		431.2	0.049		3061.8		636.9	
2013	23-Oct-13	12		402.4	0.049		3045.1		604.7	
2013	23-Oct-13	13		433.8	0.049		2986		532.6	
2013	23-Oct-13	14		417	0.045		2780.7		461.7	
2013	23-Oct-13	15		442.3			2791.5		478.9	
2013	23-Oct-13	16		435.4			2629.6		443.9	
2013	23-Oct-13	17		439.9			2882		510.9	
2013	23-Oct-13	18		520			3294.6		736.7	
2013	23-Oct-13	19		564.2			3434.3		860.2	

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	23-Oct-13	20		429.4			3198.3		775.5	
2013	23-Oct-13	21		400			2889.5		613.7	
2013	23-Oct-13	22		431.1			2592.9		467.6	
2013	23-Oct-13	23		407.1			2276.4		453	
2013	24-Oct-13	0		420.1			1980.4		452.6	
2013	24-Oct-13	1		426.4			1942.6		450.5	
2013	24-Oct-13	2		391.2	0.034		1934.1		444.9	
2013	24-Oct-13	3		425.3	0.05		1925.5		433.9	
2013	24-Oct-13	4		386	0.05		1963.6		431.7	
2013	24-Oct-13	5		577.7	0.05		2556.7		498.3	
2013	24-Oct-13	6		995.4	0.05		3166.9		684.6	
2013	24-Oct-13	7		1186.3	0.05		3215.8		724.3	
2013	24-Oct-13	8		1306	0.05		3215.2		807.6	
2013	24-Oct-13	9		295.1	0.05		2981.5		641.1	
2013	24-Oct-13	10		190.6	0.05		2895.7		587	
2013	24-Oct-13	11		127.2	0.05		3020.8		608	
2013	24-Oct-13	12		425.3	0.05		3145.1		685.6	
2013	24-Oct-13	13		486.8	0.05		3203.2		652.8	
2013	24-Oct-13	14		396.8	0.05		2954.5		546.8	
2013	24-Oct-13	15		415.5	0.05		2804.9		486	
2013	24-Oct-13	16		384.3	0.046		2667.8		419.1	
2013	24-Oct-13	17		391.6	0.033		2786.1		443.2	
2013	24-Oct-13	18		364.3	0.05		3092		669.6	
2013	24-Oct-13	19		414.9	0.05		3221.3		784.9	
2013	24-Oct-13	20		374.5	0.05		3296.5		811.7	
2013	24-Oct-13	21		392	0.05		3056.5		680.1	
2013	24-Oct-13	22		346.9	0.05		2680.3		519.7	
2013	24-Oct-13	23		401.5	0.05		2361.7		447.4	
2013	25-Oct-13	0		378.3	0.038		2007.9		444.3	
2013	25-Oct-13	1		385.3			1928.9		426.6	
2013	25-Oct-13	2		357			2038.8		355.6	
2013	25-Oct-13	3		472.1	0.038		2243		174.1	
2013	25-Oct-13	4		728.4	0.05		2743.3		67.642	
2013	25-Oct-13	5		552.9	0.05		3193.4			
2013	25-Oct-13	6		1148.3	0.05		3330.3			
2013	25-Oct-13	7		897.4	0.05		3339.1			
2013	25-Oct-13	8		682.6	0.05		3327.8			
2013	25-Oct-13	9		587	0.05		3384.3			1.32
2013	25-Oct-13	10		561.9	0.05		3148.3			3.7
2013	25-Oct-13	11		263.5	0.05		3036.1			2.2
2013	25-Oct-13	12		235.6	0.05		2891.5			2
2013	25-Oct-13	13		129.9	0.05		2844.7			1.4
2013	25-Oct-13	14		308	0.05		2545.2			1.4
2013	25-Oct-13	15		333.2	0.05		2226.3			0.63



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	25-Oct-13	16		443.9	0.042		2155.4			
2013	25-Oct-13	17		371.8	0.032		2384			
2013	25-Oct-13	18		374.7	0.043		2596.2			
2013	25-Oct-13	19		365.5	0.05		2588.2			
2013	25-Oct-13	20		319	0.036		2511.8			
2013	25-Oct-13	21		356.7	0.042		2336.4			
2013	25-Oct-13	22		314	0.05		2227.5			
2013	25-Oct-13	23		352.8	0.05		2176.4			
2013	26-Oct-13	0		210.88	0.05		2583.5			
2013	26-Oct-13	1			0.05		2730.8			
2013	26-Oct-13	2			0.05		3177.5			
2013	26-Oct-13	3			0.05		3422.3			
2013	26-Oct-13	4			0.05		3341			
2013	26-Oct-13	5			0.05		3434.6			
2013	26-Oct-13	6			0.05		3627.8			
2013	26-Oct-13	7			0.037		3613.4			
2013	26-Oct-13	8			0.032		3410.5			
2013	26-Oct-13	9			0.032		3275.7			
2013	26-Oct-13	10			0.037		3050.2			
2013	26-Oct-13	11			0.049		2697.4			
2013	26-Oct-13	12			0.049		2750.4			
2013	26-Oct-13	13			0.049		2633.5			
2013	26-Oct-13	14			0.049		2495.5			
2013	26-Oct-13	15			0.049		2199.2			
2013	26-Oct-13	16			0.049		2199.9			
2013	26-Oct-13	17			0.049		2349.6			
2013	26-Oct-13	18			0.049		2568.5			
2013	26-Oct-13	19			0.049		2369.5			
2013	26-Oct-13	20			0.049		2301.8			
2013	26-Oct-13	21			0.049		2197.4			
2013	26-Oct-13	22			0.049		2185			
2013	26-Oct-13	23			0.049		2193.7			
2013	27-Oct-13	0			0.049		2197.7			
2013	27-Oct-13	1			0.045		2195.3			
2013	27-Oct-13	2			0.033		2201.7			
2013	27-Oct-13	3			0.037		2197.4			
2013	27-Oct-13	4			0.049		2214.4			
2013	27-Oct-13	5			0.049		2207			
2013	27-Oct-13	6			0.049		2445.8			
2013	27-Oct-13	7			0.049		2832.6			
2013	27-Oct-13	8			0.049		2872.5			
2013	27-Oct-13	9			0.049		2801.5			
2013	27-Oct-13	10			0.072		2457.5			
2013	27-Oct-13	11			0.077		2217.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Oct-13	12		0.4	0.074		2227.8			
2013	27-Oct-13	13		0	0.07		2213.4			
2013	27-Oct-13	14		0.736	0.196		2212.1			
2013	27-Oct-13	15		0	0.222		2211.6			
2013	27-Oct-13	16		6.4	0.223		2230.5			
2013	27-Oct-13	17		2.4	0.242		2351			
2013	27-Oct-13	18		1.6	0.248		2571			
2013	27-Oct-13	19		0	0.225		2410.4			
2013	27-Oct-13	20		0.8	0.226		2347.7			
2013	27-Oct-13	21		0	0.228		2230			
2013	27-Oct-13	22		44.9	0.103		2225.1			
2013	27-Oct-13	23		57.5	0.034		2226.9			
2013	28-Oct-13	0		73.3	0.034		2267.8			
2013	28-Oct-13	1		93.6	0.034		2360.2			
2013	28-Oct-13	2		307.1	0.034		2280.6			
2013	28-Oct-13	3		431.3	0.034		2290.7			
2013	28-Oct-13	4		682.4	0.034		2586			
2013	28-Oct-13	5		335.9	0.034		3145.7			
2013	28-Oct-13	6		462.5	0.034		3641.1			
2013	28-Oct-13	7		530.2	0.034		3764.2			
2013	28-Oct-13	8		822.9	0.034		3814.2			
2013	28-Oct-13	9		608.1	0.034		3821.2			
2013	28-Oct-13	10		610.6	0.034		3828.3			
2013	28-Oct-13	11		675.5	0.034		3822.3			
2013	28-Oct-13	12		608.7	0.034		3742.4			
2013	28-Oct-13	13		596	0.034		3352.4			
2013	28-Oct-13	14		411.7	0.034		2850.9			
2013	28-Oct-13	15		416.9	0.034		2915.9			
2013	28-Oct-13	16		410.4	0.034		2653.5			
2013	28-Oct-13	17		429.9	0.034		2652.9			
2013	28-Oct-13	18		438.8	0.034		3169.2			
2013	28-Oct-13	19		382.3	0.034		3297.6			
2013	28-Oct-13	20		391	0.034		3174.5			
2013	28-Oct-13	21		465.3	0.034		2667.9			
2013	28-Oct-13	22		448.2	0.034		2324			
2013	28-Oct-13	23		463.9	0.034		2275.9			
2013	29-Oct-13	0		431	0.034		2253.2			
2013	29-Oct-13	1		478	0.034		2250.2			
2013	29-Oct-13	2		446.8	0.034		2257.3			
2013	29-Oct-13	3		434.3	0.034		2262.4			
2013	29-Oct-13	4		474.2	0.034		2228.9			
2013	29-Oct-13	5		502.5	0.034		2385.2			
2013	29-Oct-13	6		882.9	0.034		2736			
2013	29-Oct-13	7		438.2	0.034		3196.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	29-Oct-13	8		1239.2	0.034		3228.1			
2013	29-Oct-13	9		416.7	0.034		3381.8			
2013	29-Oct-13	10		270.6	0.036		2993.3			
2013	29-Oct-13	11		136.7	0.035		3109.7			
2013	29-Oct-13	12		184.3	0.034		3228.9			
2013	29-Oct-13	13		192.9	0.033		2885.2			
2013	29-Oct-13	14		334.3	0.033		2545.6			
2013	29-Oct-13	15		341.5	0.034		2586.4			
2013	29-Oct-13	16		399.5	0.034		2787.2			
2013	29-Oct-13	17		537.5	0.034		3219.3			
2013	29-Oct-13	18		961.6	0.034		3632.9			
2013	29-Oct-13	19		575.4	0.04		3598			
2013	29-Oct-13	20		463.9	0.05		3406.2			
2013	29-Oct-13	21		281.6	0.05		3100.7			
2013	29-Oct-13	22		334.7	0.05		2638.7			
2013	29-Oct-13	23		434.7	0.05		2290.1			
2013	30-Oct-13	0		369.9	0.043		2208.5			
2013	30-Oct-13	1		360.1	0.034		2196.7			
2013	30-Oct-13	2		352.8	0.034		2193.6			
2013	30-Oct-13	3		340.6	0.034		2192.6			
2013	30-Oct-13	4		517.5	0.034		2202.9			
2013	30-Oct-13	5		692.9	0.034		2469.1			
2013	30-Oct-13	6		804.6	0.034		2838.5			
2013	30-Oct-13	7		739.4	0.034		3071.3			
2013	30-Oct-13	8		895	0.034		3388.1			
2013	30-Oct-13	9		506.1	0.034		3652			
2013	30-Oct-13	10		888.9	0.043		3603.2			
2013	30-Oct-13	11		495	0.037		3377.6			
2013	30-Oct-13	12		693.7	0.037		3513.8			
2013	30-Oct-13	13		363.8	0.045		3220.1			
2013	30-Oct-13	14		326.3	0.037		3013.8			
2013	30-Oct-13	15		276	0.048		2878.5			
2013	30-Oct-13	16		495.5	0.034		3091			
2013	30-Oct-13	17		483.6	0.049		2983.3			
2013	30-Oct-13	18		498.7	0.05		3125.5			
2013	30-Oct-13	19		370	0.05		2984.7			
2013	30-Oct-13	20		353.3	0.048		2924.8			
2013	30-Oct-13	21		437.3	0.033		2567.9			
2013	30-Oct-13	22		379.6	0.033		2270.1			
2013	30-Oct-13	23		372	0.042		2286.8			
2013	31-Oct-13	0		352.4	0.049		2277.4			
2013	31-Oct-13	1		324.8	0.049		2267.3			
2013	31-Oct-13	2	0	353.9	0.049		2261.2			
2013	31-Oct-13	3	0	365.7	0.049		2262			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	31-Oct-13	4	0	375.6	0.043		2261.4			
2013	31-Oct-13	5	0	416	0.033		2326.6			
2013	31-Oct-13	6	4.1	727.7	0.033		2803.7			
2013	31-Oct-13	7	3.1	799.6	0.033		3484.2			
2013	31-Oct-13	8	8.1	903	0.034		3767.3			
2013	31-Oct-13	9	0	887	0.034		3827.9			
2013	31-Oct-13	10	0	952.8	0.034		3865.3			
2013	31-Oct-13	11	0	700.4	0.034		3905			
2013	31-Oct-13	12	0	832.3	0.034		3925.7			
2013	31-Oct-13	13	0	765.9	0.034		3933.9			
2013	31-Oct-13	14	0	896.6	0.034		3966.7			
2013	31-Oct-13	15	0	782.7	0.034		3976.2			
2013	31-Oct-13	16	0	965.9	0.037		3982.8			
2013	31-Oct-13	17	0	625.9	0.05		3994.6			
2013	31-Oct-13	18	0	418.1	0.05		3736.5			
2013	31-Oct-13	19	0	166.5	0.05		3300.1			
2013	31-Oct-13	20	0	95.8	0.05		2820.6			
2013	31-Oct-13	21	0	111.9	0.05		2479			
2013	31-Oct-13	22	0	189.5	0.05		2391.3			
2013	31-Oct-13	23	0	287.8	0.039		2381.5			
2013	1-Nov-13	0	0	373.4	0.034		2389.9			
2013	1-Nov-13	1	0	400.3	0.034		2405.3			
2013	1-Nov-13	2	0	368.8	0.034		2404			
2013	1-Nov-13	3	0	380.6	0.034		2417.4			
2013	1-Nov-13	4	0	371.7	0.034		2413.5			
2013	1-Nov-13	5	0	493.7	0.034		2736.5			
2013	1-Nov-13	6	0	1014.2	0.034		3796.4			
2013	1-Nov-13	7	6.4	929	0.034		3990.2			
2013	1-Nov-13	8	1.1	1059.4	0.04		3907.6			
2013	1-Nov-13	9	0	158	0.05		3812.5			
2013	1-Nov-13	10	0	199.6	0.037		3879.4			
2013	1-Nov-13	11	1.2	173.7	0.034		3676.5			
2013	1-Nov-13	12	1.3	449.7	0.034		3389.6			
2013	1-Nov-13	13	1.3	416.5	0.043		2834.3			
2013	1-Nov-13	14	2.6	389.3	0.05		2657.9			
2013	1-Nov-13	15	0	409.9	0.043		2886.4			
2013	1-Nov-13	16	0	770.1	0.034		3586.1			
2013	1-Nov-13	17	0	930.1	0.034		3930			
2013	1-Nov-13	18	0	1527.4	0.034		3983.5			
2013	1-Nov-13	19	0	673.3	0.034		3986.9			
2013	1-Nov-13	20	1.2	495.9	0.034		3712.4			
2013	1-Nov-13	21	0	260.3	0.034		3276.7			
2013	1-Nov-13	22	3.6	326.5	0.034		2830.1			
2013	1-Nov-13	23	13.8	310	0.034		2472.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	2-Nov-13	0	29.9	333.6	0.037		2363.3			
2013	2-Nov-13	1	70.2	335.8	0.05		2335.1			
2013	2-Nov-13	2	65.9	324.9	0.05		2357.8			
2013	2-Nov-13	3	3.8	309.8	0.05		2361.7			
2013	2-Nov-13	4	9.5	309.3	0.036		2352			
2013	2-Nov-13	5	17.3	269.4	0.034		2348.8			
2013	2-Nov-13	6	26.5	295.8	0.034		2348.8			
2013	2-Nov-13	7	22.5	359.4	0.042		2399.7			
2013	2-Nov-13	8	28.5	369.2	0.05		2514.6			
2013	2-Nov-13	9	3.5	356.2	0.049		2797.5			
2013	2-Nov-13	10	4	381.7	0.034		2931.3			
2013	2-Nov-13	11	33.3	316.6	0.034		2735.6			
2013	2-Nov-13	12	43.6	301.4	0.034		2471.3			
2013	2-Nov-13	13	106.9	293.6	0.034		2330.9			
2013	2-Nov-13	14	100.9	267.1	0.034		2320.1			
2013	2-Nov-13	15	129.1	270.9	0.034		2309.3			
2013	2-Nov-13	16	12.9	271.8	0.034		2346.2			
2013	2-Nov-13	17	1.7	289.1	0.034		2480.9			
2013	2-Nov-13	18	5	290.1	0.034		2617.9			
2013	2-Nov-13	19	9.1	291.1	0.033		2707.5			
2013	2-Nov-13	20	10.6	296	0.034		2561.1			
2013	2-Nov-13	21	44.9	302.2	0.034		2293.2			
2013	2-Nov-13	22	291.1	297.3	0.039		2277.2			
2013	2-Nov-13	23	354.5	326.8	0.05		2261.8			
2013	3-Nov-13	0	322.8	307.3	0.049		2265.2			
2013	3-Nov-13	1	422.8	312.1	0.034		2248			
2013	3-Nov-13	2	455.1	316.3	0.033		2241.1			
2013	3-Nov-13	3	454.6	336	0.034		2243.2			
2013	3-Nov-13	4	441.3	324.9	0.034		2228.3			
2013	3-Nov-13	5	466.4	354.4	0.043		2244.2			
2013	3-Nov-13	6	500.7	350.6	0.05		2253.4			
2013	3-Nov-13	7	413.7	342.4	0.047		2254.7			
2013	3-Nov-13	8	341.3	421.4	0.034		2303.4			
2013	3-Nov-13	9	569.5	291.3	0.034		2526.9			
2013	3-Nov-13	10	600.3	285.3	0.033		2270.5			
2013	3-Nov-13	11	695.5	272.3	0.033		2194.6			
2013	3-Nov-13	12	722.3	294.7	0.049		2174.8			
2013	3-Nov-13	13	711.5	301.7	0.05		2185.8			
2013	3-Nov-13	14	322.2	300.5	0.041		2172.9			
2013	3-Nov-13	15	72.8	316.8	0.034		2169.6			
2013	3-Nov-13	16	238.6	301.9	0.034		2171.8			
2013	3-Nov-13	17	884.4	319.8	0.034		2264.7			
2013	3-Nov-13	18	398.5	346.3	0.034		2456.4			
2013	3-Nov-13	19	295.5	306.9	0.034		2384.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	3-Nov-13	20	269.1	297.7	0.034		2360.3			
2013	3-Nov-13	21	312.2	288.9	0.034		2158.3			
2013	3-Nov-13	22	286.1	315.8	0.033		2111.4			
2013	3-Nov-13	23	241.9	287.4	0.033		2116.8			
2013	4-Nov-13	0	261.3	268.1	0.033		2108			
2013	4-Nov-13	1	307.4	287.4	0.033		2100			
2013	4-Nov-13	2	265.7	259.7	0.034		2069.2			
2013	4-Nov-13	3	250.5	307.8	0.033		2075.9			
2013	4-Nov-13	4	407	454.2	0.048		2206.8			
2013	4-Nov-13	5	605.9	213.5	0.05		2700.7			
2013	4-Nov-13	6	492.6	530	0.049		3310.6			
2013	4-Nov-13	7	629	670.8	0.05		3583.5			
2013	4-Nov-13	8	1328.2	762.2	0.05		3642.2			
2013	4-Nov-13	9	661.2	826.3	0.05		3527.1			
2013	4-Nov-13	10	460.4	783.9	0.05		3228.8			
2013	4-Nov-13	11	550.4	626.9	0.05		3243.5			
2013	4-Nov-13	12	784.2	633.2	0.05		2992.4			
2013	4-Nov-13	13	557.5	319.1	0.05		2808.1			
2013	4-Nov-13	14	278.3	221.3	0.05		2608.9			
2013	4-Nov-13	15	213.8	121.2	0.05		2614.3			
2013	4-Nov-13	16	280.4	228.9	0.047		2922.1			
2013	4-Nov-13	17	270.4	136.3	0.033		3093.2			
2013	4-Nov-13	18	433.1	478.5	0.033		3434.7			
2013	4-Nov-13	19	589.1	413.1	0.033		3524.2			
2013	4-Nov-13	20	474.4	759.1	0.033		3494.5			
2013	4-Nov-13	21	192.2	241.6	0.035		3322.7			
2013	4-Nov-13	22	409.1	303.4	0.05		3049.2			
2013	4-Nov-13	23	407.1	214.9	0.05		2668.3			
2013	5-Nov-13	0	396	379.4	0.047		2242.9			
2013	5-Nov-13	1	395.8	339.4	0.033		2024.7			
2013	5-Nov-13	2	344.4	345	0.033		2020.6			
2013	5-Nov-13	3	337	319.4	0.033		2007			
2013	5-Nov-13	4	422	376.1	0.047		2046.6			
2013	5-Nov-13	5	1047.2	419.9	0.05		2385.8			
2013	5-Nov-13	6	1897.2	916.5	0.05		2934.1			
2013	5-Nov-13	7	1968.6	1220.4	0.05		3322.6			
2013	5-Nov-13	8	643.5	1130.1	0.045		3444.5			
2013	5-Nov-13	9	503.9	816.5	0.033		3387.4			
2013	5-Nov-13	10	462.5	773.7	0.033		3336.6			
2013	5-Nov-13	11	356.1	351.4	0.033		3250.9			
2013	5-Nov-13	12	300.1	398.6	0.033		3022.9			
2013	5-Nov-13	13	342.6	248	0.034		2877.8			
2013	5-Nov-13	14	325.6	360.1	0.034		2643.9			
2013	5-Nov-13	15	261.5	281.1	0.033		2452.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Nov-13	16	246.9	287.2	0.034		2471.8			
2013	5-Nov-13	17	202.9	245.2	0.042		2640.4			
2013	5-Nov-13	18	185.4	301.5	0.05		3031.7			
2013	5-Nov-13	19	153.4	220.4	0.05		3052.1			
2013	5-Nov-13	20	188.9	277.6	0.05		3170.9			
2013	5-Nov-13	21	182.5	223.5	0.038		2963.4			
2013	5-Nov-13	22	160.8	247.1	0.033		2569.4			
2013	5-Nov-13	23	154.6	211.9	0.034		2265.8			
2013	6-Nov-13	0	179.6	245.5	0.034		2001.4			
2013	6-Nov-13	1	190.8	235	0.048		1988			
2013	6-Nov-13	2	157.7	239.2	0.05		1977			
2013	6-Nov-13	3	153.5	248.7	0.05		1993.8			
2013	6-Nov-13	4	183.7	247.1	0.034		1994.5			
2013	6-Nov-13	5	277.6	480.5	0.033		2255			
2013	6-Nov-13	6	478.6	982.2	0.034		2784.4			
2013	6-Nov-13	7	400.6	1156.8	0.033		3215.4			
2013	6-Nov-13	8	513.3	689.5	0.033		3176			
2013	6-Nov-13	9	282	192.6	0.033		2889.6			
2013	6-Nov-13	10	284.9	148.4	0.033		2783			
2013	6-Nov-13	11	414.9	149.6	0.034		2492.9			
2013	6-Nov-13	12	331.8	234.3	0.034		2296			
2013	6-Nov-13	13	367.2	205.1	0.034		2249.3			
2013	6-Nov-13	14	332.2	283.2	0.034		2125.2			
2013	6-Nov-13	15	300	252	0.034		2043.2			
2013	6-Nov-13	16	337.6	257.6	0.034		2180.6			
2013	6-Nov-13	17	407	281.6	0.034		2429.7			
2013	6-Nov-13	18	411.1	267.4	0.033		2595.4			
2013	6-Nov-13	19	325.9	261.7	0.033		2294.6			
2013	6-Nov-13	20	362.8	259.5	0.034		2118.5			
2013	6-Nov-13	21	392.2	261.5	0.034		2001.3			
2013	6-Nov-13	22	332.9	248.4	0.033		1981.6			
2013	6-Nov-13	23	331.4	257.7	0.033		1972.4			
2013	7-Nov-13	0	361.2	242.1	0.033		1982.4			
2013	7-Nov-13	1	421.7	259.2	0.033		2000.1			
2013	7-Nov-13	2	363.8	258.9	0.033		1994.1			
2013	7-Nov-13	3	328.5	249.1	0.033		1986.1			
2013	7-Nov-13	4	345.1	231.8	0.033		2022.4			
2013	7-Nov-13	5	454.1	267.1	0.033		2056.3			
2013	7-Nov-13	6	1010.9	524.6	0.033		2271.4			
2013	7-Nov-13	7	1142.7	554.7	0.033		2155.8			
2013	7-Nov-13	8	579.8	792	0.033		2207.7			
2013	7-Nov-13	9	953.1	302	0.033		2302.1			
2013	7-Nov-13	10	1213.6	333	0.033		2451.3			
2013	7-Nov-13	11	961.4	254.5	0.033		2420.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	7-Nov-13	12	656.9	231.7	0.033		2459.6			
2013	7-Nov-13	13	337.4	232.2	0.033		2543			
2013	7-Nov-13	14	352.5	239.6	0.033		2365.8			
2013	7-Nov-13	15	408.2	258.3	0.033		2156			
2013	7-Nov-13	16	388.3	264.9	0.033		2213.8			
2013	7-Nov-13	17	438	286.5	0.033		2376.4			
2013	7-Nov-13	18	555.4	368.1	0.033		2817.6			
2013	7-Nov-13	19	451.1	264.7	0.033		2811.8			
2013	7-Nov-13	20	389.6	247.8	0.033		2910.9			
2013	7-Nov-13	21	400.8	265.5	0.033		2793			
2013	7-Nov-13	22	330.5	251.1	0.033		2396.9			
2013	7-Nov-13	23	321.5	272.6	0.039		2104.4			
2013	8-Nov-13	0	357.7	251.3	0.049		2082			
2013	8-Nov-13	1	357.3	256.3	0.049		2062.2			
2013	8-Nov-13	2	305.4	241.3	0.042		2065.7			
2013	8-Nov-13	3	301.8	254.2	0.033		2078.3			
2013	8-Nov-13	4	342.2	249.3	0.033		2053.7			
2013	8-Nov-13	5	477.8	323.2	0.033		2183.5			
2013	8-Nov-13	6	940.4	853.2	0.033		2749.6			
2013	8-Nov-13	7	1029.4	925.7	0.033		3348.7			
2013	8-Nov-13	8	1378.2	845.9	0.033		3492.6			
2013	8-Nov-13	9	429.7	384.7	0.033		3297.4			
2013	8-Nov-13	10	283.3	227	0.033		3045.7			
2013	8-Nov-13	11	433.8	98.1	0.033		3411.7			
2013	8-Nov-13	12	426.9	248.3	0.033		3391.2			
2013	8-Nov-13	13	328.2	313.6	0.033		3074.6			
2013	8-Nov-13	14	289	284.7	0.033		2878.4			
2013	8-Nov-13	15	298	239.3	0.033		2696.9			
2013	8-Nov-13	16	348.2	224.8	0.041		2519.6			
2013	8-Nov-13	17	400	245.3	0.065		2670			
2013	8-Nov-13	18	447.6	321.2	0.065		2654.1			
2013	8-Nov-13	19	495.3	294.4	0.07		2661.5			
2013	8-Nov-13	20	725.8	405.8	0.075		2516.4			
2013	8-Nov-13	21	650	326.3	0.075		1950.1			
2013	8-Nov-13	22	555.5	288.4	0.065		1365.891			
2013	8-Nov-13	23	508.8	307.5	0.063		4.032			
2013	9-Nov-13	0	437.5	282.3	0.063		16.961			
2013	9-Nov-13	1	415	260.4	0.041					
2013	9-Nov-13	2	367.6	267.5						
2013	9-Nov-13	3	370.6	246.2		0				
2013	9-Nov-13	4	385.4	242.8		0				
2013	9-Nov-13	5	416.1	259.7		9.9				
2013	9-Nov-13	6	786.3	542.9		3.7				
2013	9-Nov-13	7	928.2	889.4		19.2				



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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	9-Nov-13	8	1277.7	779.1		8.4				
2013	9-Nov-13	9	1367.3	733.3		2.8				
2013	9-Nov-13	10	1450.8	1074.8		0				
2013	9-Nov-13	11	1508.4	1039.8		0				
2013	9-Nov-13	12	1478.6	1201.3		0				
2013	9-Nov-13	13	744.2	361.5		0				
2013	9-Nov-13	14	349	145.3		0				
2013	9-Nov-13	15	265	222.3		0				
2013	9-Nov-13	16	247.1	296.2		0				
2013	9-Nov-13	17	305.6	238.3		0				
2013	9-Nov-13	18	381.1	239.1		0				
2013	9-Nov-13	19	372.7	193.5		0				
2013	9-Nov-13	20	392.2	207.5		0				
2013	9-Nov-13	21	377.9	200.1		0				
2013	9-Nov-13	22	345.2	209.3		0				
2013	9-Nov-13	23	355.4	182.1		0				
2013	10-Nov-13	0	397.3	198.9		0				
2013	10-Nov-13	1	374.9	192.5		0				
2013	10-Nov-13	2	333.6	197.6		0				
2013	10-Nov-13	3	336.9	177		0				
2013	10-Nov-13	4	372	198.7		0			0	
2013	10-Nov-13	5	369.6	196.8		0			0	
2013	10-Nov-13	6	324.8	252.1		0			0	
2013	10-Nov-13	7	434.2	216.3		18.4			0	
2013	10-Nov-13	8	913	796.2		7.3			0	2.945
2013	10-Nov-13	9	667.8	505.1		0			11.8	2.1
2013	10-Nov-13	10	1057.3	902.7		0			21.5	3.7
2013	10-Nov-13	11	1089.5	960		0			22.7	1.7
2013	10-Nov-13	12	988.5	629		0			27.9	2
2013	10-Nov-13	13	485.1	188.3		0			26.9	2
2013	10-Nov-13	14	615.5	288.2		0			30.5	1.6
2013	10-Nov-13	15	469.8	265.3		0			33.3	1.6
2013	10-Nov-13	16	360.4	253.5		0			36.7	2
2013	10-Nov-13	17	441.6	287.2		0			38.3	1.8
2013	10-Nov-13	18	634.4	707.2		0			46.1	1.4
2013	10-Nov-13	19	705.7	618.3		0			45.6	1.5
2013	10-Nov-13	20	750.9	993		0			45.5	4.9
2013	10-Nov-13	21	773.3	839.3		0			48.6	2.6
2013	10-Nov-13	22	636	645.9		0			52.2	30.8
2013	10-Nov-13	23	552.9	349.5		0			40.7	99
2013	11-Nov-13	0	432.1	254.5		0			94.4	290.2
2013	11-Nov-13	1	380.9	139.9		0			264.5	661.7
2013	11-Nov-13	2	367.9	149.9		0			305.2	690.9
2013	11-Nov-13	3	366.3	221.6		0			481.5	673.9

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	11-Nov-13	4	549.6	769.3		0			912.3	1372.7
2013	11-Nov-13	5	642.4	748.3		0			1166	1909.1
2013	11-Nov-13	6	608.4	1035.3		0			1055.1	1568.7
2013	11-Nov-13	7	547.3	829.4		14.5			1083.9	1811.8
2013	11-Nov-13	8	512.9	1197.7		6			1039.8	2208.4
2013	11-Nov-13	9	479	419.4		0.7			765.1	2227.7
2013	11-Nov-13	10	503.2	749		0			799.9	2143.6
2013	11-Nov-13	11	522.4	352.2		0			632.2	2048.9
2013	11-Nov-13	12	575.6	192		0			648.6	1899.9
2013	11-Nov-13	13	636.9	133.9		0			470.9	1767.2
2013	11-Nov-13	14	608	145.9		0			443.3	1781.2
2013	11-Nov-13	15	602.8	229.2		0			468.3	1813
2013	11-Nov-13	16	682	988.6		0			485.9	1873.2
2013	11-Nov-13	17	910.4	1105.8		0			712.2	2470.3
2013	11-Nov-13	18	863	1326.1		0			999.3	2626.5
2013	11-Nov-13	19	1216	1091.5		0			1061.6	2546
2013	11-Nov-13	20	1065	867.9		0			823.1	2538.6
2013	11-Nov-13	21	792	378.8		0			573.8	1999.9
2013	11-Nov-13	22	555.6	331.3		0			473.2	1594.9
2013	11-Nov-13	23	383.9	240		0			433.2	1616.1
2013	12-Nov-13	0	294.4	382.9		0			424.3	1712.6
2013	12-Nov-13	1	306.6	263.6		0			418.2	1651.3
2013	12-Nov-13	2	409.1	334.6		0			423.7	1415.2
2013	12-Nov-13	3	353.1	262.4		0			446.2	1443.6
2013	12-Nov-13	4	401.5	340		0			468.8	1700.6
2013	12-Nov-13	5	1022.4	382.6		0			879.6	2073.3
2013	12-Nov-13	6	1146	694.4		0			930.9	1983.1
2013	12-Nov-13	7	1238.6	438.5		8.1			1402.8	2515.6
2013	12-Nov-13	8	1302.6	619.5		0			1480.8	2906.5
2013	12-Nov-13	9	723.2	397.9		0			1477.1	2845.5
2013	12-Nov-13	10	936	804.8		0			1171	2829.6
2013	12-Nov-13	11	1060.1	833		0			1243.3	2752.3
2013	12-Nov-13	12	1148.3	983		0			1349.2	2684.2
2013	12-Nov-13	13	1206.6	855.1		0			1030.2	2719.3
2013	12-Nov-13	14	1222.9	1026		0			1098.6	2701.6
2013	12-Nov-13	15	1199.2	850.9		0			1111.9	2704.6
2013	12-Nov-13	16	1261.8	959.8		0			1274.8	2793.9
2013	12-Nov-13	17	1288.1	810.5		0			1402.1	2986.1
2013	12-Nov-13	18	1235.4	967.5		0			1301.7	2976.8
2013	12-Nov-13	19	1186.1	848.2		0			1217.4	2927.1
2013	12-Nov-13	20	1261.9	962.5		0			1011.9	2982.2
2013	12-Nov-13	21	1288.7	835.3		0			938.7	2864.3
2013	12-Nov-13	22	1224.5	814.6		0			921.4	2626.2
2013	12-Nov-13	23	1113	672		0			1167	2569.6

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	13-Nov-13	0	1019.2	760.4		0			1711.5	2441.8
2013	13-Nov-13	1	547.5	252.1		0			1897.5	2143.1
2013	13-Nov-13	2	885	514.1		0			1983.1	1964.3
2013	13-Nov-13	3	1092.1	715.3		0			1912.8	1439.6
2013	13-Nov-13	4	1164.8	857.6		0			2193.7	1893.8
2013	13-Nov-13	5	1246.4	574.6		0			2251.2	2478.3
2013	13-Nov-13	6	1177.2	800		0			2077.1	2487.5
2013	13-Nov-13	7	1183.1	735.3		17.7			1340.9	2532
2013	13-Nov-13	8	1081	1202		6.2			1605.1	2415.3
2013	13-Nov-13	9	1110.5	695.6		0.3			1523.5	2878.7
2013	13-Nov-13	10	1081.2	914.2		0			1431.6	3408.3
2013	13-Nov-13	11	1050.9	804.2		0			1950.5	3366.5
2013	13-Nov-13	12	1216.5	971.6		0			2016.1	3425.6
2013	13-Nov-13	13	1195.6	787.6		0			1950.5	3338.4
2013	13-Nov-13	14	1161.5	917.9		0			2032.4	3279.1
2013	13-Nov-13	15	1162	800.6		0			2174.8	3274.4
2013	13-Nov-13	16	1276.1	1006.4		0			1738.8	3213
2013	13-Nov-13	17	1298.9	781.4		0			1754.9	3202.5
2013	13-Nov-13	18	1211.9	961.7		0			1990.1	3297.3
2013	13-Nov-13	19	1221.6	840.4		0			2190.3	3228.8
2013	13-Nov-13	20	1251	910.1		0			2212.2	3308.5
2013	13-Nov-13	21	1219.4	797.1		0			2199.3	3384.5
2013	13-Nov-13	22	1147.1	917.5		0			2026.1	3108.1
2013	13-Nov-13	23	1114.7	748.2		0			1982.8	2621.1
2013	14-Nov-13	0	1233.4	1006.5		0			1911.2	2056.4
2013	14-Nov-13	1	1254.7	1002.9		0			1781.6	2192.9
2013	14-Nov-13	2	1189.8	1133.3		0			1522.8	2491.3
2013	14-Nov-13	3	1149.2	1006.7		0			1216	2508.1
2013	14-Nov-13	4	1281.1	1125.3		0			1587.9	2634.6
2013	14-Nov-13	5	1264.3	1080.6		0			1677.3	2679.2
2013	14-Nov-13	6	1271.1	1215.8		0			1294.3	2639.1
2013	14-Nov-13	7	1420.5	1106.8		16.2			1807.9	2663.1
2013	14-Nov-13	8	1491	1084.7		6.9			1870	2664.5
2013	14-Nov-13	9	959	899		17.3			1823.2	3505.7
2013	14-Nov-13	10	1119.1	1142.8		26.4			1407.7	3160.4
2013	14-Nov-13	11	1092.1	900.4		26.3			1289.4	2890.9
2013	14-Nov-13	12	1225.1	1110.1		5.1			1232.1	2898.5
2013	14-Nov-13	13	1234.4	968.4		3.7			1147.1	2869
2013	14-Nov-13	14	1314.1	1216.6		0			1222.2	2899.7
2013	14-Nov-13	15	1305.5	1023.4		0			1123.7	2861.7
2013	14-Nov-13	16	1451.7	1278.4		0			1180.3	2932
2013	14-Nov-13	17	1396.9	1082		0			1050.3	2883.5
2013	14-Nov-13	18	1400.6	1206.7		0			1537.3	2761.3
2013	14-Nov-13	19	1335.8	1126.5		0			1639.9	2819.6

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	14-Nov-13	20	1251.3	1105.8		0			1501.3	2663.7
2013	14-Nov-13	21	838.1	555.2		0			1090	2408.2
2013	14-Nov-13	22	484.5	585.4		0			636.9	2084.6
2013	14-Nov-13	23	288.4	268.3		0			565	1732.3
2013	15-Nov-13	0	279.8	239		0			709.1	1439.8
2013	15-Nov-13	1	238.6	115.5		0			600.7	1277.9
2013	15-Nov-13	2	392.5	159.4		0			524.2	1059.9
2013	15-Nov-13	3	694.5	145.5		0			723.7	1842.4
2013	15-Nov-13	4	1188.8	446.8		0			962.3	3072.4
2013	15-Nov-13	5	1377.8	729.1		0			944.7	2707.3
2013	15-Nov-13	6	1407.3	1289.2		0			1061.9	1992.2
2013	15-Nov-13	7	1422.7	1063.7		20.2			945	1890.7
2013	15-Nov-13	8	1585.2	1177.8		9			875.2	2430.8
2013	15-Nov-13	9	1001.6	891.2		3.2			1123.5	2661.9
2013	15-Nov-13	10	1074	618.1		0			1204.5	2327.8
2013	15-Nov-13	11	1022.9	326.5		0			1141.4	2252
2013	15-Nov-13	12	942.4	357.7		0			945.3	1815.7
2013	15-Nov-13	13	687.8	286.8		0			973	1478.6
2013	15-Nov-13	14	497.1	209		0			889.2	1624.9
2013	15-Nov-13	15	362.5	139.6		0			832.2	1641.8
2013	15-Nov-13	16	309.2	236.8		0			902.5	1804.8
2013	15-Nov-13	17	590.5	223.7		0			1007.6	1935.2
2013	15-Nov-13	18	668.4	519.5		0			852.1	1849.8
2013	15-Nov-13	19	423.7	222.1		0			839.9	1743.4
2013	15-Nov-13	20	319.1	222.1		0			818.2	1703.1
2013	15-Nov-13	21	368.6	129.6		0			663.8	1707.5
2013	15-Nov-13	22	224.4	253.6		0			677.6	1560.8
2013	15-Nov-13	23	153.6	316.1		0			692	1474.5
2013	16-Nov-13	0	192.7	447.7		0			638.7	1465.2
2013	16-Nov-13	1	273.1	374.1		0			764.2	1691.1
2013	16-Nov-13	2	172.9	310		0			702.5	1432.7
2013	16-Nov-13	3	152.1	273.5		0			687.2	1506
2013	16-Nov-13	4	222.6	322.1		0			784.3	1480.7
2013	16-Nov-13	5	478.6	257.6		0			723	1448.7
2013	16-Nov-13	6	438.2	384.5		0			684.4	1456.9
2013	16-Nov-13	7	907	584.3		16.7			517.8	1612.3
2013	16-Nov-13	8	1161.5	1651.2		2.1			525.1	1581.2
2013	16-Nov-13	9	854.3	688.8		15.4			563	1644.1
2013	16-Nov-13	10	952.3	1078.1		11.1			606.6	1608.7
2013	16-Nov-13	11	1189.4	898.7		1.8			642.2	1580.2
2013	16-Nov-13	12	1284	1120.4		0			703.9	1510.5
2013	16-Nov-13	13	1197.9	956.3		0			774.4	1526.3
2013	16-Nov-13	14	1252.6	1142.9		0			811.5	1500.9
2013	16-Nov-13	15	1218.8	952.2		0			877.6	1553.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Nov-13	16	1333.6	1109.2		0			886.6	1691.8
2013	16-Nov-13	17	1347.7	950		0			1444.7	2332.1
2013	16-Nov-13	18	1143.5	984.8		0			1572	1965.5
2013	16-Nov-13	19	996	686.3		0			1561.8	2168
2013	16-Nov-13	20	948	673.3		0			1323.2	1828.7
2013	16-Nov-13	21	788.3	316.8		0			1223.1	2199.9
2013	16-Nov-13	22	715	175.8		0			1009.2	2146.7
2013	16-Nov-13	23	642	272.6		0			837.4	1962.7
2013	17-Nov-13	0	589.7	343.5		0			702.4	2048.5
2013	17-Nov-13	1	685	277		0			803.8	2140.1
2013	17-Nov-13	2	505.6	276.2		0			889.1	1935.6
2013	17-Nov-13	3	410.1	252.7		0			839.7	1484.6
2013	17-Nov-13	4	430.7	283.9		0			810.4	1409.6
2013	17-Nov-13	5	475.5	264		0			794.2	1419.1
2013	17-Nov-13	6	394	299.7		0			663.6	1404.5
2013	17-Nov-13	7	369.8	330.4		15.5			655.7	1423.6
2013	17-Nov-13	8	363.4	449.1		2.8			688.3	1372.1
2013	17-Nov-13	9	364.8	317.8		3.9			805.6	1621
2013	17-Nov-13	10	317.1	338.3		0			886	1890.2
2013	17-Nov-13	11	325.5	320.6		0			892	2117.7
2013	17-Nov-13	12	373.7	321.3		0			940.8	1990.5
2013	17-Nov-13	13	418.3	324.8		0			897.4	1712.6
2013	17-Nov-13	14	351.8	335.7		0			934.8	1559.1
2013	17-Nov-13	15	325.6	330.6		0			872.1	1518.9
2013	17-Nov-13	16	372.4	338.2		0			802.3	1472
2013	17-Nov-13	17	461.4	378.2		0			598.8	1704.1
2013	17-Nov-13	18	401.9	333.7		0			533.7	1982.3
2013	17-Nov-13	19	384	397.1		0			636.8	1567.2
2013	17-Nov-13	20	414.9	395.9		0			668.7	1281.4
2013	17-Nov-13	21	393.3	374		0			610.4	1143.4
2013	17-Nov-13	22	383.9	390.3					577.6	1220.4
2013	17-Nov-13	23	360	421.5					572	1146.9
2013	18-Nov-13	0	363.8	460.2					551.5	1089.4
2013	18-Nov-13	1	362.4	501.6					557.7	1060.3
2013	18-Nov-13	2	350.6	511.5					544.6	1019.8
2013	18-Nov-13	3	344.7	513.7					538.9	1223.6
2013	18-Nov-13	4	359.4	506.6					517.2	1359.2
2013	18-Nov-13	5	353.8	505.2					538	1120.8
2013	18-Nov-13	6	423.8	741.5					645.1	1316.6
2013	18-Nov-13	7	544.4	785.9					943.2	2142
2013	18-Nov-13	8	559.9	410.7					670.2	1593.6
2013	18-Nov-13	9	205.3	561					601.6	1397.4
2013	18-Nov-13	10	163.9	483.9					625.7	1296.4
2013	18-Nov-13	11	155.6	389.4					870.4	1279.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	18-Nov-13	12	214.8	361.2					913.6	1207.1
2013	18-Nov-13	13	114.4	320.7					1008.3	1440.1
2013	18-Nov-13	14	253.7	385					1061.6	1420
2013	18-Nov-13	15	266	399.4					1030.5	1535.7
2013	18-Nov-13	16	265.6	369.6					1047.4	1521
2013	18-Nov-13	17	287.6	391.9					1095.8	1607.4
2013	18-Nov-13	18	272.4	392.9					1060.9	1737.5
2013	18-Nov-13	19	331.6	449.9					964.1	1841.2
2013	18-Nov-13	20	282.8	352.9					858.7	1572.3
2013	18-Nov-13	21	284	342.4					1013.8	1575.8
2013	18-Nov-13	22	273.1	340.7					877.9	1290.1
2013	18-Nov-13	23	281.3	339					751.7	1177.8
2013	19-Nov-13	0	294.9	346					913.4	1134.8
2013	19-Nov-13	1	286.5	389.7					1055	1152.9
2013	19-Nov-13	2	274.9	358.4					1052.5	1313.5
2013	19-Nov-13	3	287.9	336.3					1081.8	1379.3
2013	19-Nov-13	4	294.3	346.7					1216.9	1443.6
2013	19-Nov-13	5	292.8	326.8					1290.6	1466.3
2013	19-Nov-13	6	592.1	552.1					1507.9	1959.7
2013	19-Nov-13	7	1013.7	969.9					1786.4	2998.2
2013	19-Nov-13	8	686.8	991.6					1836	3202.2
2013	19-Nov-13	9	599.7	1000.5					977.8	2951
2013	19-Nov-13	10	437.2	509		0.78			693.6	2257.9
2013	19-Nov-13	11	437.8	552.9		0			555.2	1698.3
2013	19-Nov-13	12	253.2	451.2		12.4			530.5	1439.7
2013	19-Nov-13	13	184.8	337.3		12.5			567.6	1433.3
2013	19-Nov-13	14	108.1	406.3		1.8			535.3	1413.9
2013	19-Nov-13	15	85.1	378.1		0			497.7	1509.5
2013	19-Nov-13	16	104	590.1		0			774.6	1970.1
2013	19-Nov-13	17	241.5	924.6		0			928.5	2226.4
2013	19-Nov-13	18	408.6	1031		0			1031.4	2272.7
2013	19-Nov-13	19	585.8	1023.6		0			1074.9	2267.7
2013	19-Nov-13	20	610	1041.2		0			950.4	2258.5
2013	19-Nov-13	21	585	939		0			878.2	1692.3
2013	19-Nov-13	22	480.1	752.3		0			659.6	1315.2
2013	19-Nov-13	23	401.7	544.7		0			489.1	853.6
2013	20-Nov-13	0	327.9	429.3		0			427.1	494.4
2013	20-Nov-13	1	555.5	345.6		0			433.4	460.3
2013	20-Nov-13	2	439.9	290.9		0			421.8	455.1
2013	20-Nov-13	3	423.7	286.6		0			429.1	457.9
2013	20-Nov-13	4	394.4	258.1		0			455	474.4
2013	20-Nov-13	5	374.8	259		0			458.4	620
2013	20-Nov-13	6	678.3	576.8		0			490.6	1001.6
2013	20-Nov-13	7	872.5	999.3					743.1	1709

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	20-Nov-13	8	1005.4	957.7					949.6	1263
2013	20-Nov-13	9	619.3	671.6					848	2014.4
2013	20-Nov-13	10	842.9	387.6					670.2	1691.3
2013	20-Nov-13	11	514.7	224.9					641.4	1298.6
2013	20-Nov-13	12	352.4	198.4					563.2	1236.6
2013	20-Nov-13	13	583.9	160.4					678.2	1202.4
2013	20-Nov-13	14	498	165.9					613.7	1441.1
2013	20-Nov-13	15	618.4	287.5					720	2043.8
2013	20-Nov-13	16	1081.3	871.9					1209.6	2441.2
2013	20-Nov-13	17	1003.4	1208.8					1288.7	2636.1
2013	20-Nov-13	18	1061.3	967.8					1192.7	2795.2
2013	20-Nov-13	19	760.4	1088.2					1169.5	2846.5
2013	20-Nov-13	20	745.1	1104					1215.6	2835.7
2013	20-Nov-13	21	752.5	1064.5					1149.5	2667.7
2013	20-Nov-13	22	695.8	1022.1					959.3	2634
2013	20-Nov-13	23	884.5	564.2					667.7	2218.4
2013	21-Nov-13	0	921.8	362.8					448.9	1795.4
2013	21-Nov-13	1	703.7	292.1					432.4	1489.8
2013	21-Nov-13	2	467.5	258.9					442.3	1430.1
2013	21-Nov-13	3	405.1	219.3					555.9	1411.4
2013	21-Nov-13	4	465.6	282.6					877.7	1651.9
2013	21-Nov-13	5	869	534.3					1572.9	2632.9
2013	21-Nov-13	6	1155.8	1122.8					1533.7	2869.5
2013	21-Nov-13	7	1105.4	1023.5					1432.7	3023.5
2013	21-Nov-13	8	1130	1148.4					1512.7	3179.1
2013	21-Nov-13	9	1134.3	1127.2		0			1197.9	2982.5
2013	21-Nov-13	10	947.1	1057.3		0			1084.8	2986.1
2013	21-Nov-13	11	1119.6	1151.6		14			1153.7	2701.5
2013	21-Nov-13	12	540	1156.5		5.5			1121.1	2996.6
2013	21-Nov-13	13	284.9	1011.9		4.6			1179.7	2638.9
2013	21-Nov-13	14	324.1	775.35		0			1037.6	2175.7
2013	21-Nov-13	15	548.9			0			1020.6	2908.1
2013	21-Nov-13	16	751.9			0			1621.2	3206.8
2013	21-Nov-13	17	719			0			1295.4	3123.9
2013	21-Nov-13	18	761.1			0			1215.3	3100.1
2013	21-Nov-13	19	762.8			0			1245.7	2987.6
2013	21-Nov-13	20	753			0			1199.8	2957
2013	21-Nov-13	21	589.9			0			992.5	2470
2013	21-Nov-13	22	442.2			0			622.3	1973.1
2013	21-Nov-13	23	287.3			0			489.6	1712.5
2013	22-Nov-13	0	188.1			0			457.6	1730
2013	22-Nov-13	1	180.6			0			472.2	1765.6
2013	22-Nov-13	2	162.2			0			446.5	1772.9
2013	22-Nov-13	3	154			0			458.8	1766.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	22-Nov-13	4	148.8			0			469.4	1491.9
2013	22-Nov-13	5	142.3			0			574.6	1625.3
2013	22-Nov-13	6	119						517.1	2085.7
2013	22-Nov-13	7	120.1						522.2	2994.1
2013	22-Nov-13	8	311.7			3.75			709.3	3128.2
2013	22-Nov-13	9	369.9			18.1			745.5	2896.5
2013	22-Nov-13	10	373.7			10.2			745.2	2495.5
2013	22-Nov-13	11	376.8			5.1			952.9	1931.1
2013	22-Nov-13	12	374.4			0.7			1598.2	1626.9
2013	22-Nov-13	13	364.3			0			1434.8	1198.9
2013	22-Nov-13	14	352.1						1534.6	914.5
2013	22-Nov-13	15	359.9						695	874.5
2013	22-Nov-13	16	340.2						556.9	671.3
2013	22-Nov-13	17	364.4						605.7	563.2
2013	22-Nov-13	18	371.2						630.6	673
2013	22-Nov-13	19	363.4						549.4	659.4
2013	22-Nov-13	20	353.5			0			640.5	558.2
2013	22-Nov-13	21	356			0			548.7	509.9
2013	22-Nov-13	22	367.1			0			543.6	480.5
2013	22-Nov-13	23	367			0			537.4	465.6
2013	23-Nov-13	0	370.7			0			546.5	459.7
2013	23-Nov-13	1	364.2			0			815.5	456.8
2013	23-Nov-13	2	362.9			0			696.1	456.9
2013	23-Nov-13	3	368.8			0			567.2	472.5
2013	23-Nov-13	4	364.3			0			540	460.6
2013	23-Nov-13	5	361.9			0			540.9	456.5
2013	23-Nov-13	6	360.8			0			534.1	464.9
2013	23-Nov-13	7	313.4			13.5			600.8	920.2
2013	23-Nov-13	8	310.7			2.9			581.5	1140.3
2013	23-Nov-13	9	331.5			1.5			752.2	1329
2013	23-Nov-13	10	336.9			0			992.3	1959.1
2013	23-Nov-13	11	338.5			0			992	2184.8
2013	23-Nov-13	12	338.9						770.7	1125
2013	23-Nov-13	13	347.2						560.5	719.5
2013	23-Nov-13	14	346.3						532.9	524.5
2013	23-Nov-13	15	334.2						529.7	629.8
2013	23-Nov-13	16	367.5	0					526.2	649.4
2013	23-Nov-13	17	414.9	0	0.009				624.6	848.3
2013	23-Nov-13	18	465	0	0.045				613.1	1156.5
2013	23-Nov-13	19	491.1	2	0.065				606.6	987
2013	23-Nov-13	20	384.6	0	0.065				509.1	657.6
2013	23-Nov-13	21	386.2	0	0.065				528.5	487.4
2013	23-Nov-13	22	406.8	0	0.065				616	444.8
2013	23-Nov-13	23	365.7	0	0.065				600.9	444



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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	24-Nov-13	0	343.4	0	0.065				537	443.4
2013	24-Nov-13	1	335.6	0	0.064				523.1	529.4
2013	24-Nov-13	2	349.9	0	0.064				496.5	531
2013	24-Nov-13	3	351.4	0	0.064				497	444.2
2013	24-Nov-13	4	362.6	0	0.064				510.3	437.5
2013	24-Nov-13	5	372.4	15.2	0.064				513.1	435.2
2013	24-Nov-13	6	389.7	46.9	0.056				525.3	415.5
2013	24-Nov-13	7	365.7	49.9	0.049				601.7	539.5
2013	24-Nov-13	8	410.3	141.1	0.049				680.2	556.8
2013	24-Nov-13	9	358.5	226.9	0.049				774.9	649.8
2013	24-Nov-13	10	453.1	266.9	0.052				832	743.8
2013	24-Nov-13	11	391.2	343.3	0.064				773.4	655.2
2013	24-Nov-13	12	371.7	416.4	0.053				813.9	667
2013	24-Nov-13	13	330.6	663.9	0.049				688	609.8
2013	24-Nov-13	14	351.2	416.7	0.049				528.1	477.3
2013	24-Nov-13	15	476.3	475.8	0.063				642	542.6
2013	24-Nov-13	16	734.2	789.6	0.063				938	737
2013	24-Nov-13	17	929.4	1139.2	0.06				938.4	810.5
2013	24-Nov-13	18	916.5	1121.9	0.048				915	794
2013	24-Nov-13	19	1085.5	1172	0.048				916.6	777.4
2013	24-Nov-13	20	1045.7	1177	0.048				883.7	779.4
2013	24-Nov-13	21	797.5	1056.2	0.048				881.4	770.3
2013	24-Nov-13	22	659.9	1047.7	0.048				864.7	768.4
2013	24-Nov-13	23	640.4	1026.4	0.048				818.4	766.7
2013	25-Nov-13	0	503.6	558.4	0.054				695.9	702.2
2013	25-Nov-13	1	690.7	620.7	0.063				487.2	605.4
2013	25-Nov-13	2	795.2	1041.2	0.063				489.7	444.2
2013	25-Nov-13	3	576.1	952.8	0.059				538.2	500.6
2013	25-Nov-13	4	594.7	1082.2	0.048				813.2	674.1
2013	25-Nov-13	5	646.9	1064.6	0.048				909.7	786.2
2013	25-Nov-13	6	610.7	1007.8	0.048				898.4	784.4
2013	25-Nov-13	7	577.1	951.6	0.057				875.8	1023.5
2013	25-Nov-13	8	546.7	1407.5	0.063				898.4	971.2
2013	25-Nov-13	9	594.5	1380.9	0.05				881.1	843
2013	25-Nov-13	10	563	1325.9	0.048				863.3	1510.1
2013	25-Nov-13	11	545.2	1126.5	0.048				852.5	1732.5
2013	25-Nov-13	12	437.4	552.9	0.048				874.5	1662.7
2013	25-Nov-13	13	355.1	373.4	0.048				929.9	1423.9
2013	25-Nov-13	14	266	237.3	0.048				936.5	1147.7
2013	25-Nov-13	15	232.7	340	0.048				971.4	1230.3
2013	25-Nov-13	16	319.6	714.1	0.049				849	1488.5
2013	25-Nov-13	17	560.9	1058	0.048				902.9	1954.3
2013	25-Nov-13	18	572.4	1123.1	0.048				921.8	2181.9
2013	25-Nov-13	19	568.6	1110.1	0.048				850.4	2176.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	25-Nov-13	20	564.5	999.7	0.048				909.6	2203.5
2013	25-Nov-13	21	557.3	997.9	0.048				807.5	1884
2013	25-Nov-13	22	575	349.2	0.059				656.8	1507.4
2013	25-Nov-13	23	436.1	176.3	0.063				584.6	1337
2013	26-Nov-13	0	306.7	342.8	0.063				592.2	1298
2013	26-Nov-13	1	230.2	502.7	0.063				766.8	1366.7
2013	26-Nov-13	2	161.3	513.1	0.063				779.4	1409.6
2013	26-Nov-13	3	160.5	442.7	0.055				677.7	1288.6
2013	26-Nov-13	4	298.7	519.3	0.048				651.6	1495.7
2013	26-Nov-13	5	819.4	699.8	0.048				970.9	2009.3
2013	26-Nov-13	6	1213.5	1143.2	0.048				1075.6	2385.1
2013	26-Nov-13	7	513.6	1105.8	0.048				1020.7	2188.5
2013	26-Nov-13	8	402.1	1113.5	0.049				758.3	1927.9
2013	26-Nov-13	9	183	545.2	0.049				725.2	1788.7
2013	26-Nov-13	10	141.2	346.4	0.054				695.3	1478.5
2013	26-Nov-13	11	130.8	333.5	0.063				743.7	1782.6
2013	26-Nov-13	12	113	336.3	0.063				800.3	1987.4
2013	26-Nov-13	13	90.3	315.9	0.062				1167.2	2358.5
2013	26-Nov-13	14	74.4	254.1	0.049				956.4	2330.7
2013	26-Nov-13	15	114.3	183.7	0.048				662.5	1775.9
2013	26-Nov-13	16	263.3	194.3	0.048				701.4	1877.3
2013	26-Nov-13	17	676.2	569.4	0.049				1057.8	2547
2013	26-Nov-13	18	1247.1	1032.6	0.061				1055.2	2498.3
2013	26-Nov-13	19	1004.4	782.8	0.063				1018.1	2495.6
2013	26-Nov-13	20	748.6	430.7	0.05				651.4	2249.8
2013	26-Nov-13	21	854.1	288.1	0.057				495.1	1719.8
2013	26-Nov-13	22	951	543.4	0.063				505.2	1237.8
2013	26-Nov-13	23	778	464.2	0.06				525.3	1213.6
2013	27-Nov-13	0	610.7	369.3	0.048				605	1021.7
2013	27-Nov-13	1	604.8	378.5	0.05				528.1	1009
2013	27-Nov-13	2	565.9	360.6	0.062				515.3	1045.1
2013	27-Nov-13	3	516.9	363.8	0.062				497.5	1081.9
2013	27-Nov-13	4	503.5	363.6	0.062				496.6	909.4
2013	27-Nov-13	5	714.6	512.4	0.063				501.4	741
2013	27-Nov-13	6	1050.3	1316.3	0.062				507.2	749.1
2013	27-Nov-13	7	777.4	1223.3	0.062				507.9	745.7
2013	27-Nov-13	8	478.2	602.7	0.062				530	887.2
2013	27-Nov-13	9	354.8	297.5	0.062				557.3	1031.5
2013	27-Nov-13	10	335.9	221.3	0.062				688.4	1735.7
2013	27-Nov-13	11	383.3	393.3	0.062				792.4	1466.5
2013	27-Nov-13	12	320.8	307.4	0.062				789.6	1507.2
2013	27-Nov-13	13	283.7	306.7	0.062				871.2	1752
2013	27-Nov-13	14	239.2	314.6	0.062				812.1	1684.4
2013	27-Nov-13	15	341.1	291.4	0.062				637.2	1771.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Nov-13	16	370.5	373.7	0.055				749.7	1913.7
2013	27-Nov-13	17	636.2	616.1	0.048				879.3	1891.9
2013	27-Nov-13	18	558.6	588.5	0.048				809.8	1610.4
2013	27-Nov-13	19	404.7	430.5	0.061				882.8	1698.4
2013	27-Nov-13	20	617.2	590.1	0.062				888.7	2064
2013	27-Nov-13	21	620	494	0.062				899.6	2380.5
2013	27-Nov-13	22	414.9	293.8	0.058				987.1	2434.8
2013	27-Nov-13	23	434.9	232	0.048				945.5	2400.4
2013	28-Nov-13	0	553.4	205.2	0.048				754.1	1614.2
2013	28-Nov-13	1	477	150.1	0.048				645	836.3
2013	28-Nov-13	2	474.1	125.4	0.06				511.2	583
2013	28-Nov-13	3	496	147.3	0.062				557.5	37.668
2013	28-Nov-13	4	674.9	286.4	0.062				815.8	
2013	28-Nov-13	5	833.4	486.6	0.048				1087	
2013	28-Nov-13	6	1003.2	989.5	0.048				1392.3	
2013	28-Nov-13	7	1070.3	1077.6	0.048				1815.6	
2013	28-Nov-13	8	1130.1	1454	0.048				1467.4	
2013	28-Nov-13	9	1043.4	1082.9	0.048				1270.7	
2013	28-Nov-13	10	889.8	849.8	0.048				962.2	
2013	28-Nov-13	11	593.2	767.3	0.048				714.8	
2013	28-Nov-13	12	597.3	402.7	0.058				527.1	
2013	28-Nov-13	13	711.9	313	0.063				506.9	
2013	28-Nov-13	14	704.2	285.4	0.063				479.1	
2013	28-Nov-13	15	775.2	519.3	0.062				487.6	
2013	28-Nov-13	16	513.4	527.3	0.049				489.2	
2013	28-Nov-13	17	558.7	512.7	0.049				486.7	
2013	28-Nov-13	18	560.8	542.7	0.049				500.6	
2013	28-Nov-13	19	597.2	554.1	0.049				649.3	
2013	28-Nov-13	20	620.5	521.3	0.049				758.3	
2013	28-Nov-13	21	536.8	491.1	0.063				654	
2013	28-Nov-13	22	309.1	298.2	0.063				598.4	
2013	28-Nov-13	23	621.3	257	0.053				675.2	
2013	29-Nov-13	0	606	541.4	0.049				642	
2013	29-Nov-13	1	383.4	647.3	0.049				596.3	
2013	29-Nov-13	2	429.7	627.1	0.049				584.7	
2013	29-Nov-13	3	712.2	955.1	0.05				470.9	
2013	29-Nov-13	4	1007.5	589.5	0.063				355.4	
2013	29-Nov-13	5	1305.6	853.2	0.063				311.6	
2013	29-Nov-13	6	1441.8	1052.5	0.055				215.924	
2013	29-Nov-13	7	1388.8	853.6	0.049					
2013	29-Nov-13	8	1470.9	1133.8	0.049					
2013	29-Nov-13	9	990.8	1052.6	0.049					
2013	29-Nov-13	10	725	723	0.049					
2013	29-Nov-13	11	595.5	369.5	0.049					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	29-Nov-13	12	548.5	615	0.049					
2013	29-Nov-13	13	326	561.1	0.049					
2013	29-Nov-13	14	298.4	572.2	0.049					
2013	29-Nov-13	15	278.1	601.3	0.049					
2013	29-Nov-13	16	683.6	881.2	0.049					
2013	29-Nov-13	17	926.4	643.2	0.053					
2013	29-Nov-13	18	722.8	430.9	0.063					
2013	29-Nov-13	19	491.2	291.7	0.054					
2013	29-Nov-13	20	313.8	539	0.049					
2013	29-Nov-13	21	578.8	450.1	0.049					
2013	29-Nov-13	22	526.4	386.5	0.049					
2013	29-Nov-13	23	479.9	332.1	0.053					
2013	30-Nov-13	0	476	323.7	0.063					
2013	30-Nov-13	1	477.2	411.9	0.049					
2013	30-Nov-13	2	474.1	362.2	0.049					
2013	30-Nov-13	3	576.2	535.8	0.049					
2013	30-Nov-13	4	802.7	689.3	0.049					
2013	30-Nov-13	5	1081.1	1019.4	0.049					
2013	30-Nov-13	6	1171.7	1133.4	0.049					
2013	30-Nov-13	7	1168.2	956.3	0.049					
2013	30-Nov-13	8	1163.1	1307.5	0.049					
2013	30-Nov-13	9	979.3	731.1	0.049					
2013	30-Nov-13	10	907.4	555.8	0.049					
2013	30-Nov-13	11	706.1	398.5	0.049					
2013	30-Nov-13	12	637.2	365.3	0.049					
2013	30-Nov-13	13	570.2	298	0.049					
2013	30-Nov-13	14	368.4	266.1	0.049					
2013	30-Nov-13	15	308.6	244.9	0.049					
2013	30-Nov-13	16	298.6	226	0.049					
2013	30-Nov-13	17	304.5	279	0.049					
2013	30-Nov-13	18	280.2	222.1	0.049					
2013	30-Nov-13	19	228.5	229.8	0.049	0				
2013	30-Nov-13	20	196.2	243.8	0.049	7.4				
2013	30-Nov-13	21	162.8	202.4	0.049	3				
2013	30-Nov-13	22	284.2	233.7	0.047	2.2				
2013	30-Nov-13	23	454.5	198.3		0				
2013	1-Dec-13	0	387.9	166.5		0				
2013	1-Dec-13	1	405.2	192.3		0				
2013	1-Dec-13	2	388.9	188.9		0				
2013	1-Dec-13	3	387.5	187.4		0				
2013	1-Dec-13	4	378.6	176.2		0				
2013	1-Dec-13	5	380.6	189.2		0				
2013	1-Dec-13	6	372.7	154.8		0				
2013	1-Dec-13	7	402.8	153.8		13				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	1-Dec-13	8	390.7	198.2		5.3				
2013	1-Dec-13	9	398.9	165.7		3.3				
2013	1-Dec-13	10	403.6	179.1		0				
2013	1-Dec-13	11	411.6	171.3		0				
2013	1-Dec-13	12	409.1	161.7		0				
2013	1-Dec-13	13	409.1	138.8		0				
2013	1-Dec-13	14	416.9	128.8		0				
2013	1-Dec-13	15	421	103.2		0				
2013	1-Dec-13	16	432	125.3		0				
2013	1-Dec-13	17	542.8	183.6		0				
2013	1-Dec-13	18	588.2	192.2		0				
2013	1-Dec-13	19	540.2	183.3		0				
2013	1-Dec-13	20	534.9	172.6		0				
2013	1-Dec-13	21	447.5	129.6		0				
2013	1-Dec-13	22	433.8	127.8		0				
2013	1-Dec-13	23	435.2	136.6		0				
2013	2-Dec-13	0	436.3	318.7		0				
2013	2-Dec-13	1	426.3	368.8		0				
2013	2-Dec-13	2	427.2	348.8		0				
2013	2-Dec-13	3	413.5	404.8		0				
2013	2-Dec-13	4	397.6	401.6		0				
2013	2-Dec-13	5	473.9	520.1		0				
2013	2-Dec-13	6	655.3	704.9		0				
2013	2-Dec-13	7	623.9	441.4		10.9				
2013	2-Dec-13	8	566.7	446.1		3.2				
2013	2-Dec-13	9	395.2	290.9		0.5				
2013	2-Dec-13	10	306	241		0				
2013	2-Dec-13	11	341.1	224.1		0				
2013	2-Dec-13	12	313.1	189.3		0				
2013	2-Dec-13	13	256	175.7		0				
2013	2-Dec-13	14	215.5	162.5		0				
2013	2-Dec-13	15	203.4	161.3		0				
2013	2-Dec-13	16	190.2	170.1		0				
2013	2-Dec-13	17	199.5	172.9		0				
2013	2-Dec-13	18	191.3	167.9		0				
2013	2-Dec-13	19	372	150.7		0				
2013	2-Dec-13	20	367.2	154.8		0				
2013	2-Dec-13	21	417.3	160.8						
2013	2-Dec-13	22	416.5	163.4		0				
2013	2-Dec-13	23	412.1	274.4		0				
2013	3-Dec-13	0	398.8	434.5		9.3				
2013	3-Dec-13	1	392.8	413		3.1				
2013	3-Dec-13	2	394.8	411.1		2.2				
2013	3-Dec-13	3	406	426		0				

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	3-Dec-13	4	404.2	405		0				
2013	3-Dec-13	5	451.9	415.2		0				
2013	3-Dec-13	6	655.3	591.9		0				
2013	3-Dec-13	7	767.7	400.8		13.3				
2013	3-Dec-13	8	864.7	470.1		30.9				
2013	3-Dec-13	9	858.2	391		47.3				
2013	3-Dec-13	10	819.8	324.9		46.5				
2013	3-Dec-13	11	863.5	258.4		0				
2013	3-Dec-13	12	818.3	200.2		0				
2013	3-Dec-13	13	854.3	168.4		0				
2013	3-Dec-13	14	846.7	417.6		0				
2013	3-Dec-13	15	888.4	422.9		0				
2013	3-Dec-13	16	801.6	368.1		35.2				
2013	3-Dec-13	17	830.3	389.9		30.2				
2013	3-Dec-13	18	770.1	386.7		20.9				
2013	3-Dec-13	19	882.9	419.8		0				
2013	3-Dec-13	20	580.5	398.5		0				
2013	3-Dec-13	21	507.7	400.2		0				
2013	3-Dec-13	22	467.3	380		0				
2013	3-Dec-13	23	325.8	379.3		0				
2013	4-Dec-13	0	297.6	374		0				
2013	4-Dec-13	1	285.1	360.1		0				
2013	4-Dec-13	2	295.5	372.5		0				
2013	4-Dec-13	3	297.7	389.9		0				
2013	4-Dec-13	4	346	391.7		0				
2013	4-Dec-13	5	317.3	422.6		0				
2013	4-Dec-13	6	568.1	744.4		0				
2013	4-Dec-13	7	361.9	575.1						
2013	4-Dec-13	8	391	706.8						
2013	4-Dec-13	9	226.6	639.2		0.504				
2013	4-Dec-13	10	197.4	627.6		0				
2013	4-Dec-13	11	220.7	557.4		10.2				
2013	4-Dec-13	12	215.3	582.7		5.2				
2013	4-Dec-13	13	215.8	660.5		2.1				
2013	4-Dec-13	14	184.9	672.4		0				
2013	4-Dec-13	15	193	656.5		0				
2013	4-Dec-13	16	350.5	698.4		0				
2013	4-Dec-13	17	543.9	655.9						
2013	4-Dec-13	18	925.4	782.5						
2013	4-Dec-13	19	768.9	818		0				
2013	4-Dec-13	20	947	880.1		0				
2013	4-Dec-13	21	1057.7	828.9		8.3				
2013	4-Dec-13	22	725.5	696.7		5.3				
2013	4-Dec-13	23	467.8	427.1		1.6				

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	5-Dec-13	0	346.8	292.7		0				
2013	5-Dec-13	1	504.4	530.2		0				
2013	5-Dec-13	2	444.8	444.7		0				
2013	5-Dec-13	3	337.9	373.9		0				
2013	5-Dec-13	4	322.2	378		0				
2013	5-Dec-13	5	309.1	382.2		0				
2013	5-Dec-13	6	309.8	389.4		0				
2013	5-Dec-13	7	295.5	382.7		12				
2013	5-Dec-13	8	295.3	378.5		3.8				
2013	5-Dec-13	9	311.4	398.4		2.3				
2013	5-Dec-13	10	370.2	402.2		0				
2013	5-Dec-13	11	414.6	397.1		0				
2013	5-Dec-13	12	412.5	402.2		0				
2013	5-Dec-13	13	411.7	406.8		0				
2013	5-Dec-13	14	423.5	386.7		0				
2013	5-Dec-13	15	412.7	395.2		0				
2013	5-Dec-13	16	524.2	504.1		0				
2013	5-Dec-13	17	669.6	588.8		0				
2013	5-Dec-13	18	1062.2	765.8		0				
2013	5-Dec-13	19	1068.8	796.9		0				
2013	5-Dec-13	20	1142.5	820		0	0			
2013	5-Dec-13	21	888.7	761.6		0	0			
2013	5-Dec-13	22	620.9	591.2		0	0			
2013	5-Dec-13	23	453.3	419.4		0	81.2			
2013	6-Dec-13	0	352.8	303.2		0	273.1			
2013	6-Dec-13	1	236.2	253.5		0	437.3			
2013	6-Dec-13	2	386.2	187.7		0	373			
2013	6-Dec-13	3	400.9	152.6		0	237.2			
2013	6-Dec-13	4	376.9	150.1		0	203.9			
2013	6-Dec-13	5	395.9	148.3		0	197			
2013	6-Dec-13	6	405.9	150		0	288.8			
2013	6-Dec-13	7	357.7	140.4		8.4	320.2			
2013	6-Dec-13	8	353.3	146.8		0	403			
2013	6-Dec-13	9	291.8	111		0	451			
2013	6-Dec-13	10	281.9	85.9		0	779.8			
2013	6-Dec-13	11	289.4	204.2		0	1093.4			
2013	6-Dec-13	12	255.4	221.8		0	1848.7			
2013	6-Dec-13	13	208.1	130.6		0	2120.9			
2013	6-Dec-13	14	197	140.9		0	2143.4			
2013	6-Dec-13	15	254	258.5			2117.5			
2013	6-Dec-13	16	630.8	532.8		0	2145.7			
2013	6-Dec-13	17	655	696.1		7.2	2166.1			
2013	6-Dec-13	18	478.4	607.2		2.2	2169			
2013	6-Dec-13	19	453.4	557.6		1.1	2016.8			

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Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	6-Dec-13	20	529.9	532		0	718.7			
2013	6-Dec-13	21	429	358.3		0	410.3			
2013	6-Dec-13	22	290.5	261.2		0	418.7			
2013	6-Dec-13	23	224.6	224.2		0	379.9			
2013	7-Dec-13	0	163.9	258.4		0	462.6			
2013	7-Dec-13	1	198.1	132.8		0	1093.3			
2013	7-Dec-13	2	158.1	88.9		0	1834.7			
2013	7-Dec-13	3	120.8	112.5		0	2233			
2013	7-Dec-13	4	109.9	99.7		0	2285.6			
2013	7-Dec-13	5	103.7	82.4		0	2205.8			
2013	7-Dec-13	6	98.7	75.5		0	2208.6			
2013	7-Dec-13	7	98.5	88.9		13.4	2192.5			
2013	7-Dec-13	8	90.2	84.4		3	2378.2			
2013	7-Dec-13	9	89.2	68.8		2	2571.8			
2013	7-Dec-13	10	119.3	153.9		0	3026.3			
2013	7-Dec-13	11	103	111.9		0	2908.7			
2013	7-Dec-13	12	84.3	68.2		0	2492.1			
2013	7-Dec-13	13	93.8	79.9		0	2363			
2013	7-Dec-13	14	181	106.6		0	2215.9			
2013	7-Dec-13	15	128.9	72.1		0	2213.6			
2013	7-Dec-13	16	96.6	70.8		0	2319.2			
2013	7-Dec-13	17	180.2	95.4		0	2736.4			
2013	7-Dec-13	18	401.3	71.7		0	3082.7			
2013	7-Dec-13	19	329.4	60.1		0	3325.8			
2013	7-Dec-13	20	310.5	57.3		0	3310.2			
2013	7-Dec-13	21	299.3	56.4		0	3317.2			
2013	7-Dec-13	22	286.6	56.9		0	3315.9			
2013	7-Dec-13	23	286.3	56.7		0	3252.8			
2013	8-Dec-13	0	301.5	64.9		0	3115.3			
2013	8-Dec-13	1	305	58.7		0	3108.8			
2013	8-Dec-13	2	330.7	58.7		0	3352.9			
2013	8-Dec-13	3	310.6	65.2		0	3263			
2013	8-Dec-13	4	326.9	58.4		0	2955.4			
2013	8-Dec-13	5	319.8	67.9		0	2756.6			
2013	8-Dec-13	6	326.6	61		0	2443.6			
2013	8-Dec-13	7	325	53.7		1.8	2496.9			
2013	8-Dec-13	8	377.3	81.2		2.2	3116.4			
2013	8-Dec-13	9	421.4	141.1		1.4	3766.2			
2013	8-Dec-13	10	524.2	240.5		2	3862.9			
2013	8-Dec-13	11	685.6	863.7		1.3	3820.9			
2013	8-Dec-13	12	738.1	812.7		2.3	3798.5			
2013	8-Dec-13	13	681.7	817.2		1.3	3816			
2013	8-Dec-13	14	802	731.3		0	3813.4			
2013	8-Dec-13	15	802.2	747.7		86.3	3790.3			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	8-Dec-13	16	804.8	904.9		321.7	3802.4			
2013	8-Dec-13	17	782.1	826.9		482.3	3807.6			
2013	8-Dec-13	18	788.7	888.6		595.6	3828.2			
2013	8-Dec-13	19	951.7	834		607.7	3805.9			
2013	8-Dec-13	20	968.7	811.9		589.2	3780.9			
2013	8-Dec-13	21	927	714		590	3791.8			
2013	8-Dec-13	22	912.7	788.7		590.6	3820.9			
2013	8-Dec-13	23	880.1	691.8		590.5	3801.7			
2013	9-Dec-13	0	900.2	678.6		612.8	3780.3			
2013	9-Dec-13	1	670.8	521.5		545.8	3637.8			
2013	9-Dec-13	2	451.1	297.5		550.8	3318.4			
2013	9-Dec-13	3	256.2	166.6		594.8	2952.9			
2013	9-Dec-13	4	139.6	105.5		574.1	2603.5			
2013	9-Dec-13	5	100.8	92.9		536.8	2607.3			
2013	9-Dec-13	6	150.1	286.6		645.3	3135.6			
2013	9-Dec-13	7	357.4	472.8		960.6	3665.1			
2013	9-Dec-13	8	644.7	755.5		949.9	3776.8			
2013	9-Dec-13	9	728.9	680.1		1087.5	3772.2			
2013	9-Dec-13	10	876.2	709.8		1129.7	3796.3			
2013	9-Dec-13	11	906.5	698.5		1133.8	3801.5			
2013	9-Dec-13	12	861.8	701.3		1157.3	3799.2			
2013	9-Dec-13	13	796.5	643.2		1239.8	3756.3			
2013	9-Dec-13	14	539	430.2		784.6	3518.3			
2013	9-Dec-13	15	365.3	279.5		580.9	3520.2			1.425
2013	9-Dec-13	16	398.5	203.9		914.3	3811.1			4.8
2013	9-Dec-13	17	757.2	281.9		1302.6	3821.5			1.6
2013	9-Dec-13	18	707.3	333.5		1254.3	3764.7			1.5
2013	9-Dec-13	19	628	310.5		1328.2	3792.8			1.3
2013	9-Dec-13	20	793.8	376.5		1318	3802.3			1.4
2013	9-Dec-13	21	871	403.8		1178.6	3707			1.6
2013	9-Dec-13	22	432.2	248.4		1103.5	3400.2			1.6
2013	9-Dec-13	23	724	158.7		1159.4	3426.6			1.8
2013	10-Dec-13	0	695.6	115.3		1146.3	3199.1			1.6
2013	10-Dec-13	1	509.8	94.8		945.3	2676.7			1.4
2013	10-Dec-13	2	440.6	80.1		604.3	2388.8			5.6
2013	10-Dec-13	3	423.7	69.6		557.8	2146.2			36.8
2013	10-Dec-13	4	422.7	78.2		554.7	2160.2			122.2
2013	10-Dec-13	5	421.9	81.7		551.5	2245.7			304.1
2013	10-Dec-13	6	421.9	60.5		572.9	2616.8			452.3
2013	10-Dec-13	7	439.7	62.3		1075.6	3157.6			591.7
2013	10-Dec-13	8	434.5	66.9		1472.5	3449.2			647.8
2013	10-Dec-13	9	435.2	56.9		1536.8	3744.6			797.1
2013	10-Dec-13	10	449.7	62.8		1378.8	3755.6			818.9
2013	10-Dec-13	11	470.1	58		1308	3746.7			847.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	10-Dec-13	12	484.3	61.9		1354.1	3773.7			893.6
2013	10-Dec-13	13	530.5	68.5		1383.8	3792.2			956.5
2013	10-Dec-13	14	459.8	58.6		1127.4	3710			861.6
2013	10-Dec-13	15	433.1	58.1		720.1	3625.8			718.7
2013	10-Dec-13	16	491.8	62.4		658.8	3645			633.2
2013	10-Dec-13	17	1214.5	175.6		1263.3	3806.3			842.2
2013	10-Dec-13	18	517.3	207.2		1418.9	3783.1			933.8
2013	10-Dec-13	19	538	265.7		1403	3767.4			940.2
2013	10-Dec-13	20	570.3	289.5		1386.9	3766.3			889.8
2013	10-Dec-13	21	627.6	323.3		1410.1	3777.1			881.2
2013	10-Dec-13	22	404.4	210.1		1105.7	3588.1			777.8
2013	10-Dec-13	23	200.6	119		648.6	3559.8			698.4
2013	11-Dec-13	0	130.1	79.1		635.7	3679			696.8
2013	11-Dec-13	1	296.4	65.5		616	3567.1			644.1
2013	11-Dec-13	2	422.6	68.5		588	3427.5			524.3
2013	11-Dec-13	3	445	64.7		621.1	3168.7			547.9
2013	11-Dec-13	4	667.8	173.9		984.6	3485.6			776.4
2013	11-Dec-13	5	678.2	594.2		1361.2	3758.3			922.5
2013	11-Dec-13	6	887	777		1449.8	3727.8			908.4
2013	11-Dec-13	7	931	695.7		1477.5	3700.3			874.1
2013	11-Dec-13	8	957.9	770.5		1469.4	3759.3			870.9
2013	11-Dec-13	9	721.5	573.9		1396.8	3758.7			830.9
2013	11-Dec-13	10	445.9	458.8		1325.8	3759.8			813.6
2013	11-Dec-13	11	281.7	312.7		849.5	3756.4			678.6
2013	11-Dec-13	12	211.3	236.3		616.7	3756.6			560.7
2013	11-Dec-13	13	147.5	171		600.7	3758.6			480.7
2013	11-Dec-13	14	132.2	130.6		607.6	3598.3			475.8
2013	11-Dec-13	15	119.5	158		610.4	3371.1			467.8
2013	11-Dec-13	16	131.4	133.9		625.7	3286.5			482.8
2013	11-Dec-13	17	342.8	264.1		939.8	3692.2			711.1
2013	11-Dec-13	18	1135.6	899.6		1435.9	3767.8	0.057		859.2
2013	11-Dec-13	19	708.9	890.8		1467.1	3746.5	0.062		898.5
2013	11-Dec-13	20	815.7	943.9		1509.8	3752.3	0.085		860.2
2013	11-Dec-13	21	768.2	769.3		1507.3	3746	0.094		819.2
2013	11-Dec-13	22	504.7	614		1027.8	3566.4	258.066		736
2013	11-Dec-13	23	357.4	422.8		690.4	3389	341.306		681
2013	12-Dec-13	0	670.7	457.1		700	3050.2	338.785		609.1
2013	12-Dec-13	1	499.3	583.1		663	2932.7	405.407		579.2
2013	12-Dec-13	2	361.9	412.6		649.8	2954.8	0.083		563.6
2013	12-Dec-13	3	311.8	338.6		618.5	2794.9	697.762		518.7
2013	12-Dec-13	4	573.5	532.9		663.3	2903.2	814.562		473.3
2013	12-Dec-13	5	811.8	669.5		854.8	3304.9	765.262		638.2
2013	12-Dec-13	6	1063.4	846.4		1547.3	3705.6	762.462		866.9
2013	12-Dec-13	7	1184.1	891.8		1579.7	3689.3	760.862		884

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	12-Dec-13	8	1391.8	948.5		1556.1	3738.4	806.946		901.6
2013	12-Dec-13	9	1312.4	806		1561.4	3752.5	678		902.4
2013	12-Dec-13	10	1346	926.3		1553.1	3758.9	618.3		869.8
2013	12-Dec-13	11	1220	746		1457	3707.6	621.5		821.5
2013	12-Dec-13	12	856.6	551.5		1111.4	3671.4	623.8		755.7
2013	12-Dec-13	13	589.7	460.8		1060.2	3658.1	624.7		683.6
2013	12-Dec-13	14	392.5	303		1240.5	3722.9	635		799
2013	12-Dec-13	15	644.7	496.6		1508.7	3722.9	633.3		869.6
2013	12-Dec-13	16	1375.5	882.4		1407.3	3706.6	624.2		840
2013	12-Dec-13	17	1386	1007.1		1535.3	3727	983		844.8
2013	12-Dec-13	18	1378.3	803		1537	3694.3	1965.1		814.6
2013	12-Dec-13	19	1483.9	1007.1		1528.1	3490.2	2122.6		809.4
2013	12-Dec-13	20	1481.1	1015.5		1503.9	2486.6	2293.1		827.3
2013	12-Dec-13	21	1430.5	1023.3		1517.5	2423.5	2211.1		816.5
2013	12-Dec-13	22	1428.8	1071.2		1519.3	3038.5	2295.1		808.5
2013	12-Dec-13	23	1525.8	1047.1		1522	3516.6	2307.6		803.9
2013	13-Dec-13	0	1506.8	1064.1		1516.2	3693.9	2305.7		794.2
2013	13-Dec-13	1	1473	1036.2		1518.9	3713.1	2305.1		784.2
2013	13-Dec-13	2	1491	1071.2		1517.4	3711.9	2317.4		736.3
2013	13-Dec-13	3	1542.7	1068.7		1523.2	3613.6	2350.2		687.1
2013	13-Dec-13	4	1396.6	1238.8		1527.7	2810.9	2227.5		678.7
2013	13-Dec-13	5	1436.4	1094.9		1534.9	1889.8	2273.6		608.4
2013	13-Dec-13	6	1406	1094.4		1543.1	17.6	2283.6		620
2013	13-Dec-13	7	1376.7	983.3		1578.7		2320.6		718.1
2013	13-Dec-13	8	1367.5	1173.5		1564.5		2346.7		782.2
2013	13-Dec-13	9	1411.3	1158.7		1561.8		2345.3		766.5
2013	13-Dec-13	10	1490.8	1164		1549.2		2343		633.2
2013	13-Dec-13	11	1441.3	1155.3		1538.6		2336.8		510.6
2013	13-Dec-13	12	1467.7	1149.6		1541.3		2335.3		429.4
2013	13-Dec-13	13	1500.1	1110.6		1541.4		2335.2		442.2
2013	13-Dec-13	14	1399.9	1109.5		1547.3		2339.9		436
2013	13-Dec-13	15	1425.2	1119.5		1546.9		2337.3		428.8
2013	13-Dec-13	16	1392.9	1067.8		1543.7		2336		449.6
2013	13-Dec-13	17	1433	1131.3		1543.7		2336.6		546.3
2013	13-Dec-13	18	1391.7	1104.8		1530.2		2337.6		462.5
2013	13-Dec-13	19	1427.3	1128.5		1512.1		2342		479.2
2013	13-Dec-13	20	1256.3	972.4		1193.3		2349.7		498.2
2013	13-Dec-13	21	986.6	813.7		754.4		1680.9		449.3
2013	13-Dec-13	22	894.2	835.2		642.6		668.5		473.9
2013	13-Dec-13	23	683.8	535.8		605.1		603.2		433
2013	14-Dec-13	0	520.5	465.3		584.7		321.555		443.6
2013	14-Dec-13	1	327.8	367.1		588.6				461.2
2013	14-Dec-13	2	276.8	304.3		591.2				470.5
2013	14-Dec-13	3	217	304.7		594.6				503.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	14-Dec-13	4	166.4	228		605.4				464
2013	14-Dec-13	5	146.8	175.5		606.8				439.2
2013	14-Dec-13	6	166.6	210.9		615.4				465
2013	14-Dec-13	7	491.6	422.4		1440.9				701.8
2013	14-Dec-13	8	1062.3	1160.7		1515.5				839.8
2013	14-Dec-13	9	1165.3	1018.3		1464.1				812
2013	14-Dec-13	10	1242.1	1169.7		1456.7				818.7
2013	14-Dec-13	11	1256.7	1158.5		1494.8				817
2013	14-Dec-13	12	1244.8	1121.1		1494.4				810.4
2013	14-Dec-13	13	1226.9	1203.5		1480.3				844.8
2013	14-Dec-13	14	1282.4	1210.4		1476.7				888.5
2013	14-Dec-13	15	1398.4	1328.7		1473.7				885.9
2013	14-Dec-13	16	879.2	1296.5		1466.3				961.2
2013	14-Dec-13	17	746.4	1395.9		1460.5				967.6
2013	14-Dec-13	18	932.6	1449.7		1451.2				900.4
2013	14-Dec-13	19	819.9	1033.8		1303.5				945.7
2013	14-Dec-13	20	912.1	1067		887				992.9
2013	14-Dec-13	21	1003.3	1304.4		945.2				1029.5
2013	14-Dec-13	22	854.3	999.2		941.2				846.8
2013	14-Dec-13	23	652	753.9		912.4				666.1
2013	15-Dec-13	0	527	636.3		841.8				703.3
2013	15-Dec-13	1	474	509.5		798.6				727.2
2013	15-Dec-13	2	421.9	411.8		598.7				564.6
2013	15-Dec-13	3	322.6	340.4		608.5				564.6
2013	15-Dec-13	4	267.5	285		610.7				580.3
2013	15-Dec-13	5	246.8	251.2		612.3				585.1
2013	15-Dec-13	6	252.2	241		614				575.9
2013	15-Dec-13	7	255.5	220.7		713.9				629
2013	15-Dec-13	8	289.1	225.1		832.3			0	858.6
2013	15-Dec-13	9	537.1	534.6		1458.6			0	1027.6
2013	15-Dec-13	10	916.1	1156.7		1477.4			0	927.6
2013	15-Dec-13	11	1219.4	1199.6		1478.7			19.6	926.6
2013	15-Dec-13	12	1207.8	1192.4		1487.2			38.6	962.4
2013	15-Dec-13	13	1104.8	1153		1498.2			41.3	958.6
2013	15-Dec-13	14	853.7	1101.3		1497			67.1	964.3
2013	15-Dec-13	15	808.6	1082.2		1507.1			53.3	965.5
2013	15-Dec-13	16	770	1042.3		1514.5			34.4	930.8
2013	15-Dec-13	17	753.1	1029		1530.2			34.1	865.1
2013	15-Dec-13	18	708.9	942.5		1517.1			47.3	827.9
2013	15-Dec-13	19	736.2	790.3		1433.7			62.5	798.6
2013	15-Dec-13	20	805.8	897.8		1517.1			78.7	831.9
2013	15-Dec-13	21	862.3	1099.7		1478.7	0		78.6	822.5
2013	15-Dec-13	22	704.2	937.6		1005.3	0		106.7	685.6
2013	15-Dec-13	23	540.3	755		668.8	0		228.9	551

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	16-Dec-13	0	547.3	559.3		617.8	0		335.9	421.8
2013	16-Dec-13	1	577	421.8		629.4	69.8		522	433.9
2013	16-Dec-13	2	387.9	331.8		627.8	335.5		550	432.3
2013	16-Dec-13	3	348.1	348.1		625.3	407.5		545.5	435.7
2013	16-Dec-13	4	346.9	359.4		628.5	523.5		555.6	429.9
2013	16-Dec-13	5	617.7	578.2		777	1271.8		662.9	528.1
2013	16-Dec-13	6	1100.1	1017.3		1230.9	1751		683.4	800.8
2013	16-Dec-13	7	1556.5	1082.6		1520.4	2098.1		846.7	955.4
2013	16-Dec-13	8	1083.4	919.7		1510.6	2614.8		797.7	972.4
2013	16-Dec-13	9	684.5	922.4		1509.1	3053.6		1005.6	980.2
2013	16-Dec-13	10	701.4	927.5		1511.9	3353.4		805.1	972.3
2013	16-Dec-13	11	706.3	1002.4		1450.5	3282.2		590.8	918.9
2013	16-Dec-13	12	524.4	695.7		1037	3155.3		463.7	775.7
2013	16-Dec-13	13	335.4	422.1		651.9	3035.9		477.7	637.1
2013	16-Dec-13	14	363.6	377.6		612	2814.1		497.1	491.2
2013	16-Dec-13	15	283.6	498.8		606.7	2669		512.2	469.7
2013	16-Dec-13	16	235.8	487.1		639.3	3114.5		558.2	591.4
2013	16-Dec-13	17	543.3	761.6		1064	3547.1		755.7	757.2
2013	16-Dec-13	18	615.6	1077.6		1398.9	3732.5		922	883.3
2013	16-Dec-13	19	588.9	646.7		1518	3749.6		723.6	896.5
2013	16-Dec-13	20	727.4	699		1510.9	3742.1		734.2	893.5
2013	16-Dec-13	21	844.2	745.6		1488.5	3699.1		832.2	865.4
2013	16-Dec-13	22	684.8	770.9		895.1	3450.8		601.8	749.9
2013	16-Dec-13	23	513.3	925.6		635.7	2985.9		450.1	625
2013	17-Dec-13	0	444.2	609.1		607.9	2642		470.5	633
2013	17-Dec-13	1	372.5	516		668.1	2750.5		479.3	978.4
2013	17-Dec-13	2	362.9	376.5		587.1	2549		501	901.8
2013	17-Dec-13	3	294.2	336		592.7	2442.8		473.6	787.7
2013	17-Dec-13	4	279.5	337.4		603.2	2589		476.4	878.9
2013	17-Dec-13	5	461	633.6		954.4	3325.2		723.2	956.3
2013	17-Dec-13	6	1282.6	1156.3		1512.9	3776.8		1033.6	1208.2
2013	17-Dec-13	7	1253.8	1360.1		1524	3723.2		1009.3	1374.8
2013	17-Dec-13	8	818.7	1364.3		1530.1	3730.2		990.9	1199.6
2013	17-Dec-13	9	781.1	1342.5		1516.1	3745.8		991.8	1143.3
2013	17-Dec-13	10	780.9	1314.6		1516.2	3765		982.5	1220.3
2013	17-Dec-13	11	794.6	1328.8		1503.4	3758.2		954.3	1642.5
2013	17-Dec-13	12	939.9	1314.2		1509.6	3773.1		973.4	1757.7
2013	17-Dec-13	13	1038.7	865.3		1509.7	3788.1		936.2	1685
2013	17-Dec-13	14	1246.2	1051.3		1511.7	3783.3		640.6	1403.5
2013	17-Dec-13	15	1364.5	1082.2		1514.6	3785.3		659.2	1204.2
2013	17-Dec-13	16	1416.2	1201.9		1521.4	3801		698	1118
2013	17-Dec-13	17	1544.6	1725.4		1538.5	3775.2		654.5	1073
2013	17-Dec-13	18	1653.6	1925		1537.8	3759.5		632.1	885.2
2013	17-Dec-13	19	1633.2	2067.8		1537.4	3774.9		633.7	923.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	17-Dec-13	20	1702.9	1416.6		1531.9	3781.9		613.8	997.9
2013	17-Dec-13	21	1345.6	1165.6		1433.6	3744		638.7	856.3
2013	17-Dec-13	22	620.8	851.8		875.3	3587.8		517.4	750.8
2013	17-Dec-13	23	373.7	623.3		656.5	3557.4		525.8	635.4
2013	18-Dec-13	0	372.9	668.5		626.9	3118		523.5	526.6
2013	18-Dec-13	1	387.4	446.1		644.3	2793.8		504.3	508
2013	18-Dec-13	2	409.6	345.5		643.6	2398.7		493.9	498.8
2013	18-Dec-13	3	390.7	329.5		645.2	2349.1		510.9	499.6
2013	18-Dec-13	4	388.8	347.7		642.5	2641.4		528.3	488.3
2013	18-Dec-13	5	760.6	623.7		957.2	3364.5		558.3	705.6
2013	18-Dec-13	6	814.6	1783.6		1490.4	3812.2		694.3	877.1
2013	18-Dec-13	7	756.1	2151.3		1515.8	3729.3		649.2	913.1
2013	18-Dec-13	8	657.9	2100		1455.5	3744.5		590.9	884.9
2013	18-Dec-13	9	673.9	883.9		912.2	3679.5		490	786.2
2013	18-Dec-13	10	435.8	540.8		683.8	3631.8		566.3	753.3
2013	18-Dec-13	11	466.8	352.2		599.2	3332.5		914.1	743.6
2013	18-Dec-13	12	309.6	269.4		602.2	3012		913.2	733.6
2013	18-Dec-13	13	221.3	216.9		607.4	3035.4		668.2	614.1
2013	18-Dec-13	14	236.1	229.1		596	2712.9		645	481.3
2013	18-Dec-13	15	274.1	515.5		600.1	2811.3		887.4	469.7
2013	18-Dec-13	16	263	670.6		613.7	2787.3		855.9	455.3
2013	18-Dec-13	17	474.5	765.9		890.7	3320.9		865.5	638.9
2013	18-Dec-13	18	992.2	706.8		1373.6	3701.6		840.8	770.9
2013	18-Dec-13	19	743	611.2		981.2	3719.3		786.5	687.1
2013	18-Dec-13	20	886.5	613.5		1311.6	3835.9		962.1	868.7
2013	18-Dec-13	21	700.2	558.2		1365.5	3813.5		887.8	864.6
2013	18-Dec-13	22	471	415		881.3	3590.4		705.9	773.2
2013	18-Dec-13	23	359.4	307.3		681.1	3432.2		527.7	674.6
2013	19-Dec-13	0	315	298		625.6	2981.6		381.3	532.7
2013	19-Dec-13	1	320.6	300.6		634.5	2531.1		358.6	433.5
2013	19-Dec-13	2	325.1	303.4		637.3	2542.5		122.5	444.7
2013	19-Dec-13	3	583	784.1		637	2606.9		43.6	436.7
2013	19-Dec-13	4	757	1619.4		891.5	2878.1		32.25	567
2013	19-Dec-13	5	1169.2	1987		1517.8	3750.7			884
2013	19-Dec-13	6	1038.4	2106.5		1501.2	3868.9			959.4
2013	19-Dec-13	7	1271.8	1962.5		1541.3	3818.4			936.7
2013	19-Dec-13	8	1227.2	1667.2		1539.3	3840.6			924.8
2013	19-Dec-13	9	1083.7	1811.7		1537.3	3842.9			909.5
2013	19-Dec-13	10	637.2	1105.6		1055.3	3645.9			756.8
2013	19-Dec-13	11	368	603.8		640.1	3252.7			571.8
2013	19-Dec-13	12	318.8	403.9		613.3	2848.4			448
2013	19-Dec-13	13	205.1	347.8		612.8	2428.8			407.6
2013	19-Dec-13	14	192.6	416.4		612.2	2284.7			403.9
2013	19-Dec-13	15	187.3	593		620.8	2285.6			397.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	19-Dec-13	16	562.7	1204.2		816.3	2773.6			570.6
2013	19-Dec-13	17	1246.6	1115.5		1495.6	3461.2			844.3
2013	19-Dec-13	18	694.6	858.7		1484.5	3697.7			875.8
2013	19-Dec-13	19	463.3	521.8		1220.9	3521.7			738.2
2013	19-Dec-13	20	270.8	314.6		864.7	3490.1			565.5
2013	19-Dec-13	21	196	228.2		679.1	3031.8			467.7
2013	19-Dec-13	22	238.3	202.2		664.1	2478.3			484.7
2013	19-Dec-13	23	173.8	192.5		661	2260			489.4
2013	20-Dec-13	0	174.3	190.1		686.9	2272			480.8
2013	20-Dec-13	1	161	187.7		705.1	2282.8			473.4
2013	20-Dec-13	2	160.2	186.4		793.6	2284.3			474.7
2013	20-Dec-13	3	160.3	193		898.5	2276.9			476.1
2013	20-Dec-13	4	250.8	261		1256.7	2509.9			613.4
2013	20-Dec-13	5	951.6	622.1		1534.9	3162.1			957.3
2013	20-Dec-13	6	794	1274.3		1522.3	3753.6			1006.2
2013	20-Dec-13	7	856.2	1388.6		1536.7	3735.4			975.8
2013	20-Dec-13	8	1375.1	1452.8		1511	3707.6			917
2013	20-Dec-13	9	840	866.3		1454.3	3339			745.1
2013	20-Dec-13	10	648	607.2		1310.8	2799.5			564.4
2013	20-Dec-13	11	627	385.9		1054.5	2395.3			427.2
2013	20-Dec-13	12	590.7	260.7		1226.7	2247.1			439.4
2013	20-Dec-13	13	588.9	215.4		1342.7	2252.4			437.1
2013	20-Dec-13	14	583.7	287.4		1425.2	2250.4			452.4
2013	20-Dec-13	15	575	374		1639	2244			446.1
2013	20-Dec-13	16	530.4	358.2		1679.1	2249.6			434.7
2013	20-Dec-13	17	443.3	362.5		1669	2511.8			450.6
2013	20-Dec-13	18	384.4	366.1		1595.8	2637.3			424.3
2013	20-Dec-13	19	262.5	361.8		1580.1	2309.4			431.3
2013	20-Dec-13	20	213.8	381.7		1566.9	2223.6			418.7
2013	20-Dec-13	21	314.2	377.7		1501.2	2214.5			446.6
2013	20-Dec-13	22	358.9	364.9		1481.3	2208.4			470.6
2013	20-Dec-13	23	335.7	365.5		1475.3	2219.1			495.6
2013	21-Dec-13	0	329.1	371.9		941.9	2219.5			510.8
2013	21-Dec-13	1	325.5	374.6		647.4	2210.9			552.7
2013	21-Dec-13	2	317.3	365.6		598.1	2204.4			506.2
2013	21-Dec-13	3	333.2	376.6		595.9	2209			418.9
2013	21-Dec-13	4	326.5	376.7		595.3	2213.4			399.3
2013	21-Dec-13	5	323.2	366.9		587	2211.7			385.3
2013	21-Dec-13	6	314.1	370.9		590.2	2208.5			221.4
2013	21-Dec-13	7	321.6	366.2		613	2169.2			95.5
2013	21-Dec-13	8	317.6	378.4		601.8	2206.1			81.7
2013	21-Dec-13	9	330.7	371.8		601	2199.8			11.988
2013	21-Dec-13	10	338.2	379.9		600.3	2198.1			
2013	21-Dec-13	11	337.4	410.3		606.9	2245.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	21-Dec-13	12	340.7	409.5		607.2	2211			
2013	21-Dec-13	13	346.7	400.6		605.3	2195.9			
2013	21-Dec-13	14	328.1	384.3		598.4	2203.4			
2013	21-Dec-13	15	342.4	378.3		600.1	2219.2			
2013	21-Dec-13	16	353.8	366.5		597.7	2253.5			
2013	21-Dec-13	17	344.6	365.2		596	2592.5			
2013	21-Dec-13	18	336	375.1		636.7	2793.4			
2013	21-Dec-13	19	354.7	385.4		601.8	2666			
2013	21-Dec-13	20	355.8	378.4		595.6	2272.4			
2013	21-Dec-13	21	330.7	377.3		595.5	2211.3			
2013	21-Dec-13	22	332.6	364.8		595.8	2197			
2013	21-Dec-13	23	332.5	366.5		588.5	2198.7			
2013	22-Dec-13	0	321.6	367.3		591.1	2215.6			
2013	22-Dec-13	1	336.2	393.6		591.3	2212.2			
2013	22-Dec-13	2	339.2	407.9		588.5	2201			
2013	22-Dec-13	3	347.8	410		588.2	2195.3			
2013	22-Dec-13	4	352	410.5		588.4	2192.1			
2013	22-Dec-13	5	364	421.7		586.6	2188			
2013	22-Dec-13	6	358.8	435.9		590	2209.3			
2013	22-Dec-13	7	365.1	422.9		611.1	2188.8			
2013	22-Dec-13	8	408.8	422		597.1	2200.1			
2013	22-Dec-13	9	357.6	421.9		600.9	2196.1			
2013	22-Dec-13	10	381.3	424.1		597.1	2201.3			
2013	22-Dec-13	11	373.3	412.8		588.3	2194.9			
2013	22-Dec-13	12	366.4	416.2		588.6	2192.4			
2013	22-Dec-13	13	349.5	408.2		594.1	2204.8			
2013	22-Dec-13	14	346.6	398.4		591	2212.5			
2013	22-Dec-13	15	332.5	392.4		590.3	2205.1			
2013	22-Dec-13	16	347.7	385.8		589.3	2206.1			
2013	22-Dec-13	17	323.7	386.4		590	2349.6			
2013	22-Dec-13	18	353.3	390.4		592	2283			
2013	22-Dec-13	19	319	397.6		585.1	2315.9			
2013	22-Dec-13	20	333.7	399.6		590.5	2220.6			
2013	22-Dec-13	21	345.6	399.9		595.7	2222.8			
2013	22-Dec-13	22	321.9	405.5		594.4	2220.4			
2013	22-Dec-13	23	332.3	402.3		596.5	2212			
2013	23-Dec-13	0	345.5	413.4		601.3	2208			
2013	23-Dec-13	1	324.3	403		602.9	2204.3			
2013	23-Dec-13	2	333	407		604.2	2213			
2013	23-Dec-13	3	337.4	409.1		606.9	2215.9			
2013	23-Dec-13	4	326.7	408.2		613.5	2214.2			
2013	23-Dec-13	5	594.9	889.6		618.6	2212.2			
2013	23-Dec-13	6	875.4	1584.6		611.1	2217.9			
2013	23-Dec-13	7	875.3	1348.9		616.7	2192.8			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	23-Dec-13	8	1327.4	1409		623.6	2218.7			
2013	23-Dec-13	9	1288.7	1443.5		669.2	2233.3			
2013	23-Dec-13	10	1319.7	1477		670.5	2252.5			
2013	23-Dec-13	11	1289.7	1458.2		672.7	2320.6			
2013	23-Dec-13	12	1368.3	1401.5		668.3	2403.8			
2013	23-Dec-13	13	1351.7	1515.2		663.2	2390			
2013	23-Dec-13	14	1073.9	1396		658.5	2389.8			
2013	23-Dec-13	15	875.6	855		658.5	2380.3			
2013	23-Dec-13	16	696.1	633		652.7	2386.7			
2013	23-Dec-13	17	575.9	497.9		624.5	2387.6			
2013	23-Dec-13	18	482.4	414.5		591.2	2382.5			
2013	23-Dec-13	19	460.3	370.5		581.1	2375.9			
2013	23-Dec-13	20	426	455.9		583.8	2385.9			
2013	23-Dec-13	21	404.6	1023.1		587.1	2397.6			
2013	23-Dec-13	22	445.5	1066.1		596.1	2407.1			
2013	23-Dec-13	23	719	1000.9		609.8	2366.8			
2013	24-Dec-13	0	1012.2	578.7		618.5	2232			
2013	24-Dec-13	1	579.4	302		621.4	2231.7			
2013	24-Dec-13	2	173.6	190.6		623.7	2227.9			
2013	24-Dec-13	3	92.2	126.9		629.3	2227			
2013	24-Dec-13	4	43.9	57.13		740.9	2407.5			
2013	24-Dec-13	5	23.1			1240.7	2784.7			
2013	24-Dec-13	6	72.4			1517.9	3241.3			
2013	24-Dec-13	7	144.6			1541	3631.7			
2013	24-Dec-13	8	260.6			1534.6	3702.2			
2013	24-Dec-13	9	288.5			1478.5	3715.1			
2013	24-Dec-13	10	195.7			1467.3	3720.1			
2013	24-Dec-13	11	119.8			1491.9	3714.6			
2013	24-Dec-13	12	88			1411.4	3573.1			
2013	24-Dec-13	13	69.5			1428.6	3596.6			
2013	24-Dec-13	14	74.5			1458.8	3675.1			
2013	24-Dec-13	15	297.9			1183.8	3444.1			
2013	24-Dec-13	16	651			1147.6	3404.4			
2013	24-Dec-13	17	690.1			1443.7	3741.4			
2013	24-Dec-13	18	653.4			1457.5	3757.6			
2013	24-Dec-13	19	734.4			1403.7	3782.7			
2013	24-Dec-13	20	776.9			1359.9	3764.4			
2013	24-Dec-13	21	792.2			1360.9	3738			
2013	24-Dec-13	22	807.8			1365.2	3743.9			
2013	24-Dec-13	23	755.6			1328.5	3747.8			
2013	25-Dec-13	0	520.8			997.8	3684.2			
2013	25-Dec-13	1	584.7			1297.7	3801.4			
2013	25-Dec-13	2	687.5			1530.5	3800.5			
2013	25-Dec-13	3	750.3			1503.1	3777			

2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	25-Dec-13	4	735.5			1500.6	3744.8			
2013	25-Dec-13	5	784.7			1493	3761.6			
2013	25-Dec-13	6	799.8			1501.7	3775.9			
2013	25-Dec-13	7	786.1			1495.1	3718.2			
2013	25-Dec-13	8	750.2			1486.5	3740.6			
2013	25-Dec-13	9	589			1487	3743.4			
2013	25-Dec-13	10	479.1			1449.4	3725.7			
2013	25-Dec-13	11	323.7			1352	3585.4			
2013	25-Dec-13	12	230			1132.5	3350			
2013	25-Dec-13	13	150.7			743.2	2963.5			
2013	25-Dec-13	14	115.2			664.4	2479.9			
2013	25-Dec-13	15	149.9			665.3	2213.3			
2013	25-Dec-13	16	345			664.2	2250.5			
2013	25-Dec-13	17	638.7			1170.9	2785.6			
2013	25-Dec-13	18	711.8			1444.4	3677.5			
2013	25-Dec-13	19	766.8			1509.5	3784.9			
2013	25-Dec-13	20	724.6			1525.3	3789.8			
2013	25-Dec-13	21	652.9			1530.2	3808.2			
2013	25-Dec-13	22	557.7			1526.8	3822			
2013	25-Dec-13	23	470.7			1530.7	3805.1			
2013	26-Dec-13	0	437.2			1539	3779.6			
2013	26-Dec-13	1	439.5			1525.7	3799.3			
2013	26-Dec-13	2	404.1			1538	3784.3			
2013	26-Dec-13	3	367.2			1534	3784.8			
2013	26-Dec-13	4	352.1			1521.3	3787.7			
2013	26-Dec-13	5	339.4			1519	3765.8			
2013	26-Dec-13	6	311.7			1525.8	3755.7			
2013	26-Dec-13	7	298.4			1542.3	3726			
2013	26-Dec-13	8	392			1541.5	3781.9			
2013	26-Dec-13	9	288			1529.1	3803.3			
2013	26-Dec-13	10	258.8			1494.5	3793.3			
2013	26-Dec-13	11	190.3			1459.9	3738.1			
2013	26-Dec-13	12	126.3			1184	3459.9			
2013	26-Dec-13	13	72.1			806.6	3144.4			
2013	26-Dec-13	14	56.3			673.4	2734.7			
2013	26-Dec-13	15	141			1314.3	3181.2			
2013	26-Dec-13	16	637.8			1581	3702.3			
2013	26-Dec-13	17	1099.4			1573.8	3815.3			
2013	26-Dec-13	18	1189.2			1566.5	3822.3			
2013	26-Dec-13	19	1385.8			1569.6	3820.5			
2013	26-Dec-13	20	971.5			1575.4	3825			
2013	26-Dec-13	21	742.4			1526.9	3846.5			
2013	26-Dec-13	22	504.3			1324.2	3785.1			
2013	26-Dec-13	23	444.8			797.4	3606.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	27-Dec-13	0	372.8			627.7	3369.4			
2013	27-Dec-13	1	476.1			617.1	3444.9			
2013	27-Dec-13	2	453.1			621.6	3455.1			
2013	27-Dec-13	3	789.2			1232.1	3698			
2013	27-Dec-13	4	1067.9			1572	3810			
2013	27-Dec-13	5	1086.6			1554.9	3778.8			
2013	27-Dec-13	6	1156.1			1545.4	3781.8			
2013	27-Dec-13	7	1274.9			1548.6	3736.6			
2013	27-Dec-13	8	1212			1543.4	3785.8			
2013	27-Dec-13	9	825.5			1513.1	3758.8			
2013	27-Dec-13	10	494.5			1091.1	3481.9			
2013	27-Dec-13	11	295.9			753.2	2932.1			
2013	27-Dec-13	12	455			624.1	2450.3			
2013	27-Dec-13	13	368.7			621.9	2231.1			
2013	27-Dec-13	14	298.8			642.3	2274.5			
2013	27-Dec-13	15	534.7			982	2685.7			
2013	27-Dec-13	16	1203.7			1556.1	3190.7			
2013	27-Dec-13	17	820.6			1587.8	3669.3			
2013	27-Dec-13	18	825.9			1575.6	3768.5			
2013	27-Dec-13	19	824.8			1534.8	3733.8			
2013	27-Dec-13	20	619.3			1175.6	3613.6			
2013	27-Dec-13	21	636.7			706.4	3363.3			
2013	27-Dec-13	22	665.8			620.4	2971.5			
2013	27-Dec-13	23	691.5			614.6	2567.3			
2013	28-Dec-13	0	442.6			612.8	2243.8			
2013	28-Dec-13	1	298.9			608.1	2231.9			
2013	28-Dec-13	2	255			631	2230.9			
2013	28-Dec-13	3	548.9			1125.5	2474.3			
2013	28-Dec-13	4	913.8			1564.2	3072.2			
2013	28-Dec-13	5	1013.2			1536.2	3589.1			
2013	28-Dec-13	6	992.3			1533.2	3754			
2013	28-Dec-13	7	1114.3			1548	3698.7			
2013	28-Dec-13	8	1176.6			1523.7	3728			
2013	28-Dec-13	9	780.2			1130.6	3611.5			
2013	28-Dec-13	10	641			731.9	3336.8			
2013	28-Dec-13	11	474.7			608.5	3038.9			
2013	28-Dec-13	12	360.2			617.2	2517.1			
2013	28-Dec-13	13	293.9			618.3	2199.7			
2013	28-Dec-13	14	191.9			619.7	2205.4			
2013	28-Dec-13	15	181.7			645.3	2260			
2013	28-Dec-13	16	479.1			1150.8	2705.5			
2013	28-Dec-13	17	877.9			1576.8	3356.1			
2013	28-Dec-13	18	1044.6			1545.3	3714			
2013	28-Dec-13	19	793.1			1531.9	3723.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	28-Dec-13	20	426.1			1528.9	3739.2			
2013	28-Dec-13	21	560.3			1443.1	3693.8			
2013	28-Dec-13	22	448.7			786	3460.7			
2013	28-Dec-13	23	326.1			621.3	3016.6			
2013	29-Dec-13	0	349.5			609.3	2638.3			
2013	29-Dec-13	1	328.5			605.3	2278.2			
2013	29-Dec-13	2	307.9			603.5	2196.9			
2013	29-Dec-13	3	314.9			600.2	2197.6			
2013	29-Dec-13	4	297.2			599.2	2190.7			
2013	29-Dec-13	5	316.9			603.6	2192.7			
2013	29-Dec-13	6	296.3			598.4	2184.4			
2013	29-Dec-13	7	314.9			617.1	2137.2			
2013	29-Dec-13	8	275.9			603.5	2168.8			
2013	29-Dec-13	9	291.4			592.6	2167.8			1.84
2013	29-Dec-13	10	269.2			590.3	2179.9			1.7
2013	29-Dec-13	11	281.9			594.8	2176.7		0	7.2
2013	29-Dec-13	12	275.2			612.1	2207.3		0	1.9
2013	29-Dec-13	13	276.5			602.9	2187.1		0	1.6
2013	29-Dec-13	14	269.3			593.3	2170.7		11.2	1.6
2013	29-Dec-13	15	293.6			591.1	2535.2		52.3	4.5
2013	29-Dec-13	16	608.6			680.7	3142.6		51.8	4.9
2013	29-Dec-13	17	924.6			1030.5	3584.1		44.1	5.9
2013	29-Dec-13	18	890.5			1493.5	3704.1		36.8	1.8
2013	29-Dec-13	19	1043.3			1246.8	3586.3		42.6	2.6
2013	29-Dec-13	20	950			712.6	3325.5		47.6	45.1
2013	29-Dec-13	21	651.2			572.1	2913		54.2	159.2
2013	29-Dec-13	22	656.7			579.2	2585.5		49.9	238.3
2013	29-Dec-13	23	748			583.6	2313.2		49	357.4
2013	30-Dec-13	0	530.5			581.7	2185		50.2	391.2
2013	30-Dec-13	1	436.8			574.9	2197.3		50.3	448.2
2013	30-Dec-13	2	349			575.4	2198.5		56.2	487
2013	30-Dec-13	3	332			575.7	2203.8		51.9	496.2
2013	30-Dec-13	4	474.9			600.4	2235.6		53.7	450.6
2013	30-Dec-13	5	564.5			1398.9	2704.4		54.1	448
2013	30-Dec-13	6	758.5			1522.9	3448.6		55.4	471.9
2013	30-Dec-13	7	1034.3			1467.4	3627.2		67.2	541.7
2013	30-Dec-13	8	1067.1			997	3361.6		122	528.5
2013	30-Dec-13	9	782.8			670.6	3216		134.9	513.5
2013	30-Dec-13	10	573.1			590.6	3331.9		316.9	506.4
2013	30-Dec-13	11	437.6			590.9	3013.1		494.1	438
2013	30-Dec-13	12	342.3			589	2685.1		486.5	416.5
2013	30-Dec-13	13	223.8			599.6	2620.8		497.2	438.3
2013	30-Dec-13	14	204.1			697.9	2944.3		596.3	543.9
2013	30-Dec-13	15	343.5			1462.7	3555.3		844.3	725.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2013	30-Dec-13	16	683.4			1520.3	3726.1		823.4	758
2013	30-Dec-13	17	883.2			1533.4	3692		367.9	759.8
2013	30-Dec-13	18	1004.3			1532	3656.3		339.5	794.3
2013	30-Dec-13	19	1035.5			1452.7	3595.1		354.7	779.4
2013	30-Dec-13	20	667.8			788.3	3357		505.8	664.4
2013	30-Dec-13	21	815.6			613.4	3121.6		492	597.9
2013	30-Dec-13	22	618			598.4	2851.6		496.8	452.3
2013	30-Dec-13	23	501.9			602.6	2481.9		497.1	425.3
2013	31-Dec-13	0	379.5			601.4	2378.3		500.9	422.6
2013	31-Dec-13	1	306.2			602.4	2249.2		513.5	423.8
2013	31-Dec-13	2	327.4			603.9	2204.6		494.3	419.7
2013	31-Dec-13	3	328.2	0		605	2203		502.6	419.3
2013	31-Dec-13	4	607.4	0		606.8	2220.3		492.9	418
2013	31-Dec-13	5	979	0		609.3	2225.4		483.8	413.1
2013	31-Dec-13	6	1014.9	0		644.3	2286.1		504.2	445.3
2013	31-Dec-13	7	732.5	0		542.5	2482.8		478.5	439.6
2013	31-Dec-13	8	453.7	0.8		603.7	3021.5		550.9	513.1
2013	31-Dec-13	9	337.5	0		619.6	3261.7		493.4	101.065
2013	31-Dec-13	10	196.2	0		607.2	3118.6		495	81.1
2013	31-Dec-13	11	177.6	0		699.8	3356.4		600.9	279.6
2013	31-Dec-13	12	133.1	0		716.7	3305.9		596.2	420.3
2013	31-Dec-13	13	165.6	0		656.2	3000.2		616.5	496.5
2013	31-Dec-13	14	653.3	0		682.5	3182.8		599.9	509.6
2013	31-Dec-13	15	844	0		612.9	2783.7		495.1	425
2013	31-Dec-13	16	1080.2	0		1139.6	3143.8		659.6	663.5
2013	31-Dec-13	17	1011.3	0		1507.9	3565.4		803.2	756
2013	31-Dec-13	18	1007.5	0		1507	3578.2		830.1	731.3
2013	31-Dec-13	19	869.2	0		1381.6	3496.6		708	704.2
2013	31-Dec-13	20	590.5	0		984.4	3277.4		504.2	689.2
2013	31-Dec-13	21	419.6	0		711.9	2923.3		429.8	727
2013	31-Dec-13	22	278.8	0		579.7	2714.5		428	703.1
2013	31-Dec-13	23	246.1	0		678.6	3005.3		479.5	671.8
2014	1-Jan-14	0	233.6	0		775.9	3350.6		617.5	699.5
2014	1-Jan-14	1	245.1	4.6		726.5	3310.4		700	685.9
2014	1-Jan-14	2	255.9	16.2		691.5	3122.2		675.7	596.8
2014	1-Jan-14	3	516	41.9		575	2716.1		561.2	483.2
2014	1-Jan-14	4	810.6	50.2		625.6	2769.2		525.4	420.8
2014	1-Jan-14	5	825.4	61.3		1070	3244.5		752.1	630.7
2014	1-Jan-14	6	1277.9	87		1493	3569		878	767.1
2014	1-Jan-14	7	1119	179.2		1162.2	3339.1		679	573.1
2014	1-Jan-14	8	935.3	391.9		688.8	2928		476	412.7
2014	1-Jan-14	9	548.2	438		617.6	2461		479.5	369.6
2014	1-Jan-14	10	463.4	437		623.4	2147.3		480	378.9
2014	1-Jan-14	11	289.2	444.4		625.8	2131.3		458	376.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	1-Jan-14	12	199.6	445.6		628.8	2143.1		403.2	379.3
2014	1-Jan-14	13	171.9	470		632.1	2151.3		383.4	377.9
2014	1-Jan-14	14	153	509.9		637.8	2140.7		369.4	368.4
2014	1-Jan-14	15	215.6	625.5		849.2	2344.4		474	444.1
2014	1-Jan-14	16	387.3	960.1		1548.5	3242.6		772.3	672
2014	1-Jan-14	17	531.4	650		1529.7	3558.2		863.8	811.8
2014	1-Jan-14	18	574.1	893.6		1536	3567.4		843.9	801.1
2014	1-Jan-14	19	565	897.9		1458.3	3534.2		771.4	763
2014	1-Jan-14	20	541.6	874.9		1219.7	3365.8		643	674.5
2014	1-Jan-14	21	488.4	818		791.6	3063.2		463.2	547.6
2014	1-Jan-14	22	320.3	522.7		618	2692.9		435	454.3
2014	1-Jan-14	23	340.6	231.3		590.8	2415.8		492.8	388.1
2014	2-Jan-14	0	415	128.8		595.3	2156.2		493.2	395.1
2014	2-Jan-14	1	363.4	101.4		596.4	2146.6		492.5	393.6
2014	2-Jan-14	2	284.8	79.4		594.8	2156		490.2	397.4
2014	2-Jan-14	3	271.3	78.1		594.6	2151.5		492	393.1
2014	2-Jan-14	4	334.8	126.4		593.8	2169.3		494.3	393.2
2014	2-Jan-14	5	868	409		586.5	2162.8		497	400.1
2014	2-Jan-14	6	1039.7	760.7		590	2152.8		504.7	395.8
2014	2-Jan-14	7	1050.3	818.2		715.8	2347.2		541.9	474.7
2014	2-Jan-14	8	1042.4	327.8		634.3	2531.7		531.7	500.4
2014	2-Jan-14	9	997.5	280.6		737.4	2866.5		601.6	599.2
2014	2-Jan-14	10	1118.6	553.6		1186.8	3146.7		688.3	689.3
2014	2-Jan-14	11	963.2	877.9		1414.9	3268.1		753.8	761.5
2014	2-Jan-14	12	852	927.7		1498.1	3330.5		867.2	826.8
2014	2-Jan-14	13	730.3	989.3		1430.5	3299.5		857.7	803.8
2014	2-Jan-14	14	702.4	906.3		1460.5	3268.4		860.6	771.2
2014	2-Jan-14	15	518.5	884.8		1516.9	3337.9		904.8	840.3
2014	2-Jan-14	16	429.6	842.6		1532.2	3586.3		910.8	862.6
2014	2-Jan-14	17	380.6	772.4		1531.1	3589.6		901.9	847.8
2014	2-Jan-14	18	343.4	755.6		1538.2	3586.1		927.4	851.5
2014	2-Jan-14	19	368	733.4		1534.3	3598		919.2	843.2
2014	2-Jan-14	20	507.2	882.8		1524.7	3615.5		911.5	825.1
2014	2-Jan-14	21	504.3	996.5		1516.8	3598.5		866.3	812.8
2014	2-Jan-14	22	436.1	857.8		1518.7	3613.7		848.1	794.5
2014	2-Jan-14	23	389.3	784.5		1517.8	3611.7		837.2	808.9
2014	3-Jan-14	0	376.1	766.4		1513.4	3610.5		840	827.6
2014	3-Jan-14	1	370.4	727.4		1516.1	3613.9		846.6	802
2014	3-Jan-14	2	362.5	751.8		1505.9	3609.3		826.1	847.5
2014	3-Jan-14	3	328.1	741.8		1497.5	3589.8		866	832.3
2014	3-Jan-14	4	274.7	706.7		1520.5	3593.8		890.3	807
2014	3-Jan-14	5	242.7	687.5		1526.6	3561.8		898.9	810.2
2014	3-Jan-14	6	242.2	578.3		1525.2	3552.6		863.6	840
2014	3-Jan-14	7	474.2	433		1510.1	3511.8		849	819.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Jan-14	8	625.6	615		1487.2	3560.4		828.2	837.9
2014	3-Jan-14	9	643	621		1481.7	3561.3		817.8	826.1
2014	3-Jan-14	10	786.1	654.1		1472.8	3561.3		821.8	830.5
2014	3-Jan-14	11	874.6	687.3		1487	3574		862.4	798.1
2014	3-Jan-14	12	928.4	648.8		1487	3585.9		844.6	799.3
2014	3-Jan-14	13	945.6	671.3		1484.4	3586.5		755.7	765
2014	3-Jan-14	14	942.5	655.1		1503.6	3591		591.4	780.4
2014	3-Jan-14	15	888.1	620.5		1513.8	3607.9		693.2	796.5
2014	3-Jan-14	16	846.8	670.3		1526.1	3595.2		849	870.7
2014	3-Jan-14	17	802.7	654.5		1531.2	3591.1		1039.1	955.8
2014	3-Jan-14	18	776.6	645.2		1537.2	3589.9		1056.3	1000.3
2014	3-Jan-14	19	781.6	944.2		1536.7	3596.4		1068.1	975.1
2014	3-Jan-14	20	822.7	1123.5		1537.3	3611.2		1082.4	965.5
2014	3-Jan-14	21	868.1	1085.9		1547.1	3602.5		1071.7	979.2
2014	3-Jan-14	22	856.9	957.4		1541.5	3577.1		1070	973.9
2014	3-Jan-14	23	894.3	853.8		1544.9	3588.3		1037.3	946.3
2014	4-Jan-14	0	944.2	855.2		1542	3608		1021.5	929.9
2014	4-Jan-14	1	946.9	851.6		1549	3597.1		1029.1	927.8
2014	4-Jan-14	2	942.9	833		1531.8	3595.6		1013	923
2014	4-Jan-14	3	1015.8	795.7		1529.5	3610.8		1006.9	882.9
2014	4-Jan-14	4	992	740.3		1529.3	3605.1		960.8	876.5
2014	4-Jan-14	5	974.8	713.9		1526.2	3615.1		870.5	814.2
2014	4-Jan-14	6	1011.4	741.2		1461.7	3609.7		877.1	781.8
2014	4-Jan-14	7	1034.1	639.8		1463.7	3588.2		897.8	801.5
2014	4-Jan-14	8	1050.3	834.8		1466.1	3631.7		880.3	796.1
2014	4-Jan-14	9	971.5	768.1		1463.9	3661.7		855.7	808.3
2014	4-Jan-14	10	1013.8	783.5		1423.3	3655.8		889.5	810.1
2014	4-Jan-14	11	1018.5	827.1		1405.6	3629.1		959.8	830.2
2014	4-Jan-14	12	1001.5	801.5		1404.9	3627.3		911.5	812.6
2014	4-Jan-14	13	667.8	403		1384.4	3397.6		723.6	661.6
2014	4-Jan-14	14	536.2	447.6		1190.2	3205.6		662.4	594.2
2014	4-Jan-14	15	340.2	263.5		732.3	3052		600.4	455.9
2014	4-Jan-14	16	377.3	281.1		682.1	2981.6		570.7	483
2014	4-Jan-14	17	905.6	592.1		1274.6	3485		800	778.3
2014	4-Jan-14	18	1100.2	768.5		1435.5	3654.9		860.5	933.4
2014	4-Jan-14	19	1052.6	547.4		1559.2	3628.1		842.5	894.7
2014	4-Jan-14	20	1038.4	800.6		1535.1	3630		844.9	838.8
2014	4-Jan-14	21	933	690.2		1229.7	3434.5		752.3	729.7
2014	4-Jan-14	22	1080.2	741.1		1502.5	3569.9		894.2	827.3
2014	4-Jan-14	23	1032.3	740.2		1568.2	3647.2		867.6	850.7
2014	5-Jan-14	0	251	561.2		1220.5	3570.8		721.3	803.1
2014	5-Jan-14	1	143.9	475.8		740.1	3185		687.7	698.8
2014	5-Jan-14	2	873.1	643		1018.9	3299.7		856.1	786.8
2014	5-Jan-14	3	905.9	648.4		1319	3370.3		765	779.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	5-Jan-14	4	492.2	453.6		1349	2969.4		572.8	691.8
2014	5-Jan-14	5	695.6	572.3		1540.5	3199.2		762.9	783.1
2014	5-Jan-14	6	993.1	554.3		1570.6	3358.7		908.8	850.5
2014	5-Jan-14	7	853.8	506.6		1530.1	3214.4		828	772.6
2014	5-Jan-14	8	946.6	618.3		1554.4	3489		862.4	834.3
2014	5-Jan-14	9	931.2	619		1542.9	3677.8		835.2	848.9
2014	5-Jan-14	10	969.1	625.6		1531.1	3662.2		824.7	804.6
2014	5-Jan-14	11	953.2	681.3		1521	3634.6		819.3	776.8
2014	5-Jan-14	12	946.6	689.4		1519.1	3628.2		802.4	764.6
2014	5-Jan-14	13	1114.6	834.5		1525.4	3650.2		801.8	765.7
2014	5-Jan-14	14	1072.7	818.5		1521.3	3637.4		851.7	797.1
2014	5-Jan-14	15	1063.1	827.9		1510.6	3605.4		880.4	832.8
2014	5-Jan-14	16	1097.2	869.2		1514.3	3606.4		960.9	909.4
2014	5-Jan-14	17	1159	846.3		1524.2	3639.6		1027.5	938.8
2014	5-Jan-14	18	1146.4	879.6		1564.7	3649.2		987.5	916.4
2014	5-Jan-14	19	1199.7	842.8		1563.8	3657.5		868.2	883.4
2014	5-Jan-14	20	1124.3	857.2		1551.8	3670.2		901.5	893.5
2014	5-Jan-14	21	873.9	654.1		1161.1	3512.5		819.8	765.2
2014	5-Jan-14	22	465.3	381.7		678.9	3196.1		651.9	657.3
2014	5-Jan-14	23	282.6	189		592.6	2754.1		574.9	505.6
2014	6-Jan-14	0	190.3	135.9		595.1	2329		568	466.8
2014	6-Jan-14	1	144.3	100.7		596.1	2188.1	0.047	577.7	468.2
2014	6-Jan-14	2	122.4	74.6		596.8	2177.9	248.994	591.9	471.9
2014	6-Jan-14	3	115.8	81.3		585.8	2190.7	515.088	603.5	471.8
2014	6-Jan-14	4	98	77.6		593.3	2185.1	584.494	588.4	479.7
2014	6-Jan-14	5	95.4	78.6		614.7	2193.9	628.694	597.7	480.5
2014	6-Jan-14	6	105.6	93		710.7	2298.9	713.894	617.4	575.3
2014	6-Jan-14	7	171.9	117.4	0.002	818.3	2788.7	988.494	765.8	797.9
2014	6-Jan-14	8	134.4	172.9	0.067	891.2	2931.3	979.991	800.6	767.7
2014	6-Jan-14	9	166.1	238.7	0.084	1118.8	3081.7	796.152	841.3	854.7
2014	6-Jan-14	10	306.4	338.3	0.084	1491.1	3456.2	1092.547	916.1	863
2014	6-Jan-14	11	572.7	478.5	0.084	1554.6	3659.6	996.147	891.4	880.8
2014	6-Jan-14	12	944	649.7	0.083	1551.5	3685.2	1098.241	887.2	868.2
2014	6-Jan-14	13	1009	756.3	0.083	1568.9	3686.6	1117.431	899.6	874.9
2014	6-Jan-14	14	942.3	760.6	183.012	1583.2	3677	1025.831	886.9	862.3
2014	6-Jan-14	15	928	731.8	149.3	1572.1	3604	976.431	898.1	831
2014	6-Jan-14	16	999.1	770.2	228.4	1595.8	3677.5	978.031	949.8	912.5
2014	6-Jan-14	17	954.6	795.8	341.2	1602.3	3686.1	985.931	946.3	980.3
2014	6-Jan-14	18	996.3	828.1	499.2	1570.6	3683	839.027	989.1	1055.4
2014	6-Jan-14	19	962.8	827.7	565	1571.3	3665.5	576.7	1057	1063
2014	6-Jan-14	20	898.2	715.2	563.1	1551.8	3636.4	809.4	1030.1	1067.7
2014	6-Jan-14	21	856.3	712	563.7	1572.7	3647.2	1158.5	1021.2	1108.9
2014	6-Jan-14	22	892.8	739.7	562.7	1555.3	3655.1	1661.7	1040	1032.1
2014	6-Jan-14	23	904.5	730.4	561.8	1549.8	3646.7	2033.3	1005.9	1040.9



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	7-Jan-14	0	939.1	727.8	562.1	1564.4	3648.9	2110.3	1033.3	1020
2014	7-Jan-14	1	931.9	1054.1	561.9	1555.9	3640.2	1885.7	1020.5	1005.2
2014	7-Jan-14	2	926	786.8	561.3	1536.6	3623.7	1895.9	1011.9	1006.9
2014	7-Jan-14	3	888.8	783.9	560.7	1530.3	3617.3	1899.9	947	763.502
2014	7-Jan-14	4	815	793.7	560.8	1520.6	3620.3	1899.8	864.2	
2014	7-Jan-14	5	906.2	744.1	578.2	1515.6	3589.6	1896.5	885	
2014	7-Jan-14	6	802.1	642.4	586.9	1520.3	3564.1	1902.2	776.5	
2014	7-Jan-14	7	779.5	596.3	590	1535.2	3575.7	1912.7	826.1	
2014	7-Jan-14	8	822.8	584.7	598.8	1661.2	3596.3	2117.5	878.2	
2014	7-Jan-14	9	826.8	571.2	606.5	1706.6	3605.1	2248.7	904.4	
2014	7-Jan-14	10	835.1	608	608.2	1714.9	3618.1	2286.8	910.8	
2014	7-Jan-14	11	836.3	677	608.4	1712.4	3608	2283.2	897.3	
2014	7-Jan-14	12	879.9	669.9	608	1730.8	3593.3	2282.2	859.8	12.9
2014	7-Jan-14	13	879.6	681.8	608.1	1728.8	3635.2	2280.9	861.5	25.7
2014	7-Jan-14	14	886.6	737.1	607.7	1726.9	3648.6	2306.5	835.6	24.5
2014	7-Jan-14	15	873.4	767.5	607.9	1744.7	3644.7	2274.3	832.3	24.3
2014	7-Jan-14	16	864.3	753.5	607	1739	3645.9	2257.6	887.9	24.1
2014	7-Jan-14	17	860.4	801.3	606.2	1737.1	3625.2	2278.4	907.1	25.1
2014	7-Jan-14	18	863.9	845.9	605.5	1734	3600.4	2286.4	896.5	63.2
2014	7-Jan-14	19	881.6	886.2	605.4	1716.8	3588.3	2282	893.5	286.7
2014	7-Jan-14	20	894.9	900.7	604.9	1704.6	3587.4	2277.3	912	494.6
2014	7-Jan-14	21	868	815	604.3	1686.2	3586.8	2277.2	914.6	817.2
2014	7-Jan-14	22	836.7	810.8	605.3	1695.2	3572.2	2293.9	914	825.6
2014	7-Jan-14	23	788.7	793.1	605.4	1674.6	3579.6	2241.6	944.8	983.3
2014	8-Jan-14	0	762.5	775.5	597.7	1664.9	3553.6	2298.7	968	1021.1
2014	8-Jan-14	1	755	739.5	576.9	1641.6	3530	2239.4	968.7	1026.2
2014	8-Jan-14	2	750.8	727.4	529.2	1626.6	3523	2265.9	959.3	1021.5
2014	8-Jan-14	3	759.3	759.5	477.4	1616.4	3515.3	2274.4	955.6	1015.4
2014	8-Jan-14	4	738.3	754.1	496.6	1608.7	3466.3	1934.8	946.3	996.1
2014	8-Jan-14	5	696.9	738.2	594.1	1609.2	3412.4	1962.4	921.9	964.9
2014	8-Jan-14	6	682.7	738.4	603.2	1606.5	3403	2281.3	914.7	945.3
2014	8-Jan-14	7	700.9	686.9	605.2	1638.9	3331.9	2269.8	918.8	974.8
2014	8-Jan-14	8	789.9	721.6	604.1	1642.8	3308.4	2264.2	974.9	991.9
2014	8-Jan-14	9	674	652.1	604.2	1656.6	3289.8	2183.1	994.3	1025.2
2014	8-Jan-14	10	703.7	698	604.1	1649	3262.3	1311.8	996.2	1071.1
2014	8-Jan-14	11	745.1	724.7	602.5	1657.1	3260.1	0.008	987.4	1030.4
2014	8-Jan-14	12	777.6	733.7	594.3	1697.2	3247.9		1012.6	1033.2
2014	8-Jan-14	13	815.8	735.8	479.1	1695.3	3240.6		1045.2	1032.1
2014	8-Jan-14	14	839.2	738.1	398	1511.6	3188.1		1027.4	1024
2014	8-Jan-14	15	798.7	750.7	311.5	1493.4	3271.7		987.1	1018.5
2014	8-Jan-14	16	749.4	731.1	323.7	1479.8	3274.7		1010.4	1015
2014	8-Jan-14	17	702.9	724.3	446.6	1462.5	3264.8		997.7	1003.2
2014	8-Jan-14	18	689	742.5	580.9	1439.4	3258.1		976.6	1037.3
2014	8-Jan-14	19	634.7	729.8	567.7	1427.4	3258.1		958.2	1038.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	8-Jan-14	20	703.4	743.5	527.7	1429.4	3260.3		969	1030.4
2014	8-Jan-14	21	671	696.4	415.6	1420	3256.3		980.8	1024.4
2014	8-Jan-14	22	592.9	653.6	302.6	1367.9	3232.4		934.4	1016.9
2014	8-Jan-14	23	410.3	495.6	301.7	1213.1	3055.6		886.1	985.2
2014	9-Jan-14	0	226.1	208.4	207.2	687.3	2787.5		758.6	892.4
2014	9-Jan-14	1	204.6	271.5	42.2	712	2835.3		867.5	845.4
2014	9-Jan-14	2	140.7	184.6	0.014	637.2	2713.1		760.4	708.8
2014	9-Jan-14	3	91.7	126.9		535.6	2660.6		692.5	601.7
2014	9-Jan-14	4	95.4	96.2		574.6	2667		695.8	594.1
2014	9-Jan-14	5	83	96.3		551	2633.5		701.2	595.4
2014	9-Jan-14	6	124.5	150.8		673.7	2667.4		811.7	740.1
2014	9-Jan-14	7	237.6	284.7		1344.1	3107.6		1068.1	997
2014	9-Jan-14	8	299.6	552.4		1388.5	3314.4		1071.8	1041.7
2014	9-Jan-14	9	496.1	582		1412.5	3335.4		1114	1083.9
2014	9-Jan-14	10	506.6	404.7		1335.5	3271.6		1009.5	990.7
2014	9-Jan-14	11	414.1	337		1235.6	2981.9		650	738.2
2014	9-Jan-14	12	457.7	228.5		1252.5	2663.3		525.4	487.8
2014	9-Jan-14	13	575.5	145.7		1227.3	2244.4		495.5	433.2
2014	9-Jan-14	14	602.3	117.3		1223.8	2020		469.9	419.1
2014	9-Jan-14	15	1028.2	213.1		1333.2	2198.7		640.2	613.5
2014	9-Jan-14	16	1073.8	499		1485.2	2835.5		777.7	761.7
2014	9-Jan-14	17	1247.4	613.2		1495.9	3286.1		710.1	727.4
2014	9-Jan-14	18	1370.1	662.8		1482.7	3336.9		659.5	682.6
2014	9-Jan-14	19	1384.1	645.8		1440.7	3315.6		668	678.3
2014	9-Jan-14	20	1277.8	572.7		1363.4	3271.8		618.1	690.5
2014	9-Jan-14	21	885.5	352.9		893.9	3036.7		468.7	634.7
2014	9-Jan-14	22	565.8	358.7		610.1	2734.7		402.7	522.7
2014	9-Jan-14	23	516.7	375.3		592.4	2401.3		408.9	415.8
2014	10-Jan-14	0	361.3	241.9		597.1	2121.6		408.4	422.7
2014	10-Jan-14	1	363.8	216		595.1	2010		411.8	428.8
2014	10-Jan-14	2	402.4	210.4		602.3	2000		417	433.3
2014	10-Jan-14	3	372.2	236.5		602.3	2048.1		433.5	437.1
2014	10-Jan-14	4	781.1	501.6		1123.1	2397.9		619.5	587.4
2014	10-Jan-14	5	1339.7	881.8		1495.3	3147		724.9	675.6
2014	10-Jan-14	6	1487.1	1119.8		1474.5	3335.7		771.4	645.1
2014	10-Jan-14	7	1358.6	1246.1		1522.1	3332.7		747.5	693.7
2014	10-Jan-14	8	1256	1367		1516.4	3324.6		704.3	701.7
2014	10-Jan-14	9	911.2	1020.9		1513.1	3372.1		673.1	607.2
2014	10-Jan-14	10	967.6	978.7		1508.3	3310.9		651.4	586.5
2014	10-Jan-14	11	783.2	713.2		1518.7	3340.8		637.6	585.2
2014	10-Jan-14	12	777.1	682.6		1514	3381.2		640.2	589.3
2014	10-Jan-14	13	556.9	530.5		1513.7	3394.5		646.1	590.7
2014	10-Jan-14	14	377.6	369.8		1498.3	3381.4		637.7	584.4
2014	10-Jan-14	15	322.3	254.4		1510.1	3384.7		666.4	624.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	10-Jan-14	16	679.8	612.3		1509.6	3379.7		759.8	711.2
2014	10-Jan-14	17	1274.8	825.4		1500.3	3384.1		796.6	782.1
2014	10-Jan-14	18	1416.7	849.2		1505.7	3378.7		742.9	727.4
2014	10-Jan-14	19	1276.5	764.9		1499.6	3357.1		693.7	578.6
2014	10-Jan-14	20	1008.5	418.3		1507.2	3365.6		741.9	481.2
2014	10-Jan-14	21	763	263		1507.5	3377.8		753.4	434.6
2014	10-Jan-14	22	568.6	161.4		1505.6	3356.9		765.9	437.3
2014	10-Jan-14	23	455	119.7		1496.6	3342.6		759.6	425.5
2014	11-Jan-14	0	296.9	265.2		1151.4	3354.2		528.906	306.9
2014	11-Jan-14	1	246.6	245.7		307.3	3343.4		1.56	14.399
2014	11-Jan-14	2	188.4	131.2		0	3185.8		0.351	
2014	11-Jan-14	3	152.5	51.156		0	2843.8			
2014	11-Jan-14	4	138.4			0	2353.4			
2014	11-Jan-14	5	122.9			0	2065.9			
2014	11-Jan-14	6	93.9			0	2031.8			
2014	11-Jan-14	7	231.7				1994.1			
2014	11-Jan-14	8	286				2112.2			
2014	11-Jan-14	9	283.3				2479.7			
2014	11-Jan-14	10	299.1				2979.3			
2014	11-Jan-14	11	336.9				3087.5			
2014	11-Jan-14	12	306.7				3037.8			
2014	11-Jan-14	13	515.7				2961.7			
2014	11-Jan-14	14	609.2				2606.6			
2014	11-Jan-14	15	414.1				2330.7			
2014	11-Jan-14	16	372.8				2203.1			
2014	11-Jan-14	17	495.4				2408			
2014	11-Jan-14	18	668.4				2430.2			
2014	11-Jan-14	19	523.7				2097.1			
2014	11-Jan-14	20	339				2041.5			
2014	11-Jan-14	21	150.8				2057.1			
2014	11-Jan-14	22	389.2				2052.7			
2014	11-Jan-14	23	386.8				2059.9			
2014	12-Jan-14	0	412.1				2089.5			
2014	12-Jan-14	1	414.3				2089.2			
2014	12-Jan-14	2	379.8				2103.4			
2014	12-Jan-14	3	407.2				2147			
2014	12-Jan-14	4	424.8				2147			
2014	12-Jan-14	5	410.9				2153.6			
2014	12-Jan-14	6	412.2				2144.1			
2014	12-Jan-14	7	390.1				2116.7			
2014	12-Jan-14	8	369.1				2119.1			
2014	12-Jan-14	9	361.2				2120			
2014	12-Jan-14	10	424.6				2137.9			
2014	12-Jan-14	11	478.8				2179.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	12-Jan-14	12	504.3				2114.4			
2014	12-Jan-14	13	500.3				2119.5			
2014	12-Jan-14	14	534.9				2104.6			
2014	12-Jan-14	15	639.7				2113.9			
2014	12-Jan-14	16	1334				2152.8			
2014	12-Jan-14	17	1389.4				2261.5			
2014	12-Jan-14	18	1617.5				2495.7			
2014	12-Jan-14	19	1516.6				2331.2			
2014	12-Jan-14	20	1616				2299.2			
2014	12-Jan-14	21	764.5				2317.5			
2014	12-Jan-14	22	513.2				2217.8			
2014	12-Jan-14	23	380.4				2202.9			
2014	13-Jan-14	0	294.1				2208.7			
2014	13-Jan-14	1	193.7				2213.6			
2014	13-Jan-14	2	137.3				2233.8			
2014	13-Jan-14	3	98.6				2253.7			
2014	13-Jan-14	4	133.5				2263.3			
2014	13-Jan-14	5	250.7				2307.4			
2014	13-Jan-14	6	444.1				2487.7			
2014	13-Jan-14	7	591				2786.5			
2014	13-Jan-14	8	530				2896.1			
2014	13-Jan-14	9	336.6				2552.9			
2014	13-Jan-14	10	407				2318.4			
2014	13-Jan-14	11	501.4				2321			
2014	13-Jan-14	12	324.6				2326.3			
2014	13-Jan-14	13	232.4				2332.7			
2014	13-Jan-14	14	176.9				2336			
2014	13-Jan-14	15	156.7				2344.2			
2014	13-Jan-14	16	143.7				2385.8			
2014	13-Jan-14	17	332.3				2700.9			
2014	13-Jan-14	18	1187.6				3419.8			
2014	13-Jan-14	19	1391				3637.2			
2014	13-Jan-14	20	808.9				3282.9			
2014	13-Jan-14	21	522.1				2851.1			
2014	13-Jan-14	22	497.9				2408.4			
2014	13-Jan-14	23	610.5				2262.9			
2014	14-Jan-14	0	488.9				2271.5			
2014	14-Jan-14	1	462.6				2285.7			
2014	14-Jan-14	2	461.1				2284.7			
2014	14-Jan-14	3	426.7				2289			
2014	14-Jan-14	4	542.3				2297.1			
2014	14-Jan-14	5	1048.9				2306.2			
2014	14-Jan-14	6	1441.4				2306.7			
2014	14-Jan-14	7	1447.2				2273.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Jan-14	8	1245.5				2321.8			
2014	14-Jan-14	9	856			0.036	2324.8			
2014	14-Jan-14	10	645			0	2323.7			
2014	14-Jan-14	11	389.1			6.1	2326.3			
2014	14-Jan-14	12	297.7			1.3	2336.3			
2014	14-Jan-14	13	218.5			2	2339.8			
2014	14-Jan-14	14	147.4			0	2337.8			
2014	14-Jan-14	15	133.5			0	2342			
2014	14-Jan-14	16	127.4			0	2341.2			
2014	14-Jan-14	17	129.9			0	2334.2			
2014	14-Jan-14	18	126.5			0	2322			
2014	14-Jan-14	19	121.7			0	2343.2			
2014	14-Jan-14	20	350.6			0	2348.1			
2014	14-Jan-14	21	406.3			0	2354.3			
2014	14-Jan-14	22	390.6			0	2359.4			
2014	14-Jan-14	23	402.9			0	2373.4			
2014	15-Jan-14	0	397.7			0	2378.2			
2014	15-Jan-14	1	419.8			0	2395.6			
2014	15-Jan-14	2	393.1			0	2378.2			
2014	15-Jan-14	3	407.3			0	2402.1			
2014	15-Jan-14	4	501.7			0	2405.3			
2014	15-Jan-14	5	621.7			0	2424.7			
2014	15-Jan-14	6	766.9			0	2473.3			
2014	15-Jan-14	7	792.4			11.7	2914.8			
2014	15-Jan-14	8	554.5			3.8	2870.6			
2014	15-Jan-14	9	336.3			0.8	2830.5			
2014	15-Jan-14	10	203.6			0	2466.3			
2014	15-Jan-14	11	135.8			0	2431.8			
2014	15-Jan-14	12	135.6			0	2448.2			
2014	15-Jan-14	13	127.9			0	2443.5			
2014	15-Jan-14	14	119.4			0	2445.6			
2014	15-Jan-14	15	195			0	2552		0	
2014	15-Jan-14	16	1083.6			0	3500.3		0	
2014	15-Jan-14	17	1503.1			0	3972.3		0	
2014	15-Jan-14	18	1543.9			0	3987.5		0	
2014	15-Jan-14	19	591.9			10.8	4026.5		0	
2014	15-Jan-14	20	444.5			246.8	3972.8		30.7	
2014	15-Jan-14	21	471			262.7	3788.5		49.4	
2014	15-Jan-14	22	560.8			448.6	3407.5		52.8	
2014	15-Jan-14	23	305.9			579.5	2848		63.4	
2014	16-Jan-14	0	210.3			576.9	2430.8		57.2	
2014	16-Jan-14	1	160.8			535.5	2380.7		56.7	
2014	16-Jan-14	2	142.7			537.3	2387.9		59.5	
2014	16-Jan-14	3	146.1			539.8	2368.8		61.6	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	16-Jan-14	4	254.5			669.7	2822.4		38.5	
2014	16-Jan-14	5	739.7			1177	3869		57.7	
2014	16-Jan-14	6	1204.4			1385.2	3994.2		47.9	
2014	16-Jan-14	7	1461.7			1560.5	3898.2		53.5	
2014	16-Jan-14	8	1658.2			1515.1	3895.6		226.2	
2014	16-Jan-14	9	1577.2			1363.8	3671.8		304.6	
2014	16-Jan-14	10	1319.3			1458.1	3466.8		465.8	
2014	16-Jan-14	11	1115.3			1066.7	3191.3		531.7	
2014	16-Jan-14	12	820.3			670.2	2785.9		521.8	
2014	16-Jan-14	13	632.9			573.2	2487.8		474.3	
2014	16-Jan-14	14	443.1			586.2	2317.3		492	
2014	16-Jan-14	15	304.4			598.6	2349.9		521.1	
2014	16-Jan-14	16	591.4			687.2	2767.7		527.6	
2014	16-Jan-14	17	1575.6			1152.4	3540.7		647.7	
2014	16-Jan-14	18	960.9			1539.6	3914.8		861	
2014	16-Jan-14	19	808.8			1571.5	3925		912	
2014	16-Jan-14	20	804.3			1549.4	3941.2		940.2	
2014	16-Jan-14	21	678.2			1400.7	3759		824.3	
2014	16-Jan-14	22	481.1			1278.3	3483.1		623.2	
2014	16-Jan-14	23	631.8			1072.9	2923.5		513	
2014	17-Jan-14	0	335.2			759.6	2475.1		526.6	
2014	17-Jan-14	1	540.8			600.8	2372.6		469	
2014	17-Jan-14	2	441.5			609.6	2354.1		461.7	
2014	17-Jan-14	3	453.8			616.3	2379.7		494.5	
2014	17-Jan-14	4	617.8			1020.7	3228.2		778.6	
2014	17-Jan-14	5	1173.4			1541.2	3864.1		867.9	
2014	17-Jan-14	6	1488.1			1554.5	3921.7		823.5	
2014	17-Jan-14	7	1727			1564.1	3865.5		831.2	
2014	17-Jan-14	8	1679.3			1547	3909.2		841.6	
2014	17-Jan-14	9	1647.2			1553.7	3915.3		835.6	
2014	17-Jan-14	10	1531.4			1529.8	3907.4		818	
2014	17-Jan-14	11	1071.4			1335.7	3823		719.2	
2014	17-Jan-14	12	654.6			737.9	3578.1		588.2	
2014	17-Jan-14	13	460.2			679.1	3231		517.3	
2014	17-Jan-14	14	210.094			694.7	2834.3		421.4	
2014	17-Jan-14	15				701.4	2458.4		400.6	
2014	17-Jan-14	16				834.9	2634.8		558.5	
2014	17-Jan-14	17				1414.9	3260.4		818.2	
2014	17-Jan-14	18				1543.7	3749.8		825.5	
2014	17-Jan-14	19				1406.6	3780.3		776.3	
2014	17-Jan-14	20				980.6	3519.4		611.1	1.2
2014	17-Jan-14	21				729.3	3275.5		447.1	5.3
2014	17-Jan-14	22				648.7	2990.2		413.8	6.5
2014	17-Jan-14	23				658.7	2793.2		407.2	6.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	18-Jan-14	0				659.3	2439.2		427.5	9.4
2014	18-Jan-14	1				647.1	2380		436.1	3.2
2014	18-Jan-14	2				649.1	2375.5		431.7	15.3
2014	18-Jan-14	3				648.5	2358.4		429.9	2
2014	18-Jan-14	4				648.9	2381.9		421.9	8.9
2014	18-Jan-14	5				643.9	2381.7		417.1	1.4
2014	18-Jan-14	6				654.7	2387.3		435	40.7
2014	18-Jan-14	7				677.9	2318.1		449.5	52.7
2014	18-Jan-14	8				741	2494.3		476.9	137.2
2014	18-Jan-14	9				1189.8	3016.5		617.8	289.6
2014	18-Jan-14	10				1483.8	3482.7		723.2	416
2014	18-Jan-14	11				1497.1	3638.2		725.3	458.1
2014	18-Jan-14	12				1207.1	3301.4		546.1	359.6
2014	18-Jan-14	13				841.6	2915.8		410	390.1
2014	18-Jan-14	14				712.2	2484.1		452.2	421.8
2014	18-Jan-14	15				733.4	2419.8		599	435.2
2014	18-Jan-14	16				1396.1	2941.2		936.6	792.9
2014	18-Jan-14	17				1600.2	3563.8		933.6	784.5
2014	18-Jan-14	18				1605.1	3896		881.5	777.6
2014	18-Jan-14	19				1564	3919.2		860.7	778.3
2014	18-Jan-14	20				1594.9	3918.8		847.4	777.8
2014	18-Jan-14	21				1600	3943.2		898.4	797.6
2014	18-Jan-14	22		0		1594.5	3908.1		822.9	775.3
2014	18-Jan-14	23		0		1513.6	3860.1		817.4	709.7
2014	19-Jan-14	0		0		1523.8	3853.6		706.3	691.3
2014	19-Jan-14	1		0		1501.3	3701.3		595.5	662.7
2014	19-Jan-14	2		0.9		1354.2	3428.7		472.1	514.5
2014	19-Jan-14	3		0		1353	3207.3		440.2	415.8
2014	19-Jan-14	4		0		1354.2	3008.2		439.5	352
2014	19-Jan-14	5		0		1357.5	2781.1		447.1	381.7
2014	19-Jan-14	6		0		1352.2	2728		435.9	372.8
2014	19-Jan-14	7		0		1075.4	2639.4		444.6	404.2
2014	19-Jan-14	8		0.9		1354.2	3167		588.1	711.6
2014	19-Jan-14	9		0		1696.3	3668.6		779.3	768.5
2014	19-Jan-14	10		0		1545.8	3670		795.5	721.4
2014	19-Jan-14	11		0		1473.7	3547.9		711.8	773.3
2014	19-Jan-14	12		0		1165.8	3241.3		776.1	974.2
2014	19-Jan-14	13		0		793.5	2825.8		756.6	1392.3
2014	19-Jan-14	14	0	0		692.6	2486.8		770.3	1309.7
2014	19-Jan-14	15	0	0		792.4	2439.9		753.8	1603.2
2014	19-Jan-14	16	0	0		1646	2944.4		930.5	1771.7
2014	19-Jan-14	17	0	0		1727.2	3567.7		897.1	1750.8
2014	19-Jan-14	18	1.6	0		1649.1	3869.4		910.8	1609.7
2014	19-Jan-14	19	0	0		1348.8	3645.4		604.3	818.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	19-Jan-14	20	0	0		1018.8	3387.1		550.2	1040.5
2014	19-Jan-14	21	0	0		674.5	3005.3		474.5	765.9
2014	19-Jan-14	22	0	0		639.5	2663		528.6	846.5
2014	19-Jan-14	23	0	0		652.5	2386		551.4	870.7
2014	20-Jan-14	0	0	0		657.9	2325.2		617.1	807.5
2014	20-Jan-14	1	0	0		647.9	2294.1		572	824.2
2014	20-Jan-14	2	0	0		646.5	2297.8		471.4	777.3
2014	20-Jan-14	3	0	0		647.8	2298.4		447.3	724.5
2014	20-Jan-14	4	0	0		752.1	2434.6		444.5	672.3
2014	20-Jan-14	5	10.5	0		1531.5	3289.2		482.8	696.7
2014	20-Jan-14	6	22.6	0		1680.5	3930.6		492.7	752.3
2014	20-Jan-14	7	67.3	0		1617.4	3819.9		462.3	728.9
2014	20-Jan-14	8	147.2	7		1542.4	3698.7		462.6	628.4
2014	20-Jan-14	9	211.6	8.9		1589.2	3728.3		507.1	941
2014	20-Jan-14	10	317.1	19		1594.3	3832.9		568.7	1259.3
2014	20-Jan-14	11	485.8	46.5		1440.4	3707.4		526.2	1120.4
2014	20-Jan-14	12	311	102		1134.1	3545.4		596	1316.3
2014	20-Jan-14	13	339	197.7		773.3	3144.8		557.7	1287.1
2014	20-Jan-14	14	419.1	502.8		720.1	2649.7		536.3	1052.9
2014	20-Jan-14	15	528.2	1011.2		910.8	2731.4		543.1	1177.4
2014	20-Jan-14	16	823	667.5		1741.4	3897		776	1698.8
2014	20-Jan-14	17	553.4	605.3		1727.8	4176.1		1013.6	1602.4
2014	20-Jan-14	18	555.9	556.8	0.001	1721.6	4183.1		1046.5	1502.5
2014	20-Jan-14	19	846.4	626	67.623	1737.5	4150.5		975	1573.6
2014	20-Jan-14	20	1246.4	682.4	80.265	1555.9	4076.7	0.001	886.6	1573.2
2014	20-Jan-14	21	1161.5	742.6	79.771	1358.7	3767.2	0.085	702.1	1319.5
2014	20-Jan-14	22	918.4	618.5	79.775	939.6	3343.7	0.107	569.6	1288.3
2014	20-Jan-14	23	697.7	515.6	79.575	756.6	2935.6	0.109	539.7	882.3
2014	21-Jan-14	0	558.3	381.8	79.475	736.9	2629.3	152.1	558.4	888.9
2014	21-Jan-14	1	447.8	300.5	79.765	722.4	2589.6	484.6	526.3	939.4
2014	21-Jan-14	2	370.4	228.8	79.865	720.4	2658.8	450.8	498.1	839.9
2014	21-Jan-14	3	356.9	207.5	78.076	754	2688.5	698.7	483.7	858.4
2014	21-Jan-14	4	348.3	213.9	109.652	762.2	2733.8	682.4	538.9	1365.2
2014	21-Jan-14	5	311.8	222.5	147	769.9	2738.5	735.3	517.2	1641.7
2014	21-Jan-14	6	305.6	237.8	142.1	814	2888	609.3	560.5	1904.4
2014	21-Jan-14	7	512.6	246.2	139.4	1165	3267.5	607.9	644.9	1875.9
2014	21-Jan-14	8	394.6	236.5	140.6	1166	3108	806	593.5	1612.9
2014	21-Jan-14	9	540	316.6	143	1489	3568.2	720.5	786.7	1998.1
2014	21-Jan-14	10	831.8	420	143.7	1803.2	4087.2	170.3	1029	2236.8
2014	21-Jan-14	11	1290.1	687.8	144.4	1746.1	4304	422.2	993.7	2318.1
2014	21-Jan-14	12	1514.7	888	145	1693.4	4323.4	571.9	1045.6	2288.5
2014	21-Jan-14	13	764.8	945.1	144.6	1683.8	4267.9	698.8	954.1	2356.8
2014	21-Jan-14	14	884.9	946.1	144.9	1676.8	4181.1	692.3	880.6	2797.6
2014	21-Jan-14	15	669.8	981.1	196	1691.7	4163.7	698.5	944.3	2982.4



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	21-Jan-14	16	633.1	975.5	455.503	1690.2	4136.3	911.7	868.7	2965.6
2014	21-Jan-14	17	601.5	960.4	560.3	1710.3	4115.6	1572.1	870.5	2707
2014	21-Jan-14	18	586.6	875.3	581.3	1719.6	4064	2112.8	838.3	2290.7
2014	21-Jan-14	19	576.3	899.6	601	1717.5	4004.7	2400.2	825.3	1914.5
2014	21-Jan-14	20	571.5	920.7	601.6	1727.5	3998.8	2440	811	1833.2
2014	21-Jan-14	21	577.1	866.9	602.1	1735.7	3930.4	2433.3	799.2	1688.1
2014	21-Jan-14	22	588.4	897.9	601.4	1767.3	3863.6	2424.1	840.9	1365.2
2014	21-Jan-14	23	610.8	900.4	601.4	1716.9	3785.8	2439.8	784	1182.7
2014	22-Jan-14	0	626.1	907.5	601.2	1694	3757.7	2439.8	803.9	883.3
2014	22-Jan-14	1	637.5	955.7	601.1	1759.2	3717.8	2443	818.5	1013.3
2014	22-Jan-14	2	589.1	996.5	600.9	1734.5	3741.1	2368.3	807.2	1054.1
2014	22-Jan-14	3	562.3	1007.7	599.7	1719.9	3770.4	1198.7	792.8	863.7
2014	22-Jan-14	4	563.8	981	600.3	1680.8	3781.8	215.6	862	1386.9
2014	22-Jan-14	5	558.4	958.5	600	1722	3780.9	541.6	811.7	1165.7
2014	22-Jan-14	6	573.2	981.2	600.5	2075.5	3795.7	607.7	810	1047.5
2014	22-Jan-14	7	586.4	879.3	600.5	2044.4	3742.2	589.5	796.7	1574.1
2014	22-Jan-14	8	601.4	969.8	600.7	2031.7	3832.6	707.1	806.7	1735.9
2014	22-Jan-14	9	525.9	929.3	601.2	1966.9	3877.5	885.4	828.9	1887.9
2014	22-Jan-14	10	527.8	1034.6	600.8	1974.4	3892.4	1092.1	1336.3	2165.5
2014	22-Jan-14	11	510.3	1039.6	598.3	1925.5	3888.7	1389.9	1054.1	2302
2014	22-Jan-14	12	492.5	977.6	598.2	1901.8	3827	1425.8	895	2014.6
2014	22-Jan-14	13	508.2	955.6	598.7	1874.7	3748.4	1499.6	1135.4	2480.9
2014	22-Jan-14	14	478.8	1018.7	598.4	1807.5	3720.3	1748.5	971.2	2429
2014	22-Jan-14	15	514.6	1064.6	598.2	1779.7	3704.6	2021.9	969.7	1412.3
2014	22-Jan-14	16	516.9	1015.9	597.5	1749.9	3649.2	2074.1	955.7	1236.7
2014	22-Jan-14	17	555.5	1036.7	596.9	1817.8	3547.3	2068.3	1082	2329.8
2014	22-Jan-14	18	542.2	1070.7	596.2	1837.6	3535.4	2057.8	995.2	2395.9
2014	22-Jan-14	19	524.8	1083.6	596.8	1831.5	3532.5	2061.3	993.2	2691.1
2014	22-Jan-14	20	523	1082	596.8	1845.2	3498.7	2063.1	990.1	1871.8
2014	22-Jan-14	21	530.9	1057.8	597.2	1877	3486.6	2071.4	991.7	1746.3
2014	22-Jan-14	22	524.1	1028.4	597.1	1923.1	3489.4	2072.5	948.6	1620.2
2014	22-Jan-14	23	519.9	994.9	597.4	1954.7	3512.7	2072.2	952.1	1253.7
2014	23-Jan-14	0	518.5	1052.2	597.6	2000.1	3576	2072.4	996.1	1375.2
2014	23-Jan-14	1	507.4	1079.7	597.3	2036.4	3652.6	2073.3	910.7	1284.1
2014	23-Jan-14	2	518.3	1058.8	597.4	2094.1	3706.4	2073.7	895.2	1465
2014	23-Jan-14	3	491	1036.5	596.8	2121.6	3752.5	2073.5	981.3	1764.6
2014	23-Jan-14	4	511.4	1050.5	596.5	2193.3	3858.9	2072.5	957.3	1892.3
2014	23-Jan-14	5	502.9	1028.4	596.7	2229.1	3874.2	2072.9	986.9	2273.5
2014	23-Jan-14	6	491	1043.5	595.4	2231.2	3884.2	2072	969.2	2536.8
2014	23-Jan-14	7	531.8	922.9	595.7	2307.5	3879.8	2072	971.6	2377.1
2014	23-Jan-14	8	513.3	1104.2	596.3	2277.5	3934	2060.5	1029.6	2197.9
2014	23-Jan-14	9	507.7	1080.6	597.3	2054.6	3915.1	2059.7	1031.4	2439.3
2014	23-Jan-14	10	730.3	1049.1	597.4	2048	3911.7	2058.5	1413.9	2160.6
2014	23-Jan-14	11	1142.2	1059.7	595.8	2071.4	3927.4	2058.1	1238.2	2496.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	23-Jan-14	12	1269.6	1111.1	597.5	2081.8	3925.9	2063	1393.2	3110.3
2014	23-Jan-14	13	1330.1	1183.8	597.5	2083.6	3929.2	2062.8	1489.2	3474.2
2014	23-Jan-14	14	1392.8	1258.7	597.3	2078.9	3933.2	2062.7	1094.3	3449.4
2014	23-Jan-14	15	1468.7	1283.3	597.2	2160.5	3973.5	2063	1166.8	3139
2014	23-Jan-14	16	1458.7	1264.7	596.8	2165.7	3997	2062.9	1125.7	2944.8
2014	23-Jan-14	17	1472.1	1310.2	596	2147.8	4006.9	2063.1	1243.8	2866.4
2014	23-Jan-14	18	1458.3	1393.4	595.5	2216.8	4022.7	2063.1	1071.7	2782.7
2014	23-Jan-14	19	1478.9	1375.1	594.9	2207.1	3562.2	2054.2	1042.9	2743.5
2014	23-Jan-14	20	1511.9	1354.7	594.6	2277.2	2074.2	2054.5	1067.9	2372.9
2014	23-Jan-14	21	1503.1	1361	594	2268.8	17.04	2052.2	1087.3	1988.3
2014	23-Jan-14	22	1524.7	1420.6	594.4	2264.1		2050.3	1049	2020.6
2014	23-Jan-14	23	1518.8	1352.4	593.8	2281.2		2049.5	1140.9	2022.1
2014	24-Jan-14	0	1488.1	1375.8	594.2	2270		2047.7	1093.6	1865.1
2014	24-Jan-14	1	1514.2	1426.4	594	2267.8		2047.3	1070.4	1586
2014	24-Jan-14	2	1513.8	1363.9	593.4	2261.1		2060.1	1075.5	1626.5
2014	24-Jan-14	3	1517.6	1313	592.7	2256		2067.1	1048.6	1555.7
2014	24-Jan-14	4	1480.6	1340.4	592.7	2267.9		2069	1041.4	1625.7
2014	24-Jan-14	5	1455.8	1237.4	592.6	2260.8		2071.8	1040.9	1783.2
2014	24-Jan-14	6	1462.6	1259.5	591.8	2274.2		2072	1135.2	1998.4
2014	24-Jan-14	7	1463.8	1110.7	591.7	2296.1		2076.6	1342.8	2322.7
2014	24-Jan-14	8	1565	1247.3	591.2	2276.7		2078.2	1781.4	2250.8
2014	24-Jan-14	9	1302.4	1093.4	591.3	2256.3		2077.1	1452.6	2408.1
2014	24-Jan-14	10	1420.2	1079	591.4	2225.6		2075.9	1458	2485.1
2014	24-Jan-14	11	1436.9	1007.9	594.8	2197.1		2064.6	1381.6	2334.9
2014	24-Jan-14	12	1527	1035.4	595.1	2170.7		2064.6	1257.7	2661.4
2014	24-Jan-14	13	1559.4	1094.6	594.4	2158		2072.8	1226.4	2693.2
2014	24-Jan-14	14	1530.5	1162.6	594.5	2098.5		2074.8	1205.3	2678.7
2014	24-Jan-14	15	1500.8	1148.3	555.3	1981.7		2075.2	1735.3	2554.1
2014	24-Jan-14	16	1534.9	1132.4	593.8	1997.4		2073.4	1440.3	2711.1
2014	24-Jan-14	17	1478.8	1121.7	594.5	2029.1		2072.1	1335.6	2673.9
2014	24-Jan-14	18	1524.9	1126.8	594.4	2188.1		2070.1	1528.1	2654.7
2014	24-Jan-14	19	1473	1116.2	594.7	2190.7		2067.8	1343.3	2712
2014	24-Jan-14	20	1443.4	1142.6	594.9	2195.4		2067.2	1178.5	2749.9
2014	24-Jan-14	21	1435.9	1167.8	594.4	2187.4		2064.6	1120.2	2485.5
2014	24-Jan-14	22	1474.6	1173.5	594.9	2190.7		2062.9	1184.9	2394.1
2014	24-Jan-14	23	1486.9	1154.4	595	2178.3		2061.2	1386.6	2489.2
2014	25-Jan-14	0	1493.8	1157.5	478.1	2189.3		2061.7	1190.7	2545.9
2014	25-Jan-14	1	1466.7	1200.8	235.8	2192.4		2023.5	1167.2	2425.8
2014	25-Jan-14	2	1459.4	1142.2	142.5	2207.1		1246.6	1210.7	2372.5
2014	25-Jan-14	3	1502.7	1227.2	146.1	2213.1		684.1	1154.1	2367.6
2014	25-Jan-14	4	1534.8	1184.7	146.5	2156.6		676	1244.6	2246
2014	25-Jan-14	5	1567.3	1157.4	146.3	2125.7		665.5	1185.7	2229.3
2014	25-Jan-14	6	1471.3	1186	146.4	2148.5		674.4	1265.2	2288.6
2014	25-Jan-14	7	1548.6	893	146.7	2159.1		681.1	1263.6	2538.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Jan-14	8	1450.7	1262.2	146.9	2150.3		692.2	1149.1	3084.6
2014	25-Jan-14	9	1402.9	1144.2	146.9	2133.2		702.3	1919.8	3263.8
2014	25-Jan-14	10	1369.9	1118.3	147.4	2112.2		691.3	2584.8	3196.5
2014	25-Jan-14	11	1358.6	1027.2	147.6	2063.6		691.5	2832.8	3191.8
2014	25-Jan-14	12	1351.6	1057.1	147.3	2062.4		703.2	1830.2	2670.2
2014	25-Jan-14	13	1314.3	1042.8	147.2	2027.1		707.8	1306.6	1664.4
2014	25-Jan-14	14	1361.6	984.1	146.1	1982.7		712.8	1105.7	1494.9
2014	25-Jan-14	15	1381.6	1012.6	145.5	1967.5		709.3	1070.2	1495.5
2014	25-Jan-14	16	1330.8	1011.3	147.8	1952.8		705.2	1141.4	1625.2
2014	25-Jan-14	17	1374.9	1022.2	147.4	1928		703.6	795.8	1542
2014	25-Jan-14	18	1331.9	1028	147.4	1928.2		702.6	712.3	2441.9
2014	25-Jan-14	19	904.9	1014.2	148.2	1923.6		700.4	835.5	2638.7
2014	25-Jan-14	20	1232.6	914.8	149.7	1922.8		700	978.8	2583.9
2014	25-Jan-14	21	1310.3	591.4	149.4	1926		700.3	1225.3	2797.5
2014	25-Jan-14	22	1341.9	695.8	149.5	1918.1		699.2	1505.7	2862.7
2014	25-Jan-14	23	1361.3	794.7	149.7	1916.9		702.2	1465.9	2614.4
2014	26-Jan-14	0	1351.3	807	149.8	1911.9	0	703.3	1134.4	2260.4
2014	26-Jan-14	1	1325.1	849.3	150.3	1915.1	0	703.4	800.3	1546.1
2014	26-Jan-14	2	1360.8	893.3	150.1	1910.5	153.4	703.9	809.4	1709.8
2014	26-Jan-14	3	1307	922.7	150.3	1912	365	704.3	1035	1678.9
2014	26-Jan-14	4	1280.7	970.8	150.1	1909.6	534.9	704.1	1070.3	1644.1
2014	26-Jan-14	5	1326	1002.4	150.2	1912.2	487.1	703.3	1038	1553.1
2014	26-Jan-14	6	1288.3	1023.6	149.8	1920.6	379.6	702.7	1022.1	1391.1
2014	26-Jan-14	7	1318	908	150.4	1957.8	380	701.5	1037.5	1614.7
2014	26-Jan-14	8	1463.7	994.3	150.1	1946	444.2	701.4	1074	1765
2014	26-Jan-14	9	1370.2	926.3	150.5	1948.9	783.1	700.5	908.1	1785.8
2014	26-Jan-14	10	1373.2	1039.3	151.1	1935.6	1641.7	702.3	926.3	2009.9
2014	26-Jan-14	11	1428.8	877.2	151.1	1922.1	2191.4	702.3	1007.9	2032.7
2014	26-Jan-14	12	1447.1	828.9	151	1930.5	2640.3	704.9	920.4	2029.7
2014	26-Jan-14	13	1519	985.3	150.6	1927.7	3205	700.1	757.2	2061.4
2014	26-Jan-14	14	1457.1	907.1	150.5	1930.5	3552.5	694	859.5	2021.8
2014	26-Jan-14	15	1462.5	991.6	150.4	1919.4	3604.5	693.5	1080.3	1547.1
2014	26-Jan-14	16	1502.6	979.7	150	1929.2	3437.9	693.3	1056.6	1825.1
2014	26-Jan-14	17	1467	1056.7	150	1939.7	3763.8	692.7	1358.7	2354.6
2014	26-Jan-14	18	1492.3	1037.8	150.2	1943	3971.5	692.3	1573.6	2757.4
2014	26-Jan-14	19	1545.8	1046.9	150.3	1948.4	3977.9	692.4	1337.2	2612.9
2014	26-Jan-14	20	1484.7	1069.5	150.2	1951	4006.7	694.1	1246.8	2677.4
2014	26-Jan-14	21	1453.6	1033.9	150.3	1967.8	3833.7	694.3	1103.4	2387.1
2014	26-Jan-14	22	1232.5	810.1	150	1677.3	3599	693.7	854.8	1863.2
2014	26-Jan-14	23	818.2	540.9	149.7	1045.8	3193.6	693.1	536.2	1267
2014	27-Jan-14	0	572.4	291.3	149.3	681.1	2675	691.5	510.3	1235.5
2014	27-Jan-14	1	909.2	560.2	148.8	617.8	2403.9	689.9	474.3	1188.8
2014	27-Jan-14	2	685.2	432.4	148.4	624.7	2412.7	691.7	455.3	1262.8
2014	27-Jan-14	3	513.8	365.8	147.9	634.8	2410.7	692.6	458.9	1361.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	27-Jan-14	4	517.6	402.5	151.7	647.3	2453	692.8	460.4	1295.3
2014	27-Jan-14	5	656.7	915	274.2	1062.1	2871.5	691.9	462	1038.7
2014	27-Jan-14	6	1294	1038.8	299.8	1700.2	3397.3	690.5	589.1	1501.2
2014	27-Jan-14	7	1874	1480.8	299.6	1791.7	3640.4	690.1	1051	1913.6
2014	27-Jan-14	8	880.3	1632.2	299.6	1774.2	3853	691.2	1171.9	1836.5
2014	27-Jan-14	9	680	1510.5	299.7	1577.2	3780.9	672.3	1015.4	1711.7
2014	27-Jan-14	10	363.3	995	299.4	1455.7	3487.7	673.5	1144.1	2069.8
2014	27-Jan-14	11	304.9	934.7	298.1	1468.1	3443.6	666	1261.7	2059.9
2014	27-Jan-14	12	277.6	688.3	298.4	1518.1	3442	671	1214	2085.9
2014	27-Jan-14	13	339.4	764.7	299	1750	3678.7	678	1293	2329.7
2014	27-Jan-14	14	291.1	601.8	298.6	1470.7	3305	679.6	895.9	2172.8
2014	27-Jan-14	15	294.1	758.3	298.5	1570.3	2379.6	673.6	803.8	2137.1
2014	27-Jan-14	16	547.1	1309.6	218.5	1786.2	2243.5	670.4	1099.9	2500.6
2014	27-Jan-14	17	1346.4	1591.6	143.3	1770.5	2266.5	671.5	1126.1	2522.3
2014	27-Jan-14	18	1563	1516.1	144.3	1770.8	2284	671.9	1140.3	2590.3
2014	27-Jan-14	19	1466.6	1476	144.1	1739.9	2267	672.4	1989.3	2663.6
2014	27-Jan-14	20	1336	1480.7	144.5	1752.2	2262.1	672	2749.2	2637.2
2014	27-Jan-14	21	1180	1287.2	144.7	1644	2243.8	671.9	2481	2454.8
2014	27-Jan-14	22	1114.3	1358.5	144.8	1702.8	2473.9	672.7	2164.8	2493.9
2014	27-Jan-14	23	874.1	957.1	144.2	1604.9	3034.1	672.6	1919.2	2602.4
2014	28-Jan-14	0	583.6	523.2	161	1609.6	3380.1	672.2	1298.4	2520
2014	28-Jan-14	1	1262.9	755.3	280.2	1623.1	3351.7	679.3	1210.6	2447.6
2014	28-Jan-14	2	517.5	674.5	299.7	1657.8	3329.5	675.8	1213.9	2439.5
2014	28-Jan-14	3	326.3	668	300.1	1611.1	3304.8	676.5	1240.2	2460.7
2014	28-Jan-14	4	692.4	1185.8	354.1	1790.8	3539.4	675.8	1392.7	2407.2
2014	28-Jan-14	5	1331.6	1264.3	452.1	1777.3	3726.1	1419.5	1610.1	2568.4
2014	28-Jan-14	6	1591.9	1495.5	570	1795.7	3684	2085.4	2157.8	2923.2
2014	28-Jan-14	7	1596.2	1366.3	577.6	1842.5	3637	2077.7	2189.5	3482.3
2014	28-Jan-14	8	1738.2	898.5	585.6	1827.5	3657.5	2067.4	2022.9	3114.8
2014	28-Jan-14	9	732.3	491.5	571.2	1735.9	3691	2060.3	1490.7	3073.1
2014	28-Jan-14	10	610	526.6	585.2	1689.1	3644.7	2026.3	1367.7	2829.6
2014	28-Jan-14	11	743.5	535.5	569.4	1730.8	3662.3	2047.1	1719.8	2816.1
2014	28-Jan-14	12	1571.4	527.8	549.5	1857.9	3663.4	2049.7	1221.5	3003.6
2014	28-Jan-14	13	668.4	531.7	550.3	1841.3	3639.1	1939.1	913.9	2980.8
2014	28-Jan-14	14	662.1	528.6	585.9	1829	3605.9	1776.3	1415.7	2837.8
2014	28-Jan-14	15	593.3	524.4	569.2	1863.1	3580.3	2045	1354.5	3008.7
2014	28-Jan-14	16	583.3	518	582.9	1855.3	3564.6	2020.9	1010.1	2765.4
2014	28-Jan-14	17	602.2	527.1	584.9	1837.8	3541.1	2025.3	964.7	2270.2
2014	28-Jan-14	18	608.8	531.6	584.6	1840.2	3518.9	1977.3	991.9	2297.6
2014	28-Jan-14	19	583.4	531.6	584.1	1824.7	3516.3	2043.4	930.5	1871
2014	28-Jan-14	20	588.4	536.4	582.4	1832.4	3528.6	2045.7	952.5	1955.8
2014	28-Jan-14	21	569.8	523.1	540.7	1833.3	3498.7	2042.2	921.2	1964.4
2014	28-Jan-14	22	575.4	534	388.4	1605.8	3401.7	1851.4	953.6	1887.6
2014	28-Jan-14	23	626.5	522.2	298.3	1518.9	3450.3	1089.9	849.1	2207.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	29-Jan-14	0	625.6	527.7	200.3	1505.6	3454.3	630.4	732	2361.9
2014	29-Jan-14	1	598.4	545.7	146.1	1504.3	3464.1	769.1	667.6	2136.4
2014	29-Jan-14	2	649.5	541.3	148.8	1515.5	3448.9	796.5	812.4	2361.5
2014	29-Jan-14	3	708.6	560.3	149.7	1508.9	3446.9	615.8	1167.4	2259
2014	29-Jan-14	4	700.1	537	172	1567.6	3451.7	612.3	1030.9	2247.3
2014	29-Jan-14	5	680	537.1	342.2	1609.8	3501.6	799.7	818.9	2287.6
2014	29-Jan-14	6	664.9	558.6	537.8	1622.6	3502.9	1922.5	824	2269.1
2014	29-Jan-14	7	680	526.6	584.2	1649.5	3456.1	2074.5	787	2399.5
2014	29-Jan-14	8	656	559.2	582.4	1733.7	3507	2064	1203.9	2279.4
2014	29-Jan-14	9	645.3	550	581.9	1723.2	3528.8	2058.3	1392	3348.5
2014	29-Jan-14	10	592	553.5	581.8	1708.3	3540.7	2061.2	1634.2	4145.7
2014	29-Jan-14	11	577.8	523.7	581.9	1715.4	3528.1	2061.2	1448.6	4073.7
2014	29-Jan-14	12	618.6	792.1	581.7	1722.1	3536.6	2060.3	1565.1	3342
2014	29-Jan-14	13	652.5	1434.4	581.3	1753.1	3542.1	2058.7	1646.3	3433.7
2014	29-Jan-14	14	665.3	1425.2	581.8	1726.5	3545.4	2056.7	2087.5	3651.5
2014	29-Jan-14	15	630.9	1496.3	581.6	1720	3538.5	2053.9	1933	3661.2
2014	29-Jan-14	16	627.1	1459.9	581.4	1726.5	3532	2052.6	2120.7	3626.9
2014	29-Jan-14	17	678	1496.7	581.4	1726	3590	2051.6	2036.8	3224.4
2014	29-Jan-14	18	675.4	1476.8	581.6	1719.1	3578	2051.3	1498	3273.8
2014	29-Jan-14	19	651.6	1475.8	581.4	1750.1	3633.5	2050.8	2175.1	3133.3
2014	29-Jan-14	20	662.9	1434.7	581	1775.6	3637.9	2051.1	1936.2	3153.6
2014	29-Jan-14	21	670.8	1429.3	581.1	1805.1	3651.2	2051.3	1054.5	3213.3
2014	29-Jan-14	22	706.5	1418	581	1809.4	3649.5	2051.2	1124.8	2915.2
2014	29-Jan-14	23	655.2	1288.6	521.2	1821	3644.5	1825.6	1198.3	2109.2
2014	30-Jan-14	0	691.4	1415.6	270.8	1815	3672.5	835.2	768.7	2307.3
2014	30-Jan-14	1	646.2	1437.8	144.1	1817.9	3710	716	691.9	2716.3
2014	30-Jan-14	2	681.7	1381.2	146.6	1823.1	3702.3	679.1	700.8	1634.6
2014	30-Jan-14	3	752.7	1403.1	147.8	1818.5	3693.8	675.4	762.2	1793.7
2014	30-Jan-14	4	761.8	1432.5	148.3	1805.7	3696.5	677.8	751.1	1720.3
2014	30-Jan-14	5	752.5	1447.5	148.7	1820.9	3722.9	674.8	826	1609.1
2014	30-Jan-14	6	805.5	1393.7	153	1833.1	3737.6	662.6	740.5	1510.3
2014	30-Jan-14	7	756	1236	277	1854	3732.8	827.3	793.8	2221.7
2014	30-Jan-14	8	701	711.4	467.7	1823.4	3707.6	1080.3	906	2093.6
2014	30-Jan-14	9	622.4	536.3	492.7	1805.4	2798.3	1398.7	888.6	1759.5
2014	30-Jan-14	10	644	559.2	511.5	1806.8	3319.4	1604.2	914.8	1900.4
2014	30-Jan-14	11	714.9	577.1	517.2	1828.7	3755.3	1813.1	907.8	2326.6
2014	30-Jan-14	12	734	566.4	466	1751.7	3841.4	2059.7	1007.7	2452
2014	30-Jan-14	13	742.8	586.4	398.1	1774.6	3879.8	1727.1	950.5	2345.9
2014	30-Jan-14	14	682.9	572.1	247.8	1618.2	3837.5	915	889.8	2093.5
2014	30-Jan-14	15	543.9	479.7	41.728	1461.4	3688.4	685.6	702.9	2028.2
2014	30-Jan-14	16	1214.1	523.3		1428.3	3669.8	973.5	650.8	2218.6
2014	30-Jan-14	17	649	597.3		1608	3853.7	2144.9	766.9	2081.6
2014	30-Jan-14	18	738.7	615.3		1762	3939.2	2392.3	912.7	2174.5
2014	30-Jan-14	19	677	625.6		1774.3	3942.9	1748.7	978.2	2085.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	30-Jan-14	20	677.2	644.1		1800.5	3979		1006.6	2203.1
2014	30-Jan-14	21	670.5	659.4		1799.2	3975.8		950.8	2318.4
2014	30-Jan-14	22	649.3	660.2		1801.1	3986.5		933.2	2125.5
2014	30-Jan-14	23	693.4	660.3		1807.4	3983.8		789.3	1934.6
2014	31-Jan-14	0	652.8	658.4		1522.1	3948.8		624.8	1188.3
2014	31-Jan-14	1	708	669.5		1589.6	3901.1		576	54.67
2014	31-Jan-14	2	728.4	606.1		1574.4	3703.9		496.1	
2014	31-Jan-14	3	718.1	622.4		1659.8	3588.2		522.4	
2014	31-Jan-14	4	787.8	664.9		1845.1	3761.9		588.1	
2014	31-Jan-14	5	744	692.8		1767.5	3926		472.3	
2014	31-Jan-14	6	803.1	753		1782	3976.7		10.64	
2014	31-Jan-14	7	773.8	745.5		1806.5	3948.3			
2014	31-Jan-14	8	803.9	823.8		1802.1	4001.2			
2014	31-Jan-14	9	800.2	824.5		1805.2	3978.2			
2014	31-Jan-14	10	800.2	823.8		1781.8	4011.7			
2014	31-Jan-14	11	675.2	732.7		1593.3	3829.8			
2014	31-Jan-14	12	465	410.3		906.9	3526.9			
2014	31-Jan-14	13	498	290		708.4	3197.9			
2014	31-Jan-14	14	377.9	187.2		715.7	2741.7			
2014	31-Jan-14	15	258	148		710.9	2512.9			
2014	31-Jan-14	16	186.2	224.2		703.2	2526.7			
2014	31-Jan-14	17	219.8	349.4		883.4	3034.5			
2014	31-Jan-14	18	321.9	564.7		1208.2	3275.3			
2014	31-Jan-14	19	545.9	1053.2		1492.5	3433.9			
2014	31-Jan-14	20	918.4	1662.6		1871.3	3796.4			
2014	31-Jan-14	21	1134.8	759.6		1768.4	3880.2			
2014	31-Jan-14	22	1424	682.4		1619.5	3669.4			
2014	31-Jan-14	23	1747.5	761.2		1640.2	3646			
2014	1-Feb-14	0	1079.2	690.8		1526.1	3750.7			
2014	1-Feb-14	1	812.7	497.6		1589.6	3564.9			
2014	1-Feb-14	2	822.5	274.7		1603	3550.1			
2014	1-Feb-14	3	828.3	57.19		1618.9	3715.4			
2014	1-Feb-14	4	810.1			1556.4	3778.7			
2014	1-Feb-14	5	809.1			1603.1	3859.1			
2014	1-Feb-14	6	842.5			1628.1	3931.8			
2014	1-Feb-14	7	881.6			1640	3875.3			
2014	1-Feb-14	8	876.8			1619.4	3879.8			
2014	1-Feb-14	9	762.7			1601.5	3909.3			
2014	1-Feb-14	10	823			1559.8	3894.3			
2014	1-Feb-14	11	717.9			1066.2	3557.5			
2014	1-Feb-14	12	746.5			731.6	3547.3			
2014	1-Feb-14	13	613.9			706.6	3247			
2014	1-Feb-14	14	494.9			691.3	2966.9			
2014	1-Feb-14	15	321			695.3	2706.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	1-Feb-14	16	178.8			700.2	2818.9			
2014	1-Feb-14	17	259.6			732.8	3209			
2014	1-Feb-14	18	382			1061.4	3477.9			
2014	1-Feb-14	19	607.7			903.1	3519.6			
2014	1-Feb-14	20	718.7			783.7	3494.4			
2014	1-Feb-14	21	595.1			757.3	3279.1			
2014	1-Feb-14	22	472.5			753	3157.7			
2014	1-Feb-14	23	367.7			763.7	2970.2			
2014	2-Feb-14	0	525.3			748.9	2684.4			
2014	2-Feb-14	1	371.4			743	2509.6			
2014	2-Feb-14	2	279.5			740.3	2454.2			
2014	2-Feb-14	3	531.6			742.1	2397.4			
2014	2-Feb-14	4	510.3			733.6	2518.3			
2014	2-Feb-14	5	585.4			734.2	2724.7			
2014	2-Feb-14	6	687.3			737.3	2900.8			
2014	2-Feb-14	7	698.6			718.8	2849.5			
2014	2-Feb-14	8	845.4			718.3	2911.4			
2014	2-Feb-14	9	517.1			745.5	3100.8			
2014	2-Feb-14	10	477.8			703.1	3353.2			
2014	2-Feb-14	11	480.7			701.2	3285.1			
2014	2-Feb-14	12	495			789	3503.6			
2014	2-Feb-14	13	752			851	3606.9			
2014	2-Feb-14	14	496.9			719.4	3328			
2014	2-Feb-14	15	420.7			751.8	3101.5			
2014	2-Feb-14	16	594.6			772	3224.6			
2014	2-Feb-14	17	949			860.9	3548.5			
2014	2-Feb-14	18	1525.8			893	3452.1			
2014	2-Feb-14	19	1032.4			904.4	3528.4			
2014	2-Feb-14	20	826.3			872.1	3435.6			
2014	2-Feb-14	21	858.6			915.6	3500			
2014	2-Feb-14	22	813.9			915.3	3582.6			
2014	2-Feb-14	23	527.2			827	3345.5			
2014	3-Feb-14	0	526.5			825.1	2978.6			
2014	3-Feb-14	1	474.6			809.8	2515.1			
2014	3-Feb-14	2	345.6			806.3	2275.7			
2014	3-Feb-14	3	242.6			803.8	2296.1			
2014	3-Feb-14	4	210.5			804.4	2363.7			
2014	3-Feb-14	5	214.2			805.4	2397.4			
2014	3-Feb-14	6	308.3			900.9	2810.1			
2014	3-Feb-14	7	438.6			1245.9	3370.8			
2014	3-Feb-14	8	677.4			1717.9	3652.3			
2014	3-Feb-14	9	963.5			1889.4	3646.9			
2014	3-Feb-14	10	1564.8			1873.9	3652.6			
2014	3-Feb-14	11	1787.8			1861.5	3615.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Feb-14	12	800.2			1845.7	3604.9			
2014	3-Feb-14	13	659.8			1733.8	3544.5			
2014	3-Feb-14	14	564			1730.6	3546.6			
2014	3-Feb-14	15	498.5			1767.6	3595.8			
2014	3-Feb-14	16	534.5			1790.5	3564			
2014	3-Feb-14	17	518.7			1536.9	3452			
2014	3-Feb-14	18	516.2			1800.4	3563.8			
2014	3-Feb-14	19	506			1811.2	3546.7			
2014	3-Feb-14	20	561			1839	3542.9			
2014	3-Feb-14	21	618.9			1758	3508.3			
2014	3-Feb-14	22	615.6			1564.6	3374.9			
2014	3-Feb-14	23	733.3			1478.5	3109.3			
2014	4-Feb-14	0	842.7			1137.6	2906.6			
2014	4-Feb-14	1	719.7			840	2799.8			
2014	4-Feb-14	2	687.1			826.1	2712			
2014	4-Feb-14	3	687.4			820	2866.8			
2014	4-Feb-14	4	440.3			815	2649.5			
2014	4-Feb-14	5	590.9			908.8	3001.3			
2014	4-Feb-14	6	924.2			1284.8	3372			
2014	4-Feb-14	7	1354.3			1734.6	3385.3			
2014	4-Feb-14	8	1494.2			1806.2	3422.4			
2014	4-Feb-14	9	1603.1			1785.3	3434.9			
2014	4-Feb-14	10	1649.2			1752	3432.8			
2014	4-Feb-14	11	1696			1738.3	3461.6			
2014	4-Feb-14	12	1698.6			1682.2	3496.1			
2014	4-Feb-14	13	843.6			1657.3	3530.8			
2014	4-Feb-14	14	652.9			1425.2	3332			
2014	4-Feb-14	15	626			1403.1	3173.3			
2014	4-Feb-14	16	647.9			1413.4	3323			
2014	4-Feb-14	17	660.8			1642.6	3558			
2014	4-Feb-14	18	655.7			1686.2	3597.2			
2014	4-Feb-14	19	709.6			1721	3630.6			
2014	4-Feb-14	20	697.4			1716.6	3631.4			
2014	4-Feb-14	21	721			1711.7	3650.6			
2014	4-Feb-14	22	742.7			1533.4	3572.5			
2014	4-Feb-14	23	700.9			1505.4	3492.4			
2014	5-Feb-14	0	447.4			1122.5	3271.9			
2014	5-Feb-14	1	838.3			757.6	3248.1			
2014	5-Feb-14	2	980.6			728.7	3068.5			
2014	5-Feb-14	3	609.1	0		732.1	2831.5			
2014	5-Feb-14	4	575.8	0		738	2809.4			
2014	5-Feb-14	5	572.1	0		737	2892.5			
2014	5-Feb-14	6	1070.6	0		859.3	3242.5			
2014	5-Feb-14	7	2016	0.8		1534.8	3558.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	5-Feb-14	8	1117.8	0		1774.5	3636.7			
2014	5-Feb-14	9	754.8	0		1752.2	3602			
2014	5-Feb-14	10	748.5	0		1770.2	3665.2			
2014	5-Feb-14	11	777.1	0		1779.2	3677.4			
2014	5-Feb-14	12	761	0		1767.5	3661.5			
2014	5-Feb-14	13	778.5	0		1756.4	3668.9			
2014	5-Feb-14	14	741.8	0		1658.5	3618			
2014	5-Feb-14	15	672.1	0		1674.5	3640.2			
2014	5-Feb-14	16	721.9	0		1722.9	3652.3			
2014	5-Feb-14	17	702.2	0		1756.4	3666.7			
2014	5-Feb-14	18	714.6	0		1699.2	3660.9			
2014	5-Feb-14	19	719.2	0		1678.8	3684			
2014	5-Feb-14	20	705.2	0		1699.9	3687.6			
2014	5-Feb-14	21	727.5	3.1		1713	3668			
2014	5-Feb-14	22	751.5	53.1		1745.7	3672.4			
2014	5-Feb-14	23	724.6	129.4		1691.7	3642.2			
2014	6-Feb-14	0	578.9	246.2		1629.5	3560.8			
2014	6-Feb-14	1	515.8	338		1736.6	3673.8			
2014	6-Feb-14	2	412.1	610.8		1595.4	3608.5			
2014	6-Feb-14	3	376.4	641.6		1728.2	3643.1			
2014	6-Feb-14	4	706.4	1002.5		1740.3	3635.9			
2014	6-Feb-14	5	1052.7	1366.1		1754.3	3631.5			
2014	6-Feb-14	6	993.4	1073.5		1752.3	3605.8			
2014	6-Feb-14	7	862.9	1425.6		1743.2	3504.7			
2014	6-Feb-14	8	731	1019.1		1729	3543.5			
2014	6-Feb-14	9	386	1021.8		1724.5	3555.7			
2014	6-Feb-14	10	228.5	839.1		1720.7	3554.7			
2014	6-Feb-14	11	228.5	681.5		1600.7	3533.5			
2014	6-Feb-14	12	202.2	694.4		1642.4	3555.6			
2014	6-Feb-14	13	180.4	705.7		1762.4	3617.7			
2014	6-Feb-14	14	212.8	818.3		1771.7	3640.3			
2014	6-Feb-14	15	264.4	947.9		1785.4	3657.7			
2014	6-Feb-14	16	328.8	1045.2		1778.9	3680.1			
2014	6-Feb-14	17	365.2	1078.3		1678.1	3667.4			
2014	6-Feb-14	18	382.2	1148.7		1756.4	3678.3		0	
2014	6-Feb-14	19	411.3	1184		1743.7	3677.5		0	
2014	6-Feb-14	20	404.6	1170.9		1745.8	3658.7		4	
2014	6-Feb-14	21	438.3	1149.4		1742.2	3627.8		17.7	
2014	6-Feb-14	22	440.8	1123.3		1649.6	3561.9		31	
2014	6-Feb-14	23	1155.3	1110.1		1603.4	3511.3		31.3	
2014	7-Feb-14	0	1611.1	1002.1		1625	3447		29	
2014	7-Feb-14	1	1495.8	1032.8		1641.5	3341.7		44	
2014	7-Feb-14	2	1437.2	732.3		1503.8	3184.7		60	
2014	7-Feb-14	3	1652.1	1157.5		1618.7	3327.6		35.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	7-Feb-14	4	1770.6	1177.1		1612.5	3349.5		34.1	
2014	7-Feb-14	5	1733.3	1152.6		1678.8	3481.1		41.5	
2014	7-Feb-14	6	843.1	1180.7		1676.3	3469.8		83.4	
2014	7-Feb-14	7	649.7	988.2		1573.7	3430.7		108.9	
2014	7-Feb-14	8	927.3	1338.3		1647.4	3409		88.8	
2014	7-Feb-14	9	403.4	1268.4		1696.2	3436.8		93.5	
2014	7-Feb-14	10	435.4	1371.3		1680.9	3458.2		79	
2014	7-Feb-14	11	97.65	1419.4		1706.4	3411.1		73.5	
2014	7-Feb-14	12		1387		1673.1	3395.9		83	
2014	7-Feb-14	13		1283.9		1691.1	3433.4		150	
2014	7-Feb-14	14		866.8		1528.8	3235.8		216	
2014	7-Feb-14	15		787.9		1453.9	3020.4		293.7	
2014	7-Feb-14	16		530.6		1433.3	2667.1		503.6	
2014	7-Feb-14	17		576.7		1453.3	2756.7		597.8	
2014	7-Feb-14	18		1124.9		1693.6	3170		889.6	
2014	7-Feb-14	19		843.2		1682.3	3459.3		726.6	
2014	7-Feb-14	20		498.7		1685.4	3442.9		648.3	
2014	7-Feb-14	21		515.6		1684.7	3419.2		565.4	
2014	7-Feb-14	22		484.8		1677.4	3395.2		538.7	1.65
2014	7-Feb-14	23		454.8		1520.9	3312.8		533.6	4.7
2014	8-Feb-14	0		501.9		1623.7	3354.1		635.2	2.2
2014	8-Feb-14	1		980.2		1631.8	3334.4		952.9	2.134
2014	8-Feb-14	2		1099.3		1603	3307.5		803.1	16.4
2014	8-Feb-14	3		1250.5		1569.8	3288.3		743.1	18.9
2014	8-Feb-14	4		1194.1		1547.8	3274.1		727.1	8.7
2014	8-Feb-14	5		1208.3		1346.4	3280		731.2	22.5
2014	8-Feb-14	6		1186.1		1286.7	3271		730.9	20.5
2014	8-Feb-14	7		961.7		1369	3259.7		729.2	18.4
2014	8-Feb-14	8		1258.2		1364.8	3293.9		770.8	40.4
2014	8-Feb-14	9		1235.7		1382	3309.6		734.5	2.1
2014	8-Feb-14	10		1156.6		1388.5	3351.9		800.5	49.6
2014	8-Feb-14	11		1216.7		1342.9	3370.8		1369.8	192
2014	8-Feb-14	12		1239.8		1249.6	3367.9		1752.9	332.7
2014	8-Feb-14	13		1283.5		1248.1	3371.4		1782.3	795.8
2014	8-Feb-14	14		1273.1		1324.6	3375.5		1497.2	1553
2014	8-Feb-14	15		1292		1363.2	3389.5		1876.5	2205.4
2014	8-Feb-14	16		1182.6		1374.4	3386.7		1953.3	2757.6
2014	8-Feb-14	17		1220.4		1359.1	3423.4		2077.8	2615.6
2014	8-Feb-14	18		1248.9		1505.5	3447.2		1782.8	2837.1
2014	8-Feb-14	19		1304		1604.1	3418		1304.1	2777.6
2014	8-Feb-14	20		1277.8		1615	3428.3		1289.9	2469.2
2014	8-Feb-14	21		1299.3		1611.6	3434.3		1435.6	2459.7
2014	8-Feb-14	22		1307.2		1618.6	3430.5		1473	2523.5
2014	8-Feb-14	23		1316.1		1586.9	3425.8		1518.5	2463.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	9-Feb-14	0		1319		1617.7	3437.8		1510.2	2538.7
2014	9-Feb-14	1		1226		1609.9	3429		1456.2	2747.6
2014	9-Feb-14	2		1332.3		1617.4	3414.1		1624.7	2726.5
2014	9-Feb-14	3		1257.5		1612.7	3383.1		1132.1	2662.6
2014	9-Feb-14	4		1244		1577.7	3367.6		1053.4	2264.4
2014	9-Feb-14	5		1295.6		1410.2	3434.3		1188	2349.4
2014	9-Feb-14	6		1265.1		1398.4	3426		1655.5	2646.8
2014	9-Feb-14	7		1176.5		1421.8	3412.4		1721.4	2746.1
2014	9-Feb-14	8		1448.5		1411.5	3444.7		1387.9	2781.4
2014	9-Feb-14	9		1391.9		1408.5	3432.7		1711.1	2388.8
2014	9-Feb-14	10		1429.7		1391.8	3448.6		1996.9	2135.8
2014	9-Feb-14	11		1362.9		1371.6	3432.3		1639.8	1906.6
2014	9-Feb-14	12		1400.5		1402.3	3400.1		1657.5	2487.7
2014	9-Feb-14	13		1385.7		1436.5	3378		1485.2	2681.3
2014	9-Feb-14	14		1354.3		1440.5	3355.8		1284.8	2669.2
2014	9-Feb-14	15	0	1374.6		1428.4	3358.3		1189.4	3129.9
2014	9-Feb-14	16	0	1385.6		1378	3372.7		787.4	3136.7
2014	9-Feb-14	17	0	1367.3		1542.7	3382.3		650.2	3092.6
2014	9-Feb-14	18	0.9	1445.3		1669	3383		739.8	3020.9
2014	9-Feb-14	19	0	1393.7		1659.5	3388.6		898.5	3176.1
2014	9-Feb-14	20	0	1316		1650.7	3385.7		873.6	2931.5
2014	9-Feb-14	21	0	1315.6		1656.9	3390.5		830.6	3111.1
2014	9-Feb-14	22	0	1361.7		1626.9	3394.1		1011.6	3067.4
2014	9-Feb-14	23	0	1224.4		1585.9	3350.3		1380.2	3015.1
2014	10-Feb-14	0	26.2	534.7		1349.9	3165.7		994.7	2189.5
2014	10-Feb-14	1	135.1	559.6		1350.3	3208.1		827.7	2218.1
2014	10-Feb-14	2	99.1	556.1		1470.8	3214.8		929.2	2547.7
2014	10-Feb-14	3	229.7	554.8		1590.1	3306.7		1125.4	2651.3
2014	10-Feb-14	4	382.4	556.7		1602.6	3303.8		1029.1	3062.5
2014	10-Feb-14	5	653.7	529.7		1585.9	3283.6		1149.3	3037.2
2014	10-Feb-14	6	477.7	547.2		1590.1	3303.5		1755.1	3354.4
2014	10-Feb-14	7	308.4	474.3		1610.5	3282.7		1365.3	3294.1
2014	10-Feb-14	8	565.3	567.2		1596.8	3332.8		1628.4	3279.7
2014	10-Feb-14	9	509.9	516.2		1584	3377.3		2038.5	3287.7
2014	10-Feb-14	10	280	498.7		1562.4	3363		2332.1	3337.8
2014	10-Feb-14	11	294.2	507.7		1554.2	3372.2		2232.9	3489.2
2014	10-Feb-14	12	295.9	504.3		1552.3	3367.2		2351	3640.8
2014	10-Feb-14	13	295.6	507.2		1552.2	3381.5		2524.8	3296.3
2014	10-Feb-14	14	301.2	486.9		1552.4	3362.5		2559.9	3672.2
2014	10-Feb-14	15	291.3	503		1556.2	3342.9		2529.2	3865.1
2014	10-Feb-14	16	292	508.5		1545.7	3351.9	0.014	2390.7	3711.3
2014	10-Feb-14	17	292.7	513		1566.6	3329.3	0.069	2361.4	3570
2014	10-Feb-14	18	324.8	502.9		1568.4	3302.7	0.062	2018.1	3539.8
2014	10-Feb-14	19	384.7	536		1566.3	3324.7	0.062	1932	3527.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	10-Feb-14	20	402.9	520.5	0.033	1577.6	3327.7	0.062	2049	3457.5
2014	10-Feb-14	21	350.1	508.9	0.076	1580.8	3328.8	0.062	1914.1	3192.7
2014	10-Feb-14	22	343.4	445.1	0.076	1567.9	3363.9	0.062	1484.9	3250.3
2014	10-Feb-14	23	379.3	545.5	0.076	1574.2	3405	0.064	1229.3	3165.6
2014	11-Feb-14	0	756.1	541.9	0.072	1578.2	3428.1	0.114	1468.1	3109.4
2014	11-Feb-14	1	1400.2	1259.2	0.05	1584	3470	0.109	1629.3	3038.1
2014	11-Feb-14	2	1789.3	1396.6	19.426	1625.4	3514.3	0.104	1299	3097.9
2014	11-Feb-14	3	829.3	1367	65.807	1623.8	3536.5	181.181	670.4	3092.8
2014	11-Feb-14	4	749.1	1383.1	136.148	1640.2	3548.6	420.562	628.1	2899.6
2014	11-Feb-14	5	718	1416.6	161.4	1640.7	3567.1	424.662	931.4	2795.5
2014	11-Feb-14	6	745.1	1361.7	227.2	1644.1	3575.1	403.058	812.8	2768.5
2014	11-Feb-14	7	746.7	1264	363.9	1624.8	3486.7	402.1	770.7	2736.1
2014	11-Feb-14	8	705.4	1473.7	308.4	1627.5	3462.6	465.7	820.8	3218
2014	11-Feb-14	9	643.2	1341.6	154.4	1597.3	3395	488.9	1398.6	3816.5
2014	11-Feb-14	10	671.3	1382.1	147.5	1571.5	3362	501.501	1989.6	3885.3
2014	11-Feb-14	11	669.7	1429.6	141.9	1544.9	3410.8	526.7	2118.4	3843
2014	11-Feb-14	12	683.2	1391.2	142.7	1523.3	3434.3	694.5	2018.8	3493.7
2014	11-Feb-14	13	714.9	1426.6	180.4	1520.3	3423.7	941.7	1539.6	3355.2
2014	11-Feb-14	14	695.1	1434.9	164.9	1516.6	3492.1	1146.7	1713.5	3400.2
2014	11-Feb-14	15	683.3	1460.7	162.6	1518.8	3517.9	1334	1619.3	3259.7
2014	11-Feb-14	16	684	1460.9	162	1545.1	3535.2	1534	1608.6	3181.8
2014	11-Feb-14	17	738.2	1322.5	173.9	1569.6	3590.9	1784.2	1658.3	3143.6
2014	11-Feb-14	18	722	1516.6	295.8	1595.2	3611.6	1641.6	1325.1	3236.9
2014	11-Feb-14	19	734.1	1524.1	482.1	1627.1	3675.8	1886	1281.1	3433
2014	11-Feb-14	20	751.9	1370.8	546.1	1664.3	3714	2147	1521.2	3488.1
2014	11-Feb-14	21	766.6	627.5	538.9	1723.9	3677.8	2138.1	1720	4212.2
2014	11-Feb-14	22	732.2	606	518.5	1755.2	3640.1	2259.1	1583.5	4388.1
2014	11-Feb-14	23	709.4	611.9	517.3	1786.1	3610	2160	1364.1	4054.5
2014	12-Feb-14	0	696.6	575.7	428.8	1808.4	3594.6	2026.8	1385.2	3589.4
2014	12-Feb-14	1	682.1	583.8	339.3	1811.4	3547.4	1469.7	1857.9	3437
2014	12-Feb-14	2	670.3	590.5	254.3	1805.8	3507.5	911.4	2438.5	3381.3
2014	12-Feb-14	3	658	572.2	385.2	1805.4	3497.7	702.1	2433	3750.4
2014	12-Feb-14	4	679.3	543.7	408.8	1758.4	3433	1170.7	2691.9	4302.6
2014	12-Feb-14	5	686.7	554.8	430.3	1725.9	3407.2	1690.3	2692.1	3574.4
2014	12-Feb-14	6	661.7	541	538.8	1708.7	3405	1924.8	2524.8	3200
2014	12-Feb-14	7	744	480.2	574.8	1692.4	3358.9	2097.7	2756.9	2946.5
2014	12-Feb-14	8	684.4	552.8	575.8	1675.7	3355.1	2326.2	2671.1	2977.7
2014	12-Feb-14	9	693.3	526.9	545	1642.8	3337.6	2397.7	2727.4	3109.1
2014	12-Feb-14	10	720.1	542.7	451.8	1638.4	3343.9	2032.4	2848.7	3049.9
2014	12-Feb-14	11	741.7	562.8	329.1	1642.2	3342.1	1667.9	2786.7	2944.8
2014	12-Feb-14	12	772.8	564.9	309.9	1656.7	3352.8	1325.9	2665.2	2825.2
2014	12-Feb-14	13	762.8	590.8	182.3	1669.6	3366.6	1054	2433.2	2751.4
2014	12-Feb-14	14	684.3	611.2	143.4	1692.9	3337.8	782.9	2321.1	2605.9
2014	12-Feb-14	15	469.9	615.5	195.2	1698.7	3339.8	771.7	2298.4	2825.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	12-Feb-14	16	471.3	601.6	342.3	1692.7	3302	1277.3	2242.4	2750.9
2014	12-Feb-14	17	562.9	608.2	522.7	1681.4	3275.2	2363.8	2169.4	2786.4
2014	12-Feb-14	18	740	626.4	571.5	1679.5	3250.7	2414.6	2122.1	2900.6
2014	12-Feb-14	19	749.1	633	568.3	1667.5	3226.7	2410.2	1858.9	1922.5
2014	12-Feb-14	20	751.4	614.4	533.1	1611.4	3206.4	2409.7	1505.5	1512.7
2014	12-Feb-14	21	771.3	614.1	337.4	1564.2	3166.8	2406.1	1274.9	1286.4
2014	12-Feb-14	22	717.9	604.4	277	1526.7	3126.9	2109.5	1181.8	1278.5
2014	12-Feb-14	23	752	614.9	155.3	1501.5	3150.2	1434.8	1160.2	1432
2014	13-Feb-14	0	744.5	619.3	80.52	1488.5	3154.4	803.6	1190.2	1629.8
2014	13-Feb-14	1	754.3	607.1		1475.4	3165.8	0.009	1253.1	1781.3
2014	13-Feb-14	2	786.3	599		1471	3189.2		1042.8	1564.7
2014	13-Feb-14	3	764.2	617.4		1462.6	3184.8		943.3	1200.8
2014	13-Feb-14	4	757.8	598.7		1455	3214		752.7	836.8
2014	13-Feb-14	5	760	602.3		1433.8	3186		654.5	885.9
2014	13-Feb-14	6	771.5	589.2		1401.2	3124.8		580.3	864.1
2014	13-Feb-14	7	721.7	551.9		1418.6	3078.7		468.9	655.2
2014	13-Feb-14	8	751	646.8		1453.3	3114.9		499.8	735.7
2014	13-Feb-14	9	660.2	562.3		1442.7	3126.5		667.7	740
2014	13-Feb-14	10	670.4	578.2		1426.4	3121.4		684.6	746.7
2014	13-Feb-14	11	572	543.1		1439.1	3119		706.7	795.7
2014	13-Feb-14	12	568.8	498		1434.5	3099.2		679.8	927.8
2014	13-Feb-14	13	585	501.5		1431.6	3097.3		754.3	865.7
2014	13-Feb-14	14	584.5	548.6		1406.1	3021.4		696	810.3
2014	13-Feb-14	15	617.4	525.1		1390	2953.4		538.4	640
2014	13-Feb-14	16	597.3	517.1		1394.4	2923		505.4	607.4
2014	13-Feb-14	17	617.4	505.2		1398.5	2217.3		552	727.1
2014	13-Feb-14	18	617	493.8		1400.4	2269.8		731.3	785.3
2014	13-Feb-14	19	1173.9	929.8		1359.1	2651.1		871.5	679.7
2014	13-Feb-14	20	1348.5	1129.9	0.041	1335.2	2725.9		1012.7	630.8
2014	13-Feb-14	21	1088.8	1029.7	0.064	1057.8	2500.7		1080.8	567.5
2014	13-Feb-14	22	770.5	616.6	0.064	894.2	2312.3		890.7	419.9
2014	13-Feb-14	23	601.3	449.2	0.064	200.16	2400.6		669.5	375.7
2014	14-Feb-14	0	579	419.5	0.064		2163.5		203.7	367
2014	14-Feb-14	1	858.9	332.6	0.064		1829.9		2.014	373.3
2014	14-Feb-14	2	324.4	301	0.064		1828.6			376
2014	14-Feb-14	3	241.7	280.1	0.056		1834.3			375.3
2014	14-Feb-14	4	221.1	138.1	0.048		1833.2			404
2014	14-Feb-14	5	217	160.1	0.048		1794.3			390.4
2014	14-Feb-14	6	242.2	420.4	0.048		1841.8			385.3
2014	14-Feb-14	7	369.2	736.2	0.048		2072.6			373.5
2014	14-Feb-14	8	709.3	497.6	0.048		2045.1			371.8
2014	14-Feb-14	9	1308.9	437.6	0.048		1995.7			395
2014	14-Feb-14	10	1369.6	442.8	0.048		2038.6			392.9
2014	14-Feb-14	11	1431.3	446.3	0.051		2056.7			385.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Feb-14	12	1384.2	448.2	0.061		2110.6			559.9
2014	14-Feb-14	13	1301.8	488.2	0.062		2107.4			944.3
2014	14-Feb-14	14	1010.8	410.9	0.062		2145.6			1001.7
2014	14-Feb-14	15	693.7	271.2	0.055		2151.6			1090.6
2014	14-Feb-14	16	352.4	168.5	0.062		2187.1			694.8
2014	14-Feb-14	17	337.6	136.6	0.062		2208.8			410.7
2014	14-Feb-14	18	572	199.2	0.062		2200.5			391.9
2014	14-Feb-14	19	827.5	311	0.062		2201.1			381.9
2014	14-Feb-14	20	1124	404.7	0.062		2208.9			374.7
2014	14-Feb-14	21	881.5	799.9	0.061		2224.2			373
2014	14-Feb-14	22	611.7	549.3	0.049		2223.6			414.7
2014	14-Feb-14	23	301.8	348.1	0.048		2220.1			398.9
2014	15-Feb-14	0	180.6	244.8	0.048		2234.3			482.1
2014	15-Feb-14	1	140.5	338.8	0.057		2240.8			410.6
2014	15-Feb-14	2	112.7	219.2	0.062		2224.3			398.3
2014	15-Feb-14	3	109.1	134	0.049		2216.6			389.1
2014	15-Feb-14	4	96	89	0.05		2261.7			393.5
2014	15-Feb-14	5	115.1	100.6	0.055		2315.5			393.7
2014	15-Feb-14	6	130.4	164.4	0.052		2304			384.7
2014	15-Feb-14	7	167.6	263	0.061		2264.8			403.8
2014	15-Feb-14	8	317.1	658.9	0.047		2263.8			406
2014	15-Feb-14	9	641.5	966.9	0.055		2295.5			415.6
2014	15-Feb-14	10	995.8	1070.3	0.058		2338			815
2014	15-Feb-14	11	1402.5	1122.7	0.047		2327.5			1079
2014	15-Feb-14	12	1332.7	1148.4	0.061		2255.4			900.5
2014	15-Feb-14	13	1328.4	1205.9	0.052		2269.8			865
2014	15-Feb-14	14	1386.8	1149.6	0.05		2280.4			1129.9
2014	15-Feb-14	15	1085.7	1142.3	0.062		2277.2			1207.3
2014	15-Feb-14	16	1209.1	1103.4	0.049		2263.4			1255.4
2014	15-Feb-14	17	1378.1	1160.2	0.046		2256.9			1240.6
2014	15-Feb-14	18	1449.4	1105.2	0.047		2263.4			1179.4
2014	15-Feb-14	19	1461.1	1057.5	0.061		2262.7			1090.6
2014	15-Feb-14	20	1377.4	847.8	0.061		2331.2			1043.1
2014	15-Feb-14	21	1371.8	1061.8	0.055		2291.9			905.2
2014	15-Feb-14	22	1443.4	1058.7	0.047		2325.8			871.8
2014	15-Feb-14	23	1425.9	958.9	0.048		2281.1			769.3
2014	16-Feb-14	0	1360.3	1071.9	0.047		2276.8			752.7
2014	16-Feb-14	1	1325.6	959.5	0.053		2284			724.9
2014	16-Feb-14	2	1397.1	1059.6	0.062		2278.9			711.7
2014	16-Feb-14	3	1474.4	1072.7	0.061		2276			726.7
2014	16-Feb-14	4	1478.8	1144.1	0.052		2275.3			730.2
2014	16-Feb-14	5	1488.4	1159.7	0.047		2270.9			764.2
2014	16-Feb-14	6	1331.3	1187.6	0.058		2273.6			922.1
2014	16-Feb-14	7	1420.7	1036.3	0.062		2247.3			94.791

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	16-Feb-14	8	1341.5	1220.3	0.046		2285			
2014	16-Feb-14	9	1365.1	1152.7	0.054		2283.5			
2014	16-Feb-14	10	1429.7	1190.4	0.062		2348.7			
2014	16-Feb-14	11	1358.7	1148.4	0.062		2294.2			
2014	16-Feb-14	12	907.7	745.5	0.051		2283.1			
2014	16-Feb-14	13	822.4	918.8	0.048		2294			
2014	16-Feb-14	14	873.8	1046.3	0.062		2306.9			
2014	16-Feb-14	15	711.6	656.3	0.051		2299.6			
2014	16-Feb-14	16	638.3	791.2	0.051		2297			
2014	16-Feb-14	17	913.3	1070.5	0.062		2326			26.6
2014	16-Feb-14	18	1354.2	1191.4	0.062		2293.5			61.3
2014	16-Feb-14	19	1500.5	1194.8	0.061		2294.7			64.5
2014	16-Feb-14	20	1517.4	1192.5	0.061		2304.3			74.7
2014	16-Feb-14	21	1510.4	1158.3	0.048		2471.9			85.2
2014	16-Feb-14	22	1456.6	1168.7	0.051		2279.8			67.7
2014	16-Feb-14	23	1418.9	1113.5	0.062		2419.7			46
2014	17-Feb-14	0	1491.5	1094.6	0.062		2649.9			212.1
2014	17-Feb-14	1	1414	704.4	0.062		2680.7			499
2014	17-Feb-14	2	1383.9	1083.2	0.062		2986.9			601.6
2014	17-Feb-14	3	1377.2	1059.9	0.051		3358.4			849.4
2014	17-Feb-14	4	1406.8	1040.2	0.051		3512.1			559.104
2014	17-Feb-14	5	1458.1	1050.4	0.062		3510.5			
2014	17-Feb-14	6	1420	1045.8	0.062		3478.7			1.84
2014	17-Feb-14	7	1475.6	965	0.062		3473.5			9
2014	17-Feb-14	8	1427	1214.1	0.048		3513.6			2.1
2014	17-Feb-14	9	1419	1125.5	0.051		3524.3			142
2014	17-Feb-14	10	1418.1	1057.9	0.062		3529			319.3
2014	17-Feb-14	11	1403.5	1100.4	0.062		3529.6			516.3
2014	17-Feb-14	12	1437.9	1061.6	0.054		3555.5			441.8
2014	17-Feb-14	13	1429.4	1104	0.056		3563.6			566.7
2014	17-Feb-14	14	1462	1057.1	0.062		3551.4			963.7
2014	17-Feb-14	15	1435.6	1077.4	0.062		3580			961.4
2014	17-Feb-14	16	1443.4	1055.1	0.056		3581.1			887.6
2014	17-Feb-14	17	1449.8	1102.7	0.048		3502.7			855
2014	17-Feb-14	18	1523.7	1147.6	0.049		3571.8			1305.4
2014	17-Feb-14	19	1503.6	1152.6	0.062		3581			1695.3
2014	17-Feb-14	20	1537.5	1116.6	0.062		3614.3			2311.3
2014	17-Feb-14	21	1476.7	1179.4	0.062		3577.4			2111.3
2014	17-Feb-14	22	1389.4	1095.7	0.062		3603.6			1800.3
2014	17-Feb-14	23	1492.6	1136.5	0.053		3587.5			1634.5
2014	18-Feb-14	0	1489	1145.4	0.048		3633.4			1292.7
2014	18-Feb-14	1	1514.7	1137	0.053		3637			838.2
2014	18-Feb-14	2	1473.1	1119.5	0.062		3639.6			800.9
2014	18-Feb-14	3	1483.7	1137.6	0.062		3706.8			277.443

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	18-Feb-14	4	1489.4	1085.8	0.062		3701.7			
2014	18-Feb-14	5	1494	1079.7	0.048		3675.6			
2014	18-Feb-14	6	1471.1	1060.8	0.053		3472.3			
2014	18-Feb-14	7	1503.4	996.5	0.062		3549.3			
2014	18-Feb-14	8	1413.6	1177.5	0.062		3754.2			
2014	18-Feb-14	9	1348.6	961.6	0.059		3740.7			
2014	18-Feb-14	10	1272.4	870.6	0.047		3698.7			
2014	18-Feb-14	11	1323.7	820.7	0.054		3648			
2014	18-Feb-14	12	1211.1	846.5	0.062		3585.8			
2014	18-Feb-14	13	939.6	627.7	0.059		3186.3			
2014	18-Feb-14	14	748.7	654.9	0.048		2979.3			
2014	18-Feb-14	15	545.8	424.5	0.061		2781.5			
2014	18-Feb-14	16	855.4	326.1	0.058		2778.6			
2014	18-Feb-14	17	1158.2	320.4	0.054		2768.7			
2014	18-Feb-14	18	817.9	768.3	0.063		3254.2			
2014	18-Feb-14	19	1122.3	944.2	0.052		3617.6			
2014	18-Feb-14	20	1123	922.2	0.052		3750.9			
2014	18-Feb-14	21	1144.4	939.9	0.063		3731.1			
2014	18-Feb-14	22	1078.2	862.6	0.057		3628.8			
2014	18-Feb-14	23	672	639.5	0.048		3310.1			
2014	19-Feb-14	0	371.6	394.9	0.053		2884.7			
2014	19-Feb-14	1	285.4	250.9	0.062		2766.9			
2014	19-Feb-14	2	200.3	57.582	0.057		2542.5			
2014	19-Feb-14	3	312		0.049		2434			
2014	19-Feb-14	4	439		0.062		2673.1			
2014	19-Feb-14	5	442.2		0.062		2548.8			
2014	19-Feb-14	6	509.8		0.062		2888.8			
2014	19-Feb-14	7	790.6		0.062		3266.1			
2014	19-Feb-14	8	911.1		0.062		3253.5			
2014	19-Feb-14	9	1338.3		0.062		3430.9			
2014	19-Feb-14	10	824.8		0.054		3705.2			
2014	19-Feb-14	11	1014.6		0.047		3648.8			
2014	19-Feb-14	12	1142.4		0.048		3396.1			
2014	19-Feb-14	13	1221.3		0.057		3308			
2014	19-Feb-14	14	1062.7		0.062		3307.3			
2014	19-Feb-14	15	808.1		0.062		3001.5			
2014	19-Feb-14	16	550.5		0.062		2707.8			
2014	19-Feb-14	17	502.4		0.05		2589.3			
2014	19-Feb-14	18	607.1		0.054		3089.9			
2014	19-Feb-14	19	1071.1		0.063		3486.8			
2014	19-Feb-14	20	1177.8		0.053		3649.6			
2014	19-Feb-14	21	1207.3		0.054		3655			
2014	19-Feb-14	22	1133.9		0.063		3327.7			
2014	19-Feb-14	23	727.8		0.048		2862.2			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	20-Feb-14	0	452		0.063		2518.2			
2014	20-Feb-14	1	248.5		0.06		2502.4			
2014	20-Feb-14	2	187.7		0.05		2353.4			
2014	20-Feb-14	3	144.6		0.063		2350.8			
2014	20-Feb-14	4	130.8		0.063		2559.4			
2014	20-Feb-14	5	178.8		0.049		2977.6			
2014	20-Feb-14	6	241.7		0.02		3461			
2014	20-Feb-14	7	417.5				3579.3			
2014	20-Feb-14	8	606.1				3470.3			
2014	20-Feb-14	9	944				3592.9			
2014	20-Feb-14	10	1128.4				3629.2			
2014	20-Feb-14	11	1211.1				3662.9			
2014	20-Feb-14	12	1257.3				3625.5			
2014	20-Feb-14	13	1249.5				3606.9			
2014	20-Feb-14	14	1226.3				3608.6			
2014	20-Feb-14	15	1182.9		0.031		3601.9			
2014	20-Feb-14	16	1149.1		0.063		3394.2			
2014	20-Feb-14	17	1154.5		0.064		3493.2			
2014	20-Feb-14	18	1224.9		0.064		3629.5			
2014	20-Feb-14	19	1219.1		0.063		3651.9			
2014	20-Feb-14	20	1255.2		0.063		3616.6			
2014	20-Feb-14	21	1209.3		0.061		3599			
2014	20-Feb-14	22	757.9		0.051		3338.9			
2014	20-Feb-14	23	463.9		0.063		3044			
2014	21-Feb-14	0	293.4		0.056		2683			
2014	21-Feb-14	1	205.6		0.058		2290.3			
2014	21-Feb-14	2	130.8		0.063		2117.5			
2014	21-Feb-14	3	105.5		0.052		2166.9			
2014	21-Feb-14	4	112.1		0.059		2176.1			
2014	21-Feb-14	5	116.4		0.063		2490.2			
2014	21-Feb-14	6	154.9		0.063		2812.4			
2014	21-Feb-14	7	222.1		0.058		3400.9			
2014	21-Feb-14	8	217.7		0.05		3570			
2014	21-Feb-14	9	262.3		0.05		3512.4			
2014	21-Feb-14	10	266.1		0.054		3458.8			
2014	21-Feb-14	11	303.3		0.063		3544.3			
2014	21-Feb-14	12	273.7		0.063		3467.7			
2014	21-Feb-14	13	390.4		0.057		3544.5			
2014	21-Feb-14	14	556.4		0.049		3524.9			
2014	21-Feb-14	15	462.1		0.049		3342.4			
2014	21-Feb-14	16	265.2		0.049		3060.7			
2014	21-Feb-14	17	201.8		0.049		2818.8			
2014	21-Feb-14	18	207.9		0.053		2824.4			
2014	21-Feb-14	19	364.9		0.063		2733.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	21-Feb-14	20	559.3		0.063		2144.7			
2014	21-Feb-14	21	815.4		0.063		2686.1			
2014	21-Feb-14	22	973.6		0.053		2959.5			
2014	21-Feb-14	23	689.8		0.05		2613.7			
2014	22-Feb-14	0	706.2		0.05		2820.1			
2014	22-Feb-14	1	925.5		0.05		3186.7			
2014	22-Feb-14	2	799.1		0.05		2935.2			
2014	22-Feb-14	3	651.1		0.05		2697.7			
2014	22-Feb-14	4	579.3		0.05		2765.6			
2014	22-Feb-14	5	533.8		0.05		2685			
2014	22-Feb-14	6	654.2		0.061		3004.5			
2014	22-Feb-14	7	946.2		0.063		3257.3			
2014	22-Feb-14	8	1337.3		0.064		3665			
2014	22-Feb-14	9	1320.8		0.057		3625.6			
2014	22-Feb-14	10	1300.1		0.05		3481			
2014	22-Feb-14	11	675.6		0.05		3224.1			
2014	22-Feb-14	12	393.3		0.05		3022.7			
2014	22-Feb-14	13	246.7		0.062		2747.8			
2014	22-Feb-14	14	185.3		0.063		2535.7			
2014	22-Feb-14	15	168		0.056		2400.3			
2014	22-Feb-14	16	123.5		0.05		2386.9			
2014	22-Feb-14	17	109.3		0.05		2396.4			
2014	22-Feb-14	18	110.6		0.05		2557.4			
2014	22-Feb-14	19	120.4		0.05		2845			
2014	22-Feb-14	20	105.9		0.05		2845.3			
2014	22-Feb-14	21	108.6	0	0.05		2883.8			
2014	22-Feb-14	22	113.3	0	0.05		2612.6			
2014	22-Feb-14	23	121.7	0	0.05		2498.3			
2014	23-Feb-14	0	124.4	0	0.05		2588.7			
2014	23-Feb-14	1	133.8	0	0.05		2566.1			
2014	23-Feb-14	2	144.3	0	0.05		2595			
2014	23-Feb-14	3	149.4	0	0.05		2492.1			
2014	23-Feb-14	4	146.6	0	0.05		2486.4			
2014	23-Feb-14	5	143.7	0	0.05		2595.3			
2014	23-Feb-14	6	143.9	0	0.05		2794.4			
2014	23-Feb-14	7	144	0	0.05		2586.3			
2014	23-Feb-14	8	136.1	0.9	0.05		2703.1			
2014	23-Feb-14	9	119.7	0	0.05		2785.7			
2014	23-Feb-14	10	119.3	0	0.05		2557.5			
2014	23-Feb-14	11	121.8	0	0.05		2406.7			
2014	23-Feb-14	12	130.9	0	0.05		2404.7			
2014	23-Feb-14	13	135.3	0	0.05		2406			
2014	23-Feb-14	14	135.8	0	0.05		2385			
2014	23-Feb-14	15	137.7	0	0.05		2376.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	23-Feb-14	16	137.1	0	0.05		2372.4			
2014	23-Feb-14	17	137.2	0	0.05		2368			
2014	23-Feb-14	18	148.1	0	0.05	0	2557			
2014	23-Feb-14	19	169.7	0	0.05	0	2772.3		0	
2014	23-Feb-14	20	160.7	0	0.05	10	2769.2		0	
2014	23-Feb-14	21	175.7	0	0.05	0.4	2749.6		0	1.05
2014	23-Feb-14	22	159.3	0	0.05	1.5	2725.9		0	3
2014	23-Feb-14	23	129.8	18.9	0.05	0.1	2338.7		28.8	1.6
2014	24-Feb-14	0	131	43.8	0.05	0	2264.9		54.7	1.6
2014	24-Feb-14	1	129.7	168.7	0.05	0	2256.9		56.7	1.5
2014	24-Feb-14	2	126.4	192.5	0.022	0	2255.9		51.8	1.4
2014	24-Feb-14	3	122.3	187.3		0	2268		52.7	1.4
2014	24-Feb-14	4	127.9	258.9		0	2295		37.9	1.6
2014	24-Feb-14	5	129.4	576.8		0	2485		30.9	1.5
2014	24-Feb-14	6	185.2	672.8		0	2892.6		29.9	1.3
2014	24-Feb-14	7	305.4	284.9		11.5	3243.6		29.7	3.9
2014	24-Feb-14	8	415.3	568.4		0.4	3479.2		34.5	4.3
2014	24-Feb-14	9	524.7	768.2		1.5	3434.9		52.1	29.7
2014	24-Feb-14	10	867.4	648.9		31.6	3586.4		50.3	326.3
2014	24-Feb-14	11	998	923.7		367.6	3547.3		132.2	744.5
2014	24-Feb-14	12	1042.2	1047.2		667.4	3519.4		151	848.1
2014	24-Feb-14	13	1033	1136.8		759.5	3422.9		247.6	1021.2
2014	24-Feb-14	14	968.4	1126.6		684.2	3281.6		411.7	1712.8
2014	24-Feb-14	15	986.6	1101.8		658.5	3158.4		621.2	1748.8
2014	24-Feb-14	16	859.5	977.9		617.1	3037.2		717.5	1440
2014	24-Feb-14	17	947.3	1027.9		699.6	3008.9		799.7	1430.1
2014	24-Feb-14	18	1080.5	1105.3		1242.7	3372.7		1004.6	1833.6
2014	24-Feb-14	19	1097.2	1168.8		1432.4	3544.8		1019.2	2170.7
2014	24-Feb-14	20	1152.2	1158		1475	3530.5		768	2619.2
2014	24-Feb-14	21	1168.1	1151.6		1429.8	3534.6		760.5	2089.8
2014	24-Feb-14	22	977.7	1146.3		1349.2	3420.4		673.5	1272.3
2014	24-Feb-14	23	896.9	1094.1		1082.7	3153.9		479.4	732
2014	25-Feb-14	0	1112.4	1111.2		747.8	3286.1		510.6	587.1
2014	25-Feb-14	1	1171.1	1058.1		781.7	3445.6		543.4	629.9
2014	25-Feb-14	2	1146.1	1099.6		1108.5	3476.6		595.4	726
2014	25-Feb-14	3	982.7	1066.9		1399.4	3448.2		591.2	851.2
2014	25-Feb-14	4	1005.9	1060.7		1377.3	3403.6		495.7	635.7
2014	25-Feb-14	5	1009	894.4		1394.9	3488		599.6	650
2014	25-Feb-14	6	1059.1	783.2		1448.6	3460.4		823.1	744.9
2014	25-Feb-14	7	1068.1	675.8		1462.4	3420.4		863.8	856.4
2014	25-Feb-14	8	1385	1104.3		1463.4	3466.7		940.3	894.9
2014	25-Feb-14	9	1222.7	1045.3		1486	3490.5		1253	1166.1
2014	25-Feb-14	10	1169.6	852.9		1486.9	3466.6		1152.6	1314.3
2014	25-Feb-14	11	1008.2	908		1511.9	3420.5		988.4	1036.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Feb-14	12	868.3	790.6		1509.6	3430.3		923.5	998.6
2014	25-Feb-14	13	760.3	821.9		1522	3441		880.4	891.1
2014	25-Feb-14	14	668.8	793.3		1500.4	3438.4		872.7	759.7
2014	25-Feb-14	15	718.1	774.5		1452.4	3359.4		730.4	766.4
2014	25-Feb-14	16	646.8	781.9		1449.1	3205.9		591.4	621.1
2014	25-Feb-14	17	611.4	716.7		1648.8	3362.4		688.5	649.7
2014	25-Feb-14	18	594.8	571		1661.9	3407.5		783.6	803.8
2014	25-Feb-14	19	656.2	550.7		1663.5	3392.8		806.2	824.6
2014	25-Feb-14	20	711.1	561.3		1726.1	3388.1		828.3	802.7
2014	25-Feb-14	21	691.4	599.1		1725.7	3372.2		828.7	811.7
2014	25-Feb-14	22	746.6	604.9		1560.1	3309.6		760.5	924.5
2014	25-Feb-14	23	678.5	614.9		1511.4	3248.4		566.8	963.2
2014	26-Feb-14	0	645.3	531		1119.3	3012.2		394.2	951.2
2014	26-Feb-14	1	407.2	353.2		847.3	2886.8		407	591.4
2014	26-Feb-14	2	419.3	486.6		709.3	2838.5		386.1	395.2
2014	26-Feb-14	3	256.9	399.8		682.6	2775.2		398.4	402.7
2014	26-Feb-14	4	303.1	490.9		696.1	2918.1		413.6	387.3
2014	26-Feb-14	5	421	571.9		751.3	2990.9		437.1	446.2
2014	26-Feb-14	6	532.8	669.1		1270.9	3365.7		657.3	960
2014	26-Feb-14	7	580.7	564.3		1696.1	3370.7		773.2	968.3
2014	26-Feb-14	8	583.8	712.1		1701.9	3387.7		814.3	1589.6
2014	26-Feb-14	9	630	680.5		1688.3	3413		824.7	1504.8
2014	26-Feb-14	10	582.7	601.6		1685.9	3430.6		787.4	1345.3
2014	26-Feb-14	11	556.3	558.6		1673.1	3485		779.9	1620.9
2014	26-Feb-14	12	483.2	610.4		1730.8	3484.2		755.1	1162.9
2014	26-Feb-14	13	483.8	632.6		1675.5	3432.5		632.3	721.1
2014	26-Feb-14	14	397.3	278.9		1571.5	3293.4		470.4	508.3
2014	26-Feb-14	15	389.6	470.6		1530.4	3246.8		429	428.2
2014	26-Feb-14	16	393	660.3		1645.5	3357.6		448.8	461.5
2014	26-Feb-14	17	385.6	776.5		1600.1	3305.2		459.6	475.2
2014	26-Feb-14	18	413.1	762.2		1669.4	3446.4		570.1	596.5
2014	26-Feb-14	19	388.3	793.9		1688.5	3482.4		723.9	804.5
2014	26-Feb-14	20	438.1	895.9	0.006	1679	3504.4		767.9	976.3
2014	26-Feb-14	21	533.4	1021.9	0.053	1685	3572	0.015	730.5	990.2
2014	26-Feb-14	22	755.2	1212.3	0.061	1705	3549	0.047	773.4	978.2
2014	26-Feb-14	23	986	1304.1	0.075	1694.5	3549.6	0.047	765	1179.8
2014	27-Feb-14	0	1182.5	1394.8	0.075	1700.3	3586.1	0.057	730.1	1305.4
2014	27-Feb-14	1	1379	1453.7	0.075	1701.3	3555.3	0.079	724.1	866
2014	27-Feb-14	2	1428.5	1398.9	0.075	1705.8	3529.9	0.107	694.4	809.2
2014	27-Feb-14	3	1467.2	1388.4	0.038	1731.3	3543.2	0.109	684.7	845.6
2014	27-Feb-14	4	1491.2	1368.4		1695.2	3527.6	258.899	670.1	828.4
2014	27-Feb-14	5	1561.8	1361.5		1682.6	3508.6	800.25	653.2	759.4
2014	27-Feb-14	6	1028	1348.7		1854.2	3560.1	705.16	736.6	812.8
2014	27-Feb-14	7	829.9	1186		1889.1	3497.8	690.362	712.8	804.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	27-Feb-14	8	814.3	1559.2		1900.1	3589.7	687.462	799	765.3
2014	27-Feb-14	9	780.7	1342.5		1915.7	3614.8	687.262	706.6	722.5
2014	27-Feb-14	10	761.2	1456.4		1891.9	3618.9	684.262	1571.8	1022.3
2014	27-Feb-14	11	719.7	1284.7		1902.9	3609.7	681.462	2423.2	1262.7
2014	27-Feb-14	12	676.6	1385.2		1858.5	3614.7	681.044	1847.9	1444.8
2014	27-Feb-14	13	652.6	1012.3		1805.5	3280.4	728.4	1180.3	1535.1
2014	27-Feb-14	14	642.5	1354.8		1818.2	3444.2	636.6	856	979.2
2014	27-Feb-14	15	688.2	1368.2		1761.6	3510.7	725.3	659.8	751.6
2014	27-Feb-14	16	659	1345.4	0.065	1730.8	3484.7	728.1	648.7	803.7
2014	27-Feb-14	17	747.5	1286.7	0.074	1839.7	3479.3	710.4	693.5	842.4
2014	27-Feb-14	18	790.2	1476.2	0.055	1817.5	3472.3	699.9	764.7	748.9
2014	27-Feb-14	19	822.1	1476.1	47.433	1818.7	3454.6	739	686.3	711.4
2014	27-Feb-14	20	815.7	1517.7	87.266	1858.6	3442.5	829.2	672.5	691.8
2014	27-Feb-14	21	826.8	1660.7	87.376	1847.2	3421	807.7	660.9	697
2014	27-Feb-14	22	831.7	1631	177.008	1774.6	3417.8	695.8	674.9	694.8
2014	27-Feb-14	23	867.3	1677.2	174.6	1787.7	3421.4	692.4	598.6	694.3
2014	28-Feb-14	0	822	1616.2	188.1	1843.4	3415.3	798.1	584	709.5
2014	28-Feb-14	1	781	1562.5	162.1	1720.9	3398	804.6	589.2	703.6
2014	28-Feb-14	2	784.5	1492	170.7	1770.1	3378.6	692.3	590.7	703
2014	28-Feb-14	3	797.3	1507.2	153.9	1855.8	3370.2	757.2	588.5	712.6
2014	28-Feb-14	4	749.8	1581.3	149.4	1859.3	3373.1	716.5	587.6	704.3
2014	28-Feb-14	5	764.6	1552	169.7	1867	3354.2	715	616.2	694.3
2014	28-Feb-14	6	741.5	1581.8	320.5	1858.4	3346.9	815.6	602.8	687.3
2014	28-Feb-14	7	764.1	1543.8	389.3	1854.6	3291.5	1699.6	614.1	686.6
2014	28-Feb-14	8	772.4	1700.4	344	1791.9	3328.4	2035.5	671.2	573.6
2014	28-Feb-14	9	759.2	1228	156.6	1848.9	3352.9	1126.5	660.8	721.1
2014	28-Feb-14	10	698.3	564.1	145.8	2021.7	3346	677.1	677.3	676.5
2014	28-Feb-14	11	727.2	453.6	153	2005.2	3337.5	695.4	664.5	684.7
2014	28-Feb-14	12	658.5	302	149.3	2023.8	3341.4	729.2	677.3	661.1
2014	28-Feb-14	13	533.5	352.3	157.1	2019.6	3349.1	699.4	676	656
2014	28-Feb-14	14	466.1	374.6	147.9	2036.2	3337.3	706.7	656.5	654.7
2014	28-Feb-14	15	506.6	428	148.1	2003.3	3308	700.9	646.3	631.6
2014	28-Feb-14	16	544.2	472	147.7	1946.4	3295	700.4	590	598.8
2014	28-Feb-14	17	560	510.6	147.9	1973.2	3389.9	699.4	609.3	618.9
2014	28-Feb-14	18	582.1	512.1	157.4	1964.4	3411.7	698.2	668.3	697.8
2014	28-Feb-14	19	599	564.3	145.7	1927.4	3414.6	716.3	654.1	695.4
2014	28-Feb-14	20	608.1	592.4	137.2	1929.5	3430.6	706.7	669.9	680.2
2014	28-Feb-14	21	637.5	629.3	53.62	1931.7	3426.3	704.6	686.8	666
2014	28-Feb-14	22	648.4	661.9		1910.1	3435.8	724	671.8	662.3
2014	28-Feb-14	23	703.3	670.3		1920.9	3479.2	523.5	656.9	665.4
2014	1-Mar-14	0	692.6	702.9		1894	3557.4		668.3	657.9
2014	1-Mar-14	1	706.1	677.2		1919.3	3600.1		672.6	668.4
2014	1-Mar-14	2	725	711.4		1927.7	3655.3		658.4	612.3
2014	1-Mar-14	3	732.4	693.8		1908.8	3709.2		656.7	671.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	1-Mar-14	4	722.7	691.5		1920.3	3716.8		632.9	656.6
2014	1-Mar-14	5	716.5	643.7		1904.1	3717.5		626.5	632.2
2014	1-Mar-14	6	728.2	664.3		1896.6	3733		625.1	680.2
2014	1-Mar-14	7	730.2	613.6		1878.5	3766.7		638.7	718.3
2014	1-Mar-14	8	720.1	677.1		1872.9	3807.4		651.5	734.3
2014	1-Mar-14	9	718.3	654.4		1851.4	3953.9		669.7	735.3
2014	1-Mar-14	10	734.7	670.1		1849.7	4052.9		689.2	671.7
2014	1-Mar-14	11	741.3	679.3		1857.8	4091		640.1	678.7
2014	1-Mar-14	12	1217.2	682.6		1831.1	3962.4		441.3	600.8
2014	1-Mar-14	13	894	654.9		1805.4	3777.7		339.2	433.9
2014	1-Mar-14	14	711.9	500.5		1717.9	3443		362.3	500.5
2014	1-Mar-14	15	392	431.7		1301.1	3095.7		374.8	420.5
2014	1-Mar-14	16	273.9	402.4		1337.4	3270.9		351.7	408
2014	1-Mar-14	17	245.1	411.6		1395.2	3379.1		360.2	376.4
2014	1-Mar-14	18	628.5	571.4		1737.8	3824.6		369.3	374.7
2014	1-Mar-14	19	649.8	623.2		1988	4088.7		364.2	379.9
2014	1-Mar-14	20	635.7	605.2		1931.2	4059.4		354	397.1
2014	1-Mar-14	21	663.6	646.1		2112.7	4160.5		356.9	413.6
2014	1-Mar-14	22	644.9	673		2156.7	4148.3		359.8	400
2014	1-Mar-14	23	279.2	718.4		2269.9	4179.9		369.2	379.4
2014	2-Mar-14	0	335.9	731		2323.3	4236.9		368.5	394.6
2014	2-Mar-14	1	507.5	716.3		2367.8	4167.2		362.8	384
2014	2-Mar-14	2	692.9	627.4		2283.8	3731		362.5	407.7
2014	2-Mar-14	3	478.5	645.5		2467.5	3852.4		362.8	425.4
2014	2-Mar-14	4	586.1	658.5		2554.7	4007.1		373.1	387
2014	2-Mar-14	5	394.5	476.1		2436.6	3875.4		371	395.1
2014	2-Mar-14	6	391.5	470		2419.5	3669.5		386	393
2014	2-Mar-14	7	413.1	196.3		2436	3437.5		367.3	386.2
2014	2-Mar-14	8	644.8	464.9		2536.7	3943.4		365.1	402.1
2014	2-Mar-14	9	924	449.6		2524.2	4135.2		368.7	427.3
2014	2-Mar-14	10	1219.2	571.6		2472.2	4202.7		375.2	402.2
2014	2-Mar-14	11	1300	636.2		2333.2	4062.2		386.4	413.9
2014	2-Mar-14	12	1219.8	412.2		2273.4	3880.1		380.2	390.2
2014	2-Mar-14	13	1204.4	411.5		2328.9	3890.4		386.7	381.8
2014	2-Mar-14	14	1079.7	418.6		2436.3	4043.5		370.3	377.2
2014	2-Mar-14	15	784.8	375.6		2314.8	3919.1		364.7	411.9
2014	2-Mar-14	16	777.7	318.5		2410.3	4114.2		361.2	383.8
2014	2-Mar-14	17	812.5	314.9		2406.8	4106.1		363.8	365.3
2014	2-Mar-14	18	893	335.1		2465.3	4091.8		363.8	373.8
2014	2-Mar-14	19	820.4	456.2		2449	4114.6		374.3	363.7
2014	2-Mar-14	20	920.9	455.6		2465.7	4078.1		365.6	364.3
2014	2-Mar-14	21	946.4	466.5		2470.4	4084.5		367.1	389.2
2014	2-Mar-14	22	935.7	422.6		2286.6	3884.8		364.4	369.9
2014	2-Mar-14	23	867.2	790.9		2289.3	3508.7		368.2	367.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Mar-14	0	594.8	632.5		2271.6	3052		427.6	432.7
2014	3-Mar-14	1	331.8	304.1		2201.9	2929.2		490.3	597.7
2014	3-Mar-14	2	527.2	277.1		2188.4	3058.4	0.025	500.2	613.3
2014	3-Mar-14	3	639.5	261.8	0.015	2190.8	3371.1	0.044	519.5	612.9
2014	3-Mar-14	4	646.8	306.7	0.066	2193.5	3621.4	0.031	573.9	608.9
2014	3-Mar-14	5	689.1	375.2	0.075	2265.7	3697.2	90.641	604.3	607.9
2014	3-Mar-14	6	958.6	757.7	0.071	2561.7	3956.8	174.573	801.3	750.2
2014	3-Mar-14	7	945.7	1126.5	0.064	2658.3	3941.7	172.006	912.2	758.7
2014	3-Mar-14	8	629.3	706.4	0.064	2593.2	3989.1	169.788	932.7	1150.2
2014	3-Mar-14	9	582.4	652.6	0.051	2524.1	4005.5	407.962	1254.7	1436.8
2014	3-Mar-14	10	624.2	689.5	0.05	2510.7	4013.2	562.362	1369.8	1959.4
2014	3-Mar-14	11	752.6	710.3	0.05	2531.4	3987.1	598.362	1425.2	1597.4
2014	3-Mar-14	12	815.7	708.7	0.058	2236.3	4014.6	596.347	1886.7	1623.3
2014	3-Mar-14	13	829	687.4	0.075	2155.3	4026.9	637.5	1706.7	1689.3
2014	3-Mar-14	14	822	679.2	0.012	2207.4	3997.6	602.7	1405.6	1666.9
2014	3-Mar-14	15	849.5	699.8		2190.9	3989.3	716.9	1623.2	2427
2014	3-Mar-14	16	781.2	679		2166.4	4008.1	1215.8	2216.1	2675.5
2014	3-Mar-14	17	787.2	678.1		2122.6	4013.8	1477.2	2350.8	3151.8
2014	3-Mar-14	18	786.7	695.9		2100.4	4044.9	1579.6	2426.1	3522.9
2014	3-Mar-14	19	697.1	703.5		2103	4014.1	2232.9	2499.5	3527.3
2014	3-Mar-14	20	552.7	688.1		2120.3	4015.9	2447.7	2738.5	3733.2
2014	3-Mar-14	21	532.9	484.1		2138.7	4029.9	2449.4	2693.8	3581.6
2014	3-Mar-14	22	528.4	368.1		2119.9	4013.1	2425	2243.5	3447.1
2014	3-Mar-14	23	443	263.3		2146	3984.1	2431.8	2057.3	3137.7
2014	4-Mar-14	0	718.8	716.1		2163.3	3978.8	2432.9	2234.7	2929.6
2014	4-Mar-14	1	764.7	784.1		2127.2	3974.5	2392.5	2038.1	3027.5
2014	4-Mar-14	2	733.6	766.2		2133.9	3981.4	2378	1943.2	3089
2014	4-Mar-14	3	695.6	720.7		2193.1	3962.5	2434.8	1890.9	3108.7
2014	4-Mar-14	4	692	648.8		2199.5	3975	2430.8	1978.3	2903.6
2014	4-Mar-14	5	684.4	662.5		2200.3	3971.4	2442.4	2107.6	2967.5
2014	4-Mar-14	6	714.2	603.3		2236.6	3952.3	2439.1	2133.7	3020
2014	4-Mar-14	7	715.1	603.6		2290.2	3915.3	2433.5	2183.1	3185.1
2014	4-Mar-14	8	679.7	732.4		2330.9	3972.9	2447.1	2067.7	3201.5
2014	4-Mar-14	9	685.8	682.8		2379.8	4000.6	2472	2158.1	3421.6
2014	4-Mar-14	10	658.5	518.9		2417	4003.9	2387.9	2319	3513.8
2014	4-Mar-14	11	640.8	456.2		2431.8	3999.8	2440.6	2332.7	3743.2
2014	4-Mar-14	12	656.9	437.2		2466.4	4019.3	2447.3	2430.2	3799.3
2014	4-Mar-14	13	673.5	557.4		2456.8	4028.5	2437.7	2580.4	3584.1
2014	4-Mar-14	14	664.7	635.4		2403.5	4038.8	2385.5	2577.3	3734.9
2014	4-Mar-14	15	666.2	535.3		2349.6	4048.4	2297.9	2359.5	3677.9
2014	4-Mar-14	16	711.5	528.2		2354.6	4054.9	2319.3	2337.3	3498.8
2014	4-Mar-14	17	706.6	644.9		2329.9	4066.5	1531.3	2346.2	3468.6
2014	4-Mar-14	18	675.3	668.7		2273.7	4012.1	1298.5	2233.1	3610.5
2014	4-Mar-14	19	696.9	683.4		2361.1	3952.5	1417.9	2284.5	3448.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	4-Mar-14	20	714.5	687.5		2349.5	3510.1	2113.3	2178.9	3263.2
2014	4-Mar-14	21	680.4	701.7		2342	3827.9	2283.2	2211.8	3298.8
2014	4-Mar-14	22	668	666.9		2306.8	3915.9	2361.1	2359.4	3323.2
2014	4-Mar-14	23	698	713.1		2271.2	3851.4	1879.3	2759.2	3230.1
2014	5-Mar-14	0	723.6	710.5		2210.5	3639.7	1501	2410.1	2846.9
2014	5-Mar-14	1	700.1	745.8		2164.2	3279.5	1301.5	2388.6	2722.5
2014	5-Mar-14	2	743.1	761.7		2159.6	3207.1	1062.5	2408.3	2676.4
2014	5-Mar-14	3	784.6	781.5		2211.6	3269.3	698.5	1738.8	2694.6
2014	5-Mar-14	4	741.1	761.2		2273.8	3254.2	725.5	1161.6	2687.6
2014	5-Mar-14	5	788.1	774.4		2267.3	3195.8	748.4	909.5	2467.6
2014	5-Mar-14	6	798.8	791.6		2295.8	3303	773.2	922.5	1639.3
2014	5-Mar-14	7	659.5	783.2		2323.1	3655.6	1285.7	986.6	1886.4
2014	5-Mar-14	8	485	932		2317.1	3761.4	2239.2	984.7	2913.9
2014	5-Mar-14	9	803	901.7		2300.4	3704	2181.3	1287.5	3080.6
2014	5-Mar-14	10	908.1	926.6		2273.3	3678	1121.7	1189	3054.8
2014	5-Mar-14	11	856.8	892		1764.9	3585.8	688.108	1241.7	3029.4
2014	5-Mar-14	12	821.7	854.2		1288.7	3529	0.019	1364.3	3001.9
2014	5-Mar-14	13	897.2	812.1		1263.3	3545.8		1637.2	3002.3
2014	5-Mar-14	14	1043.2	755.3		1271.6	3592.9		1535.5	2970.1
2014	5-Mar-14	15	1041.8	722.8		1268.8	3620.6		1464.8	2924.9
2014	5-Mar-14	16	1023.6	728.4		1244.4	3565.4		1528.8	2756.4
2014	5-Mar-14	17	993	691		1232.9	3587.9		1392.1	2779.2
2014	5-Mar-14	18	976.5	686.6		1216.3	3652.9		1541.3	2817.6
2014	5-Mar-14	19	952.4	678		1197.7	3596		1595.8	2749
2014	5-Mar-14	20	952.1	683.3	0.033	1187.1	3537.7		1696	2691.6
2014	5-Mar-14	21	917.3	686.5	0.064	1177.7	3560.8		1734.2	3032.6
2014	5-Mar-14	22	880	663	0.064	1156.6	3561		1620.6	3066.6
2014	5-Mar-14	23	809.4	599.6	0.064	1089	3505		1208	2571.2
2014	6-Mar-14	0	930	353	0.064	535.267	3368.6		1220.4	2556.5
2014	6-Mar-14	1	985.7	241.3	0.064		3089.1		1220.2	2896.4
2014	6-Mar-14	2	989.7	514.2	0.058		3044.1		1177.5	2831.3
2014	6-Mar-14	3	985.5	679	0.05		3080.2		1212.4	2863.9
2014	6-Mar-14	4	962.8	752.5	0.063		3132.7		1214.2	2780.1
2014	6-Mar-14	5	919.7	714.4	0.063		2469.3		1339.1	2872.6
2014	6-Mar-14	6	922.4	695.3	0.063		2210		1064.1	2709.3
2014	6-Mar-14	7	963.2	648.3	0.063		1919.4		1010	2577.8
2014	6-Mar-14	8	948.6	711.1	0.063		1798.3		1164.1	2505.6
2014	6-Mar-14	9	941.1	692.6	0.052		1761.7		1164.9	2489.2
2014	6-Mar-14	10	969.6	692.8	0.056		1775.4		1077.7	2866.7
2014	6-Mar-14	11	948.2	596.3	0.063		1775		1230.9	2852.9
2014	6-Mar-14	12	965	627.5	0.063		1567.6		1223.5	3283.8
2014	6-Mar-14	13	1009.8	633.9	0.062		1638.3		2068	3499.4
2014	6-Mar-14	14	987.6	714.5	0.049		1620.2		2552.1	3755
2014	6-Mar-14	15	946.9	784.2	0.049		1813.8		2884.3	4416.9



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	6-Mar-14	16	698	770.5	0.056		1829.1		2966.7	4571.1
2014	6-Mar-14	17	665.6	786.9	0.063		1748.5		1937.5	4552.8
2014	6-Mar-14	18	694.3	789.2	0.063		1852.8		1214.5	4068.8
2014	6-Mar-14	19	740.6	795.5	0.063		1887.9		1390.9	2584.8
2014	6-Mar-14	20	726.5	822.9	0.063		1846.9		1754.2	2366.6
2014	6-Mar-14	21	795.5	859.9	0.063		1948.9		1665.9	1876.5
2014	6-Mar-14	22	788	843.4	0.063		1881.6		1260.4	1924
2014	6-Mar-14	23	840.6	942.4	0.063		1779.1		969.9	1997.8
2014	7-Mar-14	0	901.7	1001.7	0.058		1750.9		927.2	2052.6
2014	7-Mar-14	1	1030	1058	0.049		1688.4		601.8	1937.4
2014	7-Mar-14	2	963.9	1201.6	0.055		1594.8		282.4	1774.1
2014	7-Mar-14	3	1063.8	1326.2	0.063		1543.3		154.7	1857.3
2014	7-Mar-14	4	1137.1	1374	0.063		1430.8		65.016	1984
2014	7-Mar-14	5	1190.4	1419.5	0.062		1318.7			1977.6
2014	7-Mar-14	6	1237.9	1437.3	0.054		1175.5			1952
2014	7-Mar-14	7	1229.1	1352.1	0.048		1024.4			1484.8
2014	7-Mar-14	8	1299.7	1498.3	0.048		997.3			1299.8
2014	7-Mar-14	9	1270.8	1370.2	0.062		965.2			1009.3
2014	7-Mar-14	10	1307.7	1539.6	0.063		949			984
2014	7-Mar-14	11	1171.9	1461.7	0.063		883			1356.7
2014	7-Mar-14	12	1261.1	1476.4	0.063		879.5			1362.6
2014	7-Mar-14	13	1285.1	1501.8	0.063		773.9			1194.2
2014	7-Mar-14	14	1305.5	1544.5	0.063		670.1			986.2
2014	7-Mar-14	15	1315.1	1408	0.063		621.1			963.3
2014	7-Mar-14	16	1323.2	1477.6	0.063		811.6			1111
2014	7-Mar-14	17	1309.3	1440.5	0.063		882.9			1402.7
2014	7-Mar-14	18	1361.1	1468.8	0.063		899.2			1741.4
2014	7-Mar-14	19	1360.2	1535.9	0.063		886.4			1892
2014	7-Mar-14	20	1264.6	1505.8	0.063		829.9			1994.2
2014	7-Mar-14	21	1297	1419.6	0.063		786.9			1455.1
2014	7-Mar-14	22	1316.2	1337.5	0.063	0	800.5			1540.8
2014	7-Mar-14	23	901.9	909.6	0.063	0	695.5			1005.4
2014	8-Mar-14	0	727	1413.2		10.5	715.4			656.4
2014	8-Mar-14	1	384.3	1428.1		3.7	770.5			87.815
2014	8-Mar-14	2	201.2	1223.6		2.7	700			
2014	8-Mar-14	3	123.7	879.9		0	665.6			
2014	8-Mar-14	4	0.52	1351		0	658.3			
2014	8-Mar-14	5		1553.8		0	646.9			
2014	8-Mar-14	6		1629.4		0	691.7			
2014	8-Mar-14	7		1429.5		16	633.6			
2014	8-Mar-14	8		1660.6		6.8	639.4			
2014	8-Mar-14	9		992.5		4.9	625			
2014	8-Mar-14	10		923.6		0	643.7			
2014	8-Mar-14	11		806.5		0	608.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	8-Mar-14	12		521		0	573.2			
2014	8-Mar-14	13		274.2		0	574.7			
2014	8-Mar-14	14		316.7		0	512.4			
2014	8-Mar-14	15		319.2		0	520.5			
2014	8-Mar-14	16		537.2		0	536.1			
2014	8-Mar-14	17		524.3		0	534.4			
2014	8-Mar-14	18		608.7		0	629.1			
2014	8-Mar-14	19		904.6		0	632.8			
2014	8-Mar-14	20		686.7		0	620.3			
2014	8-Mar-14	21		797.5		0	616.2			
2014	8-Mar-14	22		505.3		0	601.6			
2014	8-Mar-14	23		292.7		0	549.3			
2014	9-Mar-14	0		476.6		0	471.7			
2014	9-Mar-14	1		487		0	457.2			
2014	9-Mar-14	2		458.8		0	490.2			
2014	9-Mar-14	3		456.1		0	513.5			
2014	9-Mar-14	4		446.6		0	491.2			
2014	9-Mar-14	5		446.6		0	477.2			
2014	9-Mar-14	6		453.8		0	500.5			
2014	9-Mar-14	7		454.6		11.1	532			
2014	9-Mar-14	8		463		1.5	551.2			
2014	9-Mar-14	9		431.4		1.3	566.9			
2014	9-Mar-14	10		441.6		0	543.6			
2014	9-Mar-14	11		436.7		0	514.5			
2014	9-Mar-14	12		440.7		0	470.8			
2014	9-Mar-14	13		446.1		0	433.2			
2014	9-Mar-14	14		442.9		0	415.9			
2014	9-Mar-14	15		449.2		0	437			
2014	9-Mar-14	16		482		0	427.9			
2014	9-Mar-14	17		545.3		0	428			
2014	9-Mar-14	18		638.6		0	490.6			
2014	9-Mar-14	19		935.8		0	585			
2014	9-Mar-14	20		808.7		0	573.3			
2014	9-Mar-14	21		586		0	565.1			
2014	9-Mar-14	22		393.3		0	533.1			
2014	9-Mar-14	23		301.6		0	450.1			
2014	10-Mar-14	0		291		0	412			
2014	10-Mar-14	1		290.7		0	408.6			
2014	10-Mar-14	2		300		0	432.5			
2014	10-Mar-14	3		272.1		0	486.6			
2014	10-Mar-14	4		216.4		0	546.7			
2014	10-Mar-14	5		266.3		0	656			
2014	10-Mar-14	6		358.4		0	669.7			
2014	10-Mar-14	7		479.7		16.2	727.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	10-Mar-14	8		1058.3		7.4	728.6			
2014	10-Mar-14	9		1585.1		124.7	766.7			
2014	10-Mar-14	10		1335.3		541.2	802.7			
2014	10-Mar-14	11		1677.9		753.5	784.4			
2014	10-Mar-14	12		1290.9		724.6	822.9			
2014	10-Mar-14	13		672.6		638	825.8			
2014	10-Mar-14	14		365.6		692	837.2			
2014	10-Mar-14	15		218.4		694.6	839.7			
2014	10-Mar-14	16		157.1		697.2	815.9			
2014	10-Mar-14	17		140		705.4	797.7			
2014	10-Mar-14	18		144.6		794.8	770.7			
2014	10-Mar-14	19		292.5		1395.6	767.2			
2014	10-Mar-14	20		261.3		1393.5	757.3			
2014	10-Mar-14	21		223.5		829	679.3			
2014	10-Mar-14	22		406.7		737.6	590.3			
2014	10-Mar-14	23		371.4		739.6	546.1			
2014	11-Mar-14	0		311.6		737.9	569.3			
2014	11-Mar-14	1		326.6		737.6	556			
2014	11-Mar-14	2		329.7		739.5	526.8			
2014	11-Mar-14	3		323.2		736.8	523.7			
2014	11-Mar-14	4		318.6		730.1	523.9			
2014	11-Mar-14	5		346.3		753.2	613.3			
2014	11-Mar-14	6		557.8		929.3	698.3			
2014	11-Mar-14	7		879.9		1310.6	727			
2014	11-Mar-14	8		941.8		1391.7	735			
2014	11-Mar-14	9		1407.5		1545.1	649.2			
2014	11-Mar-14	10		1314.5		1548.5	636.4			
2014	11-Mar-14	11		941.6		1423	626.4			
2014	11-Mar-14	12		961.5		1574.1	630.1			2.775
2014	11-Mar-14	13		784.2		1503	627.7			1.6
2014	11-Mar-14	14		697.3		1416.1	621.6			1.8
2014	11-Mar-14	15	0	1034.6		1411.6	611.4			1.9
2014	11-Mar-14	16	0	1222.3		1342.4	551.2			1.8
2014	11-Mar-14	17	0	888.4		1047.3	454.2			1.4
2014	11-Mar-14	18	0	772.9		835	444.2			16.8
2014	11-Mar-14	19	0.9	734.2		755.1	494.8			10.9
2014	11-Mar-14	20	0	626.9		763.4	476.5			1.7
2014	11-Mar-14	21	0	505.4		756.9	451.5			12.2
2014	11-Mar-14	22	0	450.7		760.8	400.5			4.3
2014	11-Mar-14	23	0	416.5		769.1	404.4			134.6
2014	12-Mar-14	0	0	418.9		790.3	415.5			233.4
2014	12-Mar-14	1	0	390.5		788	414.3			356
2014	12-Mar-14	2	0	380.3		781.3	404.8			471.7
2014	12-Mar-14	3	0	350.6		750.8	416.9			445.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	12-Mar-14	4	0	345.4		745.7	423.3			419.1
2014	12-Mar-14	5	0	328.8		745.9	484.3			405.2
2014	12-Mar-14	6	0	427.9		860.1	543.2			380.7
2014	12-Mar-14	7	2.1	432		902	617.1			400.8
2014	12-Mar-14	8	0	358.2		837.4	616.8			414
2014	12-Mar-14	9	0	529.1		863.8	618.1			408.2
2014	12-Mar-14	10	0	650.1		1272.7	620.4			407.4
2014	12-Mar-14	11	10	688.6		1459.8	624.1			413.5
2014	12-Mar-14	12	29.1	831.9		1629.8	625.4			410
2014	12-Mar-14	13	58	1061.8		1639.4	623.7			436.9
2014	12-Mar-14	14	121.4	746.5		1496.3	618.3	0.011		438.6
2014	12-Mar-14	15	385.4	1139.2		1853.6	594.7	0.06		434
2014	12-Mar-14	16	867	1362.6		1846.5	595.7	0.075		425.3
2014	12-Mar-14	17	375.3	1285.5		1709.3	587.5	427.918		428.1
2014	12-Mar-14	18	370.7	1330.9		1862.1	599.7	515.5		568.9
2014	12-Mar-14	19	404	1102.8		1887.1	597.6	429		642.4
2014	12-Mar-14	20	146.4	1075.4		1871.9	601	521.7		637.1
2014	12-Mar-14	21	88	744		1853	590.6	561.5		589.3
2014	12-Mar-14	22	100.9	400.1		1567.4	584.3	561.4		583.7
2014	12-Mar-14	23	130.2	212.6		1218.5	527.5	608.5		566.1
2014	13-Mar-14	0	88.2	91.1		927.5	531.1	594.1		504.8
2014	13-Mar-14	1	52.4	46.9		815.4	544.3	607.2		393.1
2014	13-Mar-14	2	43.9	36.1		858.7	580.9	552.1		400.4
2014	13-Mar-14	3	29.7	29.4		841.8	578	535.6		400.6
2014	13-Mar-14	4	36.8	26		843.9	590.6	686.5		452.2
2014	13-Mar-14	5	102.7	90.5		1134.4	595.3	744.8		680.9
2014	13-Mar-14	6	488.2	206.9		1635.8	604.4	733.2		786.4
2014	13-Mar-14	7	594.6	189.2		1770.1	624	1203.5		751.5
2014	13-Mar-14	8	1079.3	276.2		1751.3	615.2	1535.1		723.5
2014	13-Mar-14	9	727.8	361.1		1775.9	646.3	917.8		727.2
2014	13-Mar-14	10	571.3	302.8		1758.2	643.7	805.5		730.6
2014	13-Mar-14	11	518.6	356.4		1758.3	652.1	712.2		776.7
2014	13-Mar-14	12	501.5	841.7		1741.3	650.8	711.8		715
2014	13-Mar-14	13	713.6	757		1727.6	646.6	686.4		703.8
2014	13-Mar-14	14	968.9	1142.8		1573.7	592.4	694.5		619.3
2014	13-Mar-14	15	1500	1560		1529.6	578.6	692.4		598.2
2014	13-Mar-14	16	1700.3	1908.5		1330	616.6	692.6		545
2014	13-Mar-14	17	1658.1	1010.8		939.4	629.1	691.2		536.2
2014	13-Mar-14	18	647.1	895.1		945.6	652	695.4		589
2014	13-Mar-14	19	597.7	859.2		1527.4	644.7	697.3		701.4
2014	13-Mar-14	20	623	920.6		1828.1	647.5	695.5		708.6
2014	13-Mar-14	21	625.2	907.2		1745.4	655	140.448		695.3
2014	13-Mar-14	22	628.1	950.8		1694.4	651.1			652.4
2014	13-Mar-14	23	681.3	846.8		1631.8	641.9			604.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Mar-14	0	758.5	987		1739.6	661.8			596.8
2014	14-Mar-14	1	820.5	1086.3		1583.2	663.8			608.8
2014	14-Mar-14	2	876	1194.7		1660.3	660.9			565.3
2014	14-Mar-14	3	839.3	1257.2		1690.5	664.6			551.7
2014	14-Mar-14	4	680.2	1154.5		1629.1	663			600.1
2014	14-Mar-14	5	736.3	1080.6		1680.3	663.3			605.4
2014	14-Mar-14	6	838	1011.3		1668.8	664.8			695.8
2014	14-Mar-14	7	938.1	1140.4		1668	650.8			707.4
2014	14-Mar-14	8	1037	1062		1669.2	650			691
2014	14-Mar-14	9	1140.7	1188.9		1676.7	636.8			706.1
2014	14-Mar-14	10	1003.5	975.2		1644	569.9			767.7
2014	14-Mar-14	11	671.8	471.9		1635	585.7			1072.6
2014	14-Mar-14	12	376.4	329.4		1206.2	619			1253.7
2014	14-Mar-14	13	588.1	174.672		771	632.8			1139.4
2014	14-Mar-14	14	372.1			726.2	618.4			945.3
2014	14-Mar-14	15	217.3			733	560.2			753
2014	14-Mar-14	16	135.8			736.1	506.5			834.4
2014	14-Mar-14	17	108.8			739.4	503.7			776.8
2014	14-Mar-14	18	128			790.8	524.6			625.2
2014	14-Mar-14	19	182			880.5	597.2			614.3
2014	14-Mar-14	20	193.5			807.8	571.8			562.2
2014	14-Mar-14	21	155.6			758.4	835.3			573.5
2014	14-Mar-14	22	152.2			771.5	1217.2			260.026
2014	14-Mar-14	23	158.2			391.204	1405.6			
2014	15-Mar-14	0	171.1				1486.5			
2014	15-Mar-14	1	191.2				1592.4			
2014	15-Mar-14	2	602.1				1911.1			
2014	15-Mar-14	3	990.8				2132			
2014	15-Mar-14	4	1098.6				2195.7			
2014	15-Mar-14	5	1136				2349.2			
2014	15-Mar-14	6	1065				2513.6			
2014	15-Mar-14	7	828.5				2529			
2014	15-Mar-14	8	700.7				2758.8			
2014	15-Mar-14	9	575.2				2787.4			
2014	15-Mar-14	10	361				2745			
2014	15-Mar-14	11	239				2673.5			
2014	15-Mar-14	12	200.5				2341.9			
2014	15-Mar-14	13	199.7				2132.3			
2014	15-Mar-14	14	192.4				1953			
2014	15-Mar-14	15	193.7				1996.4			
2014	15-Mar-14	16	193.6				2012.8			
2014	15-Mar-14	17	198.5				2016.9			
2014	15-Mar-14	18	208.7				2100.5			
2014	15-Mar-14	19	207.2				2237.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	15-Mar-14	20	216.7	0		0	2191.6			
2014	15-Mar-14	21	211.5	0		0	2094.3			
2014	15-Mar-14	22	207.4	0		9.2	2103.5			
2014	15-Mar-14	23	204.4	0		2.8	2098.6			
2014	16-Mar-14	0	200.3	1		0	2119.3			
2014	16-Mar-14	1	207.5	0		0.4	2136.7			
2014	16-Mar-14	2	209.4	0		0	2142.7			
2014	16-Mar-14	3	208.8	45.7		0	2158.9			
2014	16-Mar-14	4	206.9	128.1		0	2209.4			
2014	16-Mar-14	5	207.8	175.1		0	2415.2			
2014	16-Mar-14	6	224.6	208.8		0	2787.9			
2014	16-Mar-14	7	219.8	328.1		2.2	2805.6			
2014	16-Mar-14	8	204.4	211.1		5	2982.4			
2014	16-Mar-14	9	282.2	463		3.4	3139.8			
2014	16-Mar-14	10	363.8	526.6		0	3277.9			
2014	16-Mar-14	11	371.7	852.6		0	3379.4			
2014	16-Mar-14	12	529	1203.7		0	3538.4			
2014	16-Mar-14	13	477.5	563.3		0	3308.4			
2014	16-Mar-14	14	445.5	830.1		0	3161			
2014	16-Mar-14	15	518.2	1068.5		0	3480.4			
2014	16-Mar-14	16	990.3	1128.4		0	3567			2
2014	16-Mar-14	17	1390.9	1160.9		0	3552.9			24.1
2014	16-Mar-14	18	639.5	1214		0	3560.9			78.7
2014	16-Mar-14	19	609.4	1282.4		0	3599.2			86
2014	16-Mar-14	20	880	1279.8		0	3605.8			3.1
2014	16-Mar-14	21	1031.3	1280.1		0	3612.5			1.8
2014	16-Mar-14	22	1060.5	1207.9		0	3585.7			59.6
2014	16-Mar-14	23	969.5	967.5		0	3530.9			234.9
2014	17-Mar-14	0	807	1160.8		0	3578.7			485.2
2014	17-Mar-14	1	669.6	802.9		0	3603.7			505.8
2014	17-Mar-14	2	655.1	993.1		0	3643.8			515.6
2014	17-Mar-14	3	1129.3	1287.2		0	3696.2			826.5
2014	17-Mar-14	4	1155.3	1212.8		0	3722.6			1001.5
2014	17-Mar-14	5	1151.7	1267.6		0	3751.8			952
2014	17-Mar-14	6	1094.3	1159.5		0	3761.5			944.3
2014	17-Mar-14	7	925.7	1246.2		3.2	3746.5			942
2014	17-Mar-14	8	875.1	1091.4		4.2	3802.8			953.1
2014	17-Mar-14	9	772.7	896.5		1	3814.3			941.9
2014	17-Mar-14	10	793.8	766		0	3808.4			961.4
2014	17-Mar-14	11	783.3	778.5		0	3842.6			919.6
2014	17-Mar-14	12	770.3	800.9		0	3854.2			869.8
2014	17-Mar-14	13	787.9	740.6		0	3838.9			845.1
2014	17-Mar-14	14	824.2	741.8		159.7	3826.3			836.4
2014	17-Mar-14	15	859.4	745.8		481	3843.1			840.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	17-Mar-14	16	898.7	943.7		777.7	3874.2			810.5
2014	17-Mar-14	17	720.9	1004.9		1618.1	3896.5			810.7
2014	17-Mar-14	18	395.5	943.4		1720.2	3850.1			843.4
2014	17-Mar-14	19	376.2	988.3		1714.9	3801.9			823.9
2014	17-Mar-14	20	373.3	990.3		1707.3	3802.4			791.1
2014	17-Mar-14	21	383.6	1031.9		1717.4	3765.4			733.7
2014	17-Mar-14	22	944.2	1013.2		1711.1	3771.9			700.8
2014	17-Mar-14	23	1139.4	741.1		1711	3791.2			676.3
2014	18-Mar-14	0	1137.2	735.8		1630.5	3774			618.2
2014	18-Mar-14	1	1171.6	1248.1		1683.6	3824.4			677.5
2014	18-Mar-14	2	1164.9	1285.9		1683.3	3830			631.6
2014	18-Mar-14	3	1129.6	1183.1		1660.5	3882.4			740.6
2014	18-Mar-14	4	1108.5	1081.4		1716.6	3912.5			858.5
2014	18-Mar-14	5	1050.7	1118.5		1758.1	3938			850.4
2014	18-Mar-14	6	704.9	990.8		1783	3896.7			793.1
2014	18-Mar-14	7	761.1	1279.1		1809.5	3696.2			790.1
2014	18-Mar-14	8	935.4	1057.3		1861.4	3697.7			814.6
2014	18-Mar-14	9	866.2	961.6		1684.7	3748.7			806.3
2014	18-Mar-14	10	921.7	995.5		1661.6	3749.3			775.1
2014	18-Mar-14	11	1088.6	1156.5		1692.9	3822.9			715.5
2014	18-Mar-14	12	1203.4	688.2		1751	3882.3			727.4
2014	18-Mar-14	13	1236.9	1309.8		1752	3881			671.7
2014	18-Mar-14	14	1249	1204.3		1792.7	3805.2			599.4
2014	18-Mar-14	15	997.9	874.2		1838.1	3682			621.7
2014	18-Mar-14	16	1023.4	895.4		1853	3655.6			685.6
2014	18-Mar-14	17	1097.4	941.9		1861.5	3771.4			986
2014	18-Mar-14	18	1061.5	905.4		1881.4	3778.6			901.4
2014	18-Mar-14	19	1030.6	849.5		1887.4	3769.2			803.1
2014	18-Mar-14	20	997.2	874		1878.6	3762.5			688.9
2014	18-Mar-14	21	763.4	595.8		1885.7	3565.3			639.4
2014	18-Mar-14	22	465.9	344.2		1557.3	3339.1			516.5
2014	18-Mar-14	23	589.5	471.2		939.3	3335.5			450.6
2014	19-Mar-14	0	422.8	526.1		792.9	3326.2			452.5
2014	19-Mar-14	1	289.8	396.6		779.4	3339.3			446.2
2014	19-Mar-14	2	249.7	306		780.3	3277.9			439
2014	19-Mar-14	3	242.4	273.6		778.5	3088.6			458.5
2014	19-Mar-14	4	576.9	558.2		1215.2	2890.1			761.5
2014	19-Mar-14	5	965.9	1095.2		1898.3	2635.3			872.8
2014	19-Mar-14	6	705.2	762.8		1867.6	2404.4			833
2014	19-Mar-14	7	746.6	843		1845.2	2201.4			840
2014	19-Mar-14	8	746.7	794.2		1869.6	2162.3			839.3
2014	19-Mar-14	9	750.5	762.2		1887.1	2055			829.7
2014	19-Mar-14	10	748.1	773.8		1983.3	1974.7			827.2
2014	19-Mar-14	11	734.6	765.2		2093.7	1815.9			822

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	19-Mar-14	12	757.5	807.4		2082.6	1633.4			820.6
2014	19-Mar-14	13	712.9	753.1		2160.6	1458.9			849.9
2014	19-Mar-14	14	550.5	664		1840.2	1319.4			756
2014	19-Mar-14	15	506.6	813.8		1826.4	1274.6			795.3
2014	19-Mar-14	16	434.9	785.8		1777.4	995.7			771.3
2014	19-Mar-14	17	456.8	790.3		1823.7	818.4			834.7
2014	19-Mar-14	18	468	797.1		1794.9	814.3			849.4
2014	19-Mar-14	19	517.9	968.8		1759.1	1018.2			837.2
2014	19-Mar-14	20	539.4	980.7		1743.9	984.2			989.1
2014	19-Mar-14	21	442.3	727.8		1459.8	829.3			910.6
2014	19-Mar-14	22	546.6	561.7		865.8	675.6			634.7
2014	19-Mar-14	23	790.8	597.1		716.2	597.9			430.8
2014	20-Mar-14	0	485.6	479.4		729.7	588.9			46.1
2014	20-Mar-14	1	344.3	393.8		719.8	657.6			12.48
2014	20-Mar-14	2	326.6	342.8		720.9	666.8			
2014	20-Mar-14	3	310.2	337.4		727.2	693.7			
2014	20-Mar-14	4	832.5	1219.4		1380.9	788			
2014	20-Mar-14	5	947.9	1073.6		1866.3	1040.1			
2014	20-Mar-14	6	886	1095.6		1871.7	1146.6			
2014	20-Mar-14	7	740	991.2		1736.3	1011.1			
2014	20-Mar-14	8	555.3	669.3		1555.5	980			
2014	20-Mar-14	9	601.5	791.9		1663.3	1045.8			
2014	20-Mar-14	10	618.5	827.7		1699.8	928.4			
2014	20-Mar-14	11	632	858.1		1686.2	796.5			
2014	20-Mar-14	12	517.6	355.3		1558.3	659.3			
2014	20-Mar-14	13	425.8	103.3		1167.2	611.4			
2014	20-Mar-14	14	290.3	84.7		825.9	676.6			
2014	20-Mar-14	15	236.1	1.469		786.5	692			
2014	20-Mar-14	16	142.9			758.9	578.2			
2014	20-Mar-14	17	109.5			717.8	562.2			
2014	20-Mar-14	18	274.8			825.1	738.8			
2014	20-Mar-14	19	512			1490.5	670.6			
2014	20-Mar-14	20	699			1657	663.7			
2014	20-Mar-14	21	495.1			1040.8	652.4			
2014	20-Mar-14	22	320.6			736.7	546.1			
2014	20-Mar-14	23	225.3			718	405			
2014	21-Mar-14	0	237.7			740.8	399.3			
2014	21-Mar-14	1	233.5			745.4	282.8			
2014	21-Mar-14	2	230.4			750.7	10.59			
2014	21-Mar-14	3	265.8			754.3				
2014	21-Mar-14	4	807.8			967				
2014	21-Mar-14	5	768.6			1577.6				
2014	21-Mar-14	6	329.2			1731.1				
2014	21-Mar-14	7	322.3			1709.6				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	21-Mar-14	8	277.6			1608.3	0			
2014	21-Mar-14	9	181.2			1274	0			
2014	21-Mar-14	10	140.9			935.6	5			
2014	21-Mar-14	11	302.7			823.4	26.9			
2014	21-Mar-14	12	321.7			748.7	57.6			
2014	21-Mar-14	13	242.8			774.5	93.9			
2014	21-Mar-14	14	236.3			777.3	165			
2014	21-Mar-14	15	234.9			761.9	326.1			
2014	21-Mar-14	16	230.3			762	352.1			
2014	21-Mar-14	17	241.6			751.4	395.7			
2014	21-Mar-14	18	244.1			765.4	496.9			
2014	21-Mar-14	19	263			784.4	551.5			
2014	21-Mar-14	20	263.2			744.3	579.4			
2014	21-Mar-14	21	294.9			729.1	675.8			
2014	21-Mar-14	22	307.8			733.3	799			
2014	21-Mar-14	23	298.5			704.3	829.9			
2014	22-Mar-14	0	301.7			678	885.2			
2014	22-Mar-14	1	311			680.5	1116.5			
2014	22-Mar-14	2	324.2			687.6	809.7			
2014	22-Mar-14	3	332.4			700.5	177.7			
2014	22-Mar-14	4	347.5			723.1	14.85			
2014	22-Mar-14	5	365.1			747				
2014	22-Mar-14	6	372.5			752				
2014	22-Mar-14	7	396.3			773.2				
2014	22-Mar-14	8	356			766.5				
2014	22-Mar-14	9	362.8			780.3				
2014	22-Mar-14	10	325			861.2				
2014	22-Mar-14	11	265.7			759.7				
2014	22-Mar-14	12	201			763.5				
2014	22-Mar-14	13	176.6			764				
2014	22-Mar-14	14	146.9			771.2				
2014	22-Mar-14	15	178			767.3				
2014	22-Mar-14	16	182.8			747				
2014	22-Mar-14	17	166.4			760.8				8.72
2014	22-Mar-14	18	149.6			761.3				1.6
2014	22-Mar-14	19	143.9			758.2				4.5
2014	22-Mar-14	20	133.4	0		746.9				0.288
2014	22-Mar-14	21	123.5	0		729.4				
2014	22-Mar-14	22	112.2	0		723.3				
2014	22-Mar-14	23	102.2	0		725.6				
2014	23-Mar-14	0	96.4	1		721.3				
2014	23-Mar-14	1	94.8	0		716.3				
2014	23-Mar-14	2	94.5	0		721.9				
2014	23-Mar-14	3	90.7	0		732.2				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	23-Mar-14	4	90.6	0		726.8				
2014	23-Mar-14	5	87.1	0		729.5				
2014	23-Mar-14	6	92.2	0		734.9				
2014	23-Mar-14	7	87.3	14.2		719.5				
2014	23-Mar-14	8	91.7	25.1		731				
2014	23-Mar-14	9	124.2	30.4		801.5				
2014	23-Mar-14	10	210.3	9.9		838.2				
2014	23-Mar-14	11	233.4	0		767.3				
2014	23-Mar-14	12	221.9	0		733.8				
2014	23-Mar-14	13	189	0		737.1				
2014	23-Mar-14	14	190.5	0		789.1				
2014	23-Mar-14	15	206.8	0		727.2				
2014	23-Mar-14	16	198.5	0		735.6				
2014	23-Mar-14	17	223.9	0		736.7				
2014	23-Mar-14	18	246.2	0		759				
2014	23-Mar-14	19	329.5	4.8		939.2				
2014	23-Mar-14	20	411	2.58		979.3				
2014	23-Mar-14	21	513.5	13.5		1603.6				
2014	23-Mar-14	22	428.7	27.7		1664				
2014	23-Mar-14	23	374.1	114.9		1595.4				1.35
2014	24-Mar-14	0	319.9	211.2		1532.6				6.1
2014	24-Mar-14	1	273.1	358.4		1575.6				1.8
2014	24-Mar-14	2	241.6	356.3		1555.3				1.6
2014	24-Mar-14	3	436.4	397.6		1635.5				1.7
2014	24-Mar-14	4	742.7	347.3		1649.5				1.9
2014	24-Mar-14	5	960.6	428.3		1647.5				1.9
2014	24-Mar-14	6	1248.4	753.4		1680				4.6
2014	24-Mar-14	7	1237.3	1746.1		1636.7				1.9
2014	24-Mar-14	8	1197.9	913.4		1661.5				57
2014	24-Mar-14	9	1179.1	863.1		1669.8				143.8
2014	24-Mar-14	10	1066.5	870.8		1657				323
2014	24-Mar-14	11	1043.5	862.8		1630.9				494.763
2014	24-Mar-14	12	1020.5	798.5		1580.7				8.549
2014	24-Mar-14	13	885.2	613		1569.4				22.2
2014	24-Mar-14	14	534.3	476.6		1523.8				197.8
2014	24-Mar-14	15	308.9	371.5		1410.8				533.2
2014	24-Mar-14	16	265.9	318.9		1328.2				595
2014	24-Mar-14	17	112.4	251.5		1204.3				576.3
2014	24-Mar-14	18	231.8	71.6		789.2				590.7
2014	24-Mar-14	19	639.7	337.6		1047.2				745.6
2014	24-Mar-14	20	920	658.7		945.8				878.8
2014	24-Mar-14	21	788.7	590.9		794.8				831.2
2014	24-Mar-14	22	609.7	489.5		453.8				774.1
2014	24-Mar-14	23	866.2	563.1		540.9				727.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Mar-14	0	857.2	624.6		533.3				735.1
2014	25-Mar-14	1	775	660.4		444				639.9
2014	25-Mar-14	2	772.7	503.2		368.1				570.4
2014	25-Mar-14	3	866.4	611.5		312.9				655.2
2014	25-Mar-14	4	856.4	624.4		261				759
2014	25-Mar-14	5	857.8	619.2		231.6				761
2014	25-Mar-14	6	867.1	619.8		236.6				761.8
2014	25-Mar-14	7	854.4	632.7		257.8				707.1
2014	25-Mar-14	8	787.1	603.6		275.8				606.6
2014	25-Mar-14	9	830.6	628.8		275.2				632.1
2014	25-Mar-14	10	845.3	621.8		304				696.8
2014	25-Mar-14	11	881.7	404.7		285.8				799.7
2014	25-Mar-14	12	854.6	314		285.3				792.6
2014	25-Mar-14	13	846.5	446.7		283.3				764.2
2014	25-Mar-14	14	835.8	481.4		270.4				763.9
2014	25-Mar-14	15	832.7	592.6		263.6				756.5
2014	25-Mar-14	16	879.9	622.1		267.4				754.7
2014	25-Mar-14	17	870.5	597		265				722.9
2014	25-Mar-14	18	880.3	598.2		261				747
2014	25-Mar-14	19	863.1	622		261.1				768.2
2014	25-Mar-14	20	889.5	627.4		262.2				780.5
2014	25-Mar-14	21	909.4	634		256				738.9
2014	25-Mar-14	22	876.1	607.9		253.8				678
2014	25-Mar-14	23	778.3	580.6		251				662.6
2014	26-Mar-14	0	776.9	606		258.4				786.5
2014	26-Mar-14	1	914.9	755.7		257.7				780.4
2014	26-Mar-14	2	1119.9	1139.9		257.7				677.4
2014	26-Mar-14	3	1462.6	1313.6		258.3				672.8
2014	26-Mar-14	4	752.9	515.2		265.6				730.7
2014	26-Mar-14	5	958	615.7		269.2				785.6
2014	26-Mar-14	6	1027.4	628.4		269.1				780.2
2014	26-Mar-14	7	1033.6	726		273.6				736.6
2014	26-Mar-14	8	1044.1	705.7		283.6				707.2
2014	26-Mar-14	9	1052.6	670.2		301.5				758
2014	26-Mar-14	10	1040.5	344.1		298.3				781.1
2014	26-Mar-14	11	1074	345.3		280.4				756
2014	26-Mar-14	12	1077	782.6		285.1				736.8
2014	26-Mar-14	13	1057.1	771.2		287.2				656
2014	26-Mar-14	14	1013.6	757.4		284.8				591.7
2014	26-Mar-14	15	895.4	692.2		258.4				516
2014	26-Mar-14	16	576.5	491.2		258				436.4
2014	26-Mar-14	17	403.2	322.6		261.9				369.6
2014	26-Mar-14	18	482.1	320.7		267.6				435.1
2014	26-Mar-14	19	887.9	603.2		271.6				568.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	26-Mar-14	20	1123.3	702.1		269.9				735.6
2014	26-Mar-14	21	1155.8	733.1		267.6				730.1
2014	26-Mar-14	22	1212.5	706		256.8				727.6
2014	26-Mar-14	23	907	394.4		200.3				601.6
2014	27-Mar-14	0	580.2	405.2		187.9				486.5
2014	27-Mar-14	1	441.5	657.6		227.1				610.5
2014	27-Mar-14	2	367.9	690.1		245.7				533.8
2014	27-Mar-14	3	648.5	769		270.4				613.7
2014	27-Mar-14	4	498.6	820.7		266.6				660.4
2014	27-Mar-14	5	1056.9	876		271.2				771.9
2014	27-Mar-14	6	1253.4	827		268				774.8
2014	27-Mar-14	7	1292	893.7		261.9				746.4
2014	27-Mar-14	8	1305.7	850.2		265.2				741.9
2014	27-Mar-14	9	1126.1	815.4		266				715.1
2014	27-Mar-14	10	896	786.5		261.6				674
2014	27-Mar-14	11	852.3	769.5		259.1				643.9
2014	27-Mar-14	12	666	708.4		256				576.2
2014	27-Mar-14	13	487.8	662.4		255.3				581.8
2014	27-Mar-14	14	436	504.1		257.4				563.7
2014	27-Mar-14	15	404.9	245.7		254.6				566.2
2014	27-Mar-14	16	311.9	155.7		255.9				547.3
2014	27-Mar-14	17	230.9	116.4		255.5				413
2014	27-Mar-14	18	391.9	285.7		269.4				465.5
2014	27-Mar-14	19	515.9	431.2		301.9				526.4
2014	27-Mar-14	20	371	323.3		364.5				418.4
2014	27-Mar-14	21	371.4	303.5		461.9				476.1
2014	27-Mar-14	22	375.9	300.3		539.7				417.3
2014	27-Mar-14	23	348.1	306.6		507				392.1
2014	28-Mar-14	0	344.8	320.8		367.5				529.8
2014	28-Mar-14	1	352.6	315.5		380.4				98.82
2014	28-Mar-14	2	345.3	317.7		391.9				
2014	28-Mar-14	3	350.1	329.6		398.3				
2014	28-Mar-14	4	356.9	321		406.6				
2014	28-Mar-14	5	452.8	319.9		593.9				
2014	28-Mar-14	6	214.9	290.4		625.6				
2014	28-Mar-14	7	39.762	297		570.3				
2014	28-Mar-14	8		348.7		576.2				
2014	28-Mar-14	9		341.2		586				
2014	28-Mar-14	10		371.2		569				
2014	28-Mar-14	11		345.4		555.9				
2014	28-Mar-14	12		355.5		539.7				
2014	28-Mar-14	13		340.9		515.9				
2014	28-Mar-14	14		350.8		531.5				
2014	28-Mar-14	15		339.7		518				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	28-Mar-14	16		325.9		499.2				
2014	28-Mar-14	17		326.3		491.8				
2014	28-Mar-14	18		329.5		491.9				
2014	28-Mar-14	19		343.8		503.7				
2014	28-Mar-14	20		345.8		531.8				
2014	28-Mar-14	21		339		510.7				
2014	28-Mar-14	22		342.9		487.9				
2014	28-Mar-14	23		340.5		380.3				
2014	29-Mar-14	0		393		358				
2014	29-Mar-14	1		56.029		368				
2014	29-Mar-14	2				359.9				
2014	29-Mar-14	3				349.9				
2014	29-Mar-14	4				368.6				
2014	29-Mar-14	5				398.6				
2014	29-Mar-14	6				474.3				
2014	29-Mar-14	7				566.1				
2014	29-Mar-14	8				613.8				
2014	29-Mar-14	9				748.5				
2014	29-Mar-14	10				1059.3				
2014	29-Mar-14	11				1283.4				
2014	29-Mar-14	12				904.4				
2014	29-Mar-14	13				1017.9				
2014	29-Mar-14	14				943.5				
2014	29-Mar-14	15				678.5				
2014	29-Mar-14	16				921.3				
2014	29-Mar-14	17				892				
2014	29-Mar-14	18				776.7				
2014	29-Mar-14	19				871.9				
2014	29-Mar-14	20				1146.9				
2014	29-Mar-14	21				1457.9				
2014	29-Mar-14	22				1523.6				
2014	29-Mar-14	23				1557.1				
2014	30-Mar-14	0				1544.1				
2014	30-Mar-14	1				1221.9				
2014	30-Mar-14	2				769.5				
2014	30-Mar-14	3				714.5				
2014	30-Mar-14	4				711.8				
2014	30-Mar-14	5				719.9				
2014	30-Mar-14	6				729.4				
2014	30-Mar-14	7				736.9				
2014	30-Mar-14	8				819				
2014	30-Mar-14	9				1249.3				
2014	30-Mar-14	10				1617.3				
2014	30-Mar-14	11				1599.2				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	30-Mar-14	12				1599.5				
2014	30-Mar-14	13				1577.8				
2014	30-Mar-14	14				1560.2				
2014	30-Mar-14	15				1640.5				
2014	30-Mar-14	16				1656.2				
2014	30-Mar-14	17				1507.7				
2014	30-Mar-14	18				1196.4				
2014	30-Mar-14	19				1498.4				
2014	30-Mar-14	20				1709.3				
2014	30-Mar-14	21				1707.5				
2014	30-Mar-14	22				1710.2				
2014	30-Mar-14	23				1702.9				
2014	31-Mar-14	0				1712.8				
2014	31-Mar-14	1				1710.5				
2014	31-Mar-14	2				1751				
2014	31-Mar-14	3				1775.4				
2014	31-Mar-14	4				1776.4				
2014	31-Mar-14	5				1699.7				
2014	31-Mar-14	6				1683.3				
2014	31-Mar-14	7				1653.2				
2014	31-Mar-14	8				1677.6				
2014	31-Mar-14	9				1683.9				
2014	31-Mar-14	10				1608.5				
2014	31-Mar-14	11				1615.8				
2014	31-Mar-14	12				1541.5				
2014	31-Mar-14	13				1077.8				
2014	31-Mar-14	14				946.5				
2014	31-Mar-14	15				854.8				
2014	31-Mar-14	16				818.2				
2014	31-Mar-14	17				807.9				
2014	31-Mar-14	18				824.1				
2014	31-Mar-14	19				990.9				
2014	31-Mar-14	20				1002.6				
2014	31-Mar-14	21				845				
2014	31-Mar-14	22				842				
2014	31-Mar-14	23				824.3				
2014	1-Apr-14	0				1027.1				
2014	1-Apr-14	1				1853.6				
2014	1-Apr-14	2				1928.4				
2014	1-Apr-14	3				1945.6				
2014	1-Apr-14	4				1883.7				
2014	1-Apr-14	5				1871.1				
2014	1-Apr-14	6				1873.3				
2014	1-Apr-14	7				1709.2				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	1-Apr-14	8				1833.3				
2014	1-Apr-14	9				1685.1				
2014	1-Apr-14	10				1825.2				
2014	1-Apr-14	11				1826				
2014	1-Apr-14	12				1672.1				
2014	1-Apr-14	13				1484.5				
2014	1-Apr-14	14				1105.5				
2014	1-Apr-14	15				1057.8				
2014	1-Apr-14	16				1035				
2014	1-Apr-14	17				1021.1				
2014	1-Apr-14	18				1167.7				
2014	1-Apr-14	19				1704.9				
2014	1-Apr-14	20				1758.7				
2014	1-Apr-14	21				1632.4				
2014	1-Apr-14	22				1772.5				
2014	1-Apr-14	23				1665.6				
2014	2-Apr-14	0				1608.1				
2014	2-Apr-14	1				1608.2				
2014	2-Apr-14	2				1609.9				
2014	2-Apr-14	3				1613.1				
2014	2-Apr-14	4				1611.3				
2014	2-Apr-14	5				1829.9				
2014	2-Apr-14	6				2073				
2014	2-Apr-14	7				2146.8				
2014	2-Apr-14	8				2178.8				
2014	2-Apr-14	9				2165.8				
2014	2-Apr-14	10				2150.1				
2014	2-Apr-14	11				2145				
2014	2-Apr-14	12				2139				
2014	2-Apr-14	13				2151.8				
2014	2-Apr-14	14				2145.2				
2014	2-Apr-14	15				1899.4				
2014	2-Apr-14	16				1584.1				
2014	2-Apr-14	17				1522.9				
2014	2-Apr-14	18				1567.4				
2014	2-Apr-14	19				1785.4				
2014	2-Apr-14	20				1605.3				
2014	2-Apr-14	21				1545.5				
2014	2-Apr-14	22				1547.6				
2014	2-Apr-14	23				1534.7				
2014	3-Apr-14	0				1545.2				
2014	3-Apr-14	1				1314.7				
2014	3-Apr-14	2				1045.3				
2014	3-Apr-14	3				1017.7				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Apr-14	4				1009.5				
2014	3-Apr-14	5				1045.7				
2014	3-Apr-14	6				979.9				
2014	3-Apr-14	7				972				
2014	3-Apr-14	8				970.2				
2014	3-Apr-14	9				988.2				
2014	3-Apr-14	10				1079.5				
2014	3-Apr-14	11				1112.3				
2014	3-Apr-14	12				1176.4				
2014	3-Apr-14	13				1027.2				
2014	3-Apr-14	14				1065.6				
2014	3-Apr-14	15				1470.9				
2014	3-Apr-14	16				1760.1				
2014	3-Apr-14	17				1739.5				
2014	3-Apr-14	18				1711.5				
2014	3-Apr-14	19				1736.1				
2014	3-Apr-14	20				1710.6				
2014	3-Apr-14	21				1716.9				
2014	3-Apr-14	22				1687.3				
2014	3-Apr-14	23				1676				
2014	4-Apr-14	0				1664.4				
2014	4-Apr-14	1				1661.2				
2014	4-Apr-14	2				1680.2				
2014	4-Apr-14	3				1601.6				
2014	4-Apr-14	4				1672.4				
2014	4-Apr-14	5				1963.5				
2014	4-Apr-14	6				1887.6				
2014	4-Apr-14	7				1755.4				
2014	4-Apr-14	8				1602.4				
2014	4-Apr-14	9				1731				
2014	4-Apr-14	10				1619.4				
2014	4-Apr-14	11				1655.5				
2014	4-Apr-14	12				1686				
2014	4-Apr-14	13				1920				
2014	4-Apr-14	14				1822.3				
2014	4-Apr-14	15				1795.5				
2014	4-Apr-14	16				1784.8				
2014	4-Apr-14	17				1756.4				
2014	4-Apr-14	18				1657.4				
2014	4-Apr-14	19				1258.2				
2014	4-Apr-14	20				1090.7				
2014	4-Apr-14	21				604.7				
2014	4-Apr-14	22				58.518				
2014	4-Apr-14	23								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	5-Apr-14	0								
2014	5-Apr-14	1								
2014	5-Apr-14	2								
2014	5-Apr-14	3								
2014	5-Apr-14	4								
2014	5-Apr-14	5								
2014	5-Apr-14	6								
2014	5-Apr-14	7								
2014	5-Apr-14	8								
2014	5-Apr-14	9								
2014	5-Apr-14	10								
2014	5-Apr-14	11								
2014	5-Apr-14	12								
2014	5-Apr-14	13								
2014	5-Apr-14	14								
2014	5-Apr-14	15								
2014	5-Apr-14	16								
2014	5-Apr-14	17								
2014	5-Apr-14	18								
2014	5-Apr-14	19								
2014	5-Apr-14	20								
2014	5-Apr-14	21								
2014	5-Apr-14	22								
2014	5-Apr-14	23								
2014	6-Apr-14	0								
2014	6-Apr-14	1								
2014	6-Apr-14	2								
2014	6-Apr-14	3								
2014	6-Apr-14	4								
2014	6-Apr-14	5								
2014	6-Apr-14	6								
2014	6-Apr-14	7								
2014	6-Apr-14	8								
2014	6-Apr-14	9								
2014	6-Apr-14	10								
2014	6-Apr-14	11		0						
2014	6-Apr-14	12		0						
2014	6-Apr-14	13		0						
2014	6-Apr-14	14		0						
2014	6-Apr-14	15		1.6						
2014	6-Apr-14	16		0.8						
2014	6-Apr-14	17		0						
2014	6-Apr-14	18		0						
2014	6-Apr-14	19		0						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	6-Apr-14	20		0						
2014	6-Apr-14	21		0						
2014	6-Apr-14	22		0						
2014	6-Apr-14	23		0						
2014	7-Apr-14	0		0						
2014	7-Apr-14	1		0						
2014	7-Apr-14	2		0						0
2014	7-Apr-14	3		0						1.1
2014	7-Apr-14	4		0						0.7
2014	7-Apr-14	5		0						0.8
2014	7-Apr-14	6		0						2.1
2014	7-Apr-14	7		2.1						0.8
2014	7-Apr-14	8		0						0.8
2014	7-Apr-14	9		0						0.7
2014	7-Apr-14	10		0						0.6
2014	7-Apr-14	11		0						0.7
2014	7-Apr-14	12		0						0.2
2014	7-Apr-14	13		0						0
2014	7-Apr-14	14		6						51.6
2014	7-Apr-14	15		38.9						429.6
2014	7-Apr-14	16		44.7						330.1
2014	7-Apr-14	17		50.8						363.9
2014	7-Apr-14	18		49.3						593.1
2014	7-Apr-14	19		80.5						611.2
2014	7-Apr-14	20		106.6						1127.4
2014	7-Apr-14	21		191.3						1436.9
2014	7-Apr-14	22		244.2						1265.3
2014	7-Apr-14	23		281.5						1284.8
2014	8-Apr-14	0		330.1						784.8
2014	8-Apr-14	1		496.2						317.5
2014	8-Apr-14	2		756						310.5
2014	8-Apr-14	3		329						362.2
2014	8-Apr-14	4		275.3						494.5
2014	8-Apr-14	5		293						505.6
2014	8-Apr-14	6		406						496.4
2014	8-Apr-14	7		516.1						482.6
2014	8-Apr-14	8		523.8						486.6
2014	8-Apr-14	9		369.1						446.4
2014	8-Apr-14	10		281						376.2
2014	8-Apr-14	11		233.5						359.1
2014	8-Apr-14	12		215.7						333.7
2014	8-Apr-14	13		210						273.8
2014	8-Apr-14	14		208.8						280.3
2014	8-Apr-14	15		203.7						404.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	8-Apr-14	16		187.6						480.4
2014	8-Apr-14	17		196.5						385.8
2014	8-Apr-14	18		200.6						284.9
2014	8-Apr-14	19		223						292.6
2014	8-Apr-14	20		236.2						301.5
2014	8-Apr-14	21		231.8						322.6
2014	8-Apr-14	22		231						320.9
2014	8-Apr-14	23		228.7						322.2
2014	9-Apr-14	0		229						311.9
2014	9-Apr-14	1		215.3						310.6
2014	9-Apr-14	2		216.3						308.2
2014	9-Apr-14	3		216.8						314.8
2014	9-Apr-14	4		211.1						409.9
2014	9-Apr-14	5		228.7						495.5
2014	9-Apr-14	6		256.4						549
2014	9-Apr-14	7		328.6						541.8
2014	9-Apr-14	8		238.8						561.8
2014	9-Apr-14	9		244.1						617.3
2014	9-Apr-14	10		222.4						642.2
2014	9-Apr-14	11		238.5						676.2
2014	9-Apr-14	12		246.5						710.4
2014	9-Apr-14	13		245.1						711.8
2014	9-Apr-14	14		242.8						667.9
2014	9-Apr-14	15		245.1						688.2
2014	9-Apr-14	16		239.4						620.9
2014	9-Apr-14	17		244.1						495.4
2014	9-Apr-14	18		219.3						457.3
2014	9-Apr-14	19		252.7						431.2
2014	9-Apr-14	20		243.1						410.7
2014	9-Apr-14	21		207						416
2014	9-Apr-14	22		223						434.4
2014	9-Apr-14	23		215.9						433.6
2014	10-Apr-14	0		219.3						428.8
2014	10-Apr-14	1		227.2						425.3
2014	10-Apr-14	2		228.6						425.8
2014	10-Apr-14	3		242.6						477.2
2014	10-Apr-14	4		241.6						637.7
2014	10-Apr-14	5		289.4						705.9
2014	10-Apr-14	6		355.4						680
2014	10-Apr-14	7		461.9						656.4
2014	10-Apr-14	8		519.8						620
2014	10-Apr-14	9		858.4						578.7
2014	10-Apr-14	10		711.8						563.2
2014	10-Apr-14	11		589						544.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	10-Apr-14	12		534						520.7
2014	10-Apr-14	13		435.9						508.7
2014	10-Apr-14	14		332.8						504.4
2014	10-Apr-14	15		303.7						498.3
2014	10-Apr-14	16		307.3						506.2
2014	10-Apr-14	17		328.2						511.2
2014	10-Apr-14	18		336.2						515.8
2014	10-Apr-14	19		467.2						522
2014	10-Apr-14	20		522						509.4
2014	10-Apr-14	21		477.9						421.8
2014	10-Apr-14	22		353.9						303
2014	10-Apr-14	23		314.1						292.6
2014	11-Apr-14	0		286.6						332.9
2014	11-Apr-14	1		266.6						312.1
2014	11-Apr-14	2		266.2						314.3
2014	11-Apr-14	3		270.5						318.3
2014	11-Apr-14	4		270						417.4
2014	11-Apr-14	5		301.4						519.2
2014	11-Apr-14	6		333.6						495.8
2014	11-Apr-14	7		382.2						488.2
2014	11-Apr-14	8		395.7						486.7
2014	11-Apr-14	9		469.3						490.3
2014	11-Apr-14	10		589.8						479.1
2014	11-Apr-14	11		787.4						482.1
2014	11-Apr-14	12		642.3						507.9
2014	11-Apr-14	13		489.6						504.6
2014	11-Apr-14	14		485.2						504.2
2014	11-Apr-14	15		525.2						492.4
2014	11-Apr-14	16		565.6						415.4
2014	11-Apr-14	17		461.9						382.2
2014	11-Apr-14	18		342.1						540.3
2014	11-Apr-14	19		286.6						417.5
2014	11-Apr-14	20		356.4						
2014	11-Apr-14	21		383.6						
2014	11-Apr-14	22		480.1						
2014	11-Apr-14	23		513.5						
2014	12-Apr-14	0		522.5						
2014	12-Apr-14	1		437.2						
2014	12-Apr-14	2		434.3						
2014	12-Apr-14	3		448.2						
2014	12-Apr-14	4		452.9						
2014	12-Apr-14	5		815.6						
2014	12-Apr-14	6		1333.1						
2014	12-Apr-14	7		684.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	12-Apr-14	8		623.3						
2014	12-Apr-14	9		652.9						
2014	12-Apr-14	10		887.9						
2014	12-Apr-14	11	0	997.1						
2014	12-Apr-14	12	0	995.4						
2014	12-Apr-14	13	0	1073.7						
2014	12-Apr-14	14	0	1042.2						
2014	12-Apr-14	15	0	1016.5						
2014	12-Apr-14	16	0	1087.6						
2014	12-Apr-14	17	0	893.7						
2014	12-Apr-14	18	0	582.7						
2014	12-Apr-14	19	0	623						
2014	12-Apr-14	20	0	798.4						
2014	12-Apr-14	21	0	649.8						
2014	12-Apr-14	22	0	534.8						
2014	12-Apr-14	23	0	382						
2014	13-Apr-14	0	0	239.7						
2014	13-Apr-14	1	0	181.6						
2014	13-Apr-14	2	0	125.9						
2014	13-Apr-14	3	0	107.3						
2014	13-Apr-14	4	0	103.6						
2014	13-Apr-14	5	23	166.6						
2014	13-Apr-14	6	40.1	289.8						
2014	13-Apr-14	7	23.3	321.3						
2014	13-Apr-14	8	9.4	503.6						
2014	13-Apr-14	9	9.5	675.6						
2014	13-Apr-14	10	9.5	760.7						
2014	13-Apr-14	11	15	1139						
2014	13-Apr-14	12	20.4	1236.1						
2014	13-Apr-14	13	69	663.7						
2014	13-Apr-14	14	126.2	748						
2014	13-Apr-14	15	162.5	773.7						
2014	13-Apr-14	16	242.7	1094.5						
2014	13-Apr-14	17	356.7	1329						
2014	13-Apr-14	18	325.1	1143.6						
2014	13-Apr-14	19	229.8	1420.9						
2014	13-Apr-14	20	312.9	1493						
2014	13-Apr-14	21	523.8	1069.3						
2014	13-Apr-14	22	736.7	660.4						
2014	13-Apr-14	23	714.3	372.2						
2014	14-Apr-14	0	513.2	210.5						
2014	14-Apr-14	1	412.4	253.3						
2014	14-Apr-14	2	413.6	363						
2014	14-Apr-14	3	413	488.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Apr-14	4	452.6	1045.5						
2014	14-Apr-14	5	862	933.2						
2014	14-Apr-14	6	1201.4	970.5						
2014	14-Apr-14	7	586.6	854.7						
2014	14-Apr-14	8	349.7	632.4						
2014	14-Apr-14	9	290.1	601.3						
2014	14-Apr-14	10	338.5	1164.8						
2014	14-Apr-14	11	521.5	1073.6						
2014	14-Apr-14	12	693.3	1125.8						
2014	14-Apr-14	13	539.3	1562.3						
2014	14-Apr-14	14	282.8	739						
2014	14-Apr-14	15	229.9	549.9						
2014	14-Apr-14	16	244.2	992.3						
2014	14-Apr-14	17	217.1	1101.6						
2014	14-Apr-14	18	223.3	1251.4						
2014	14-Apr-14	19	319.1	1231						
2014	14-Apr-14	20	345.7	1222.7						
2014	14-Apr-14	21	186.4	536.5					0	
2014	14-Apr-14	22	134.2	231.5					0	
2014	14-Apr-14	23	97.6	109					0	
2014	15-Apr-14	0	93.9	90.5					0	
2014	15-Apr-14	1	101.1	265.3					3.6	0.2
2014	15-Apr-14	2	116.6	378.4					19.3	0.8
2014	15-Apr-14	3	112.5	423.7					30	0.5
2014	15-Apr-14	4	109.3	952.1					38.9	0.8
2014	15-Apr-14	5	108.5	1087.8					35.5	18.7
2014	15-Apr-14	6	114	1316.4					44.5	155.9
2014	15-Apr-14	7	112	996.2					48.4	288.5
2014	15-Apr-14	8	98.8	1015.2					47.2	423.8
2014	15-Apr-14	9	101	1067.2					28.7	522.6
2014	15-Apr-14	10	177.7	1108.7					32.8	379.7
2014	15-Apr-14	11	177.6	1185					15.4	459.9
2014	15-Apr-14	12	171.4	1227.8					0	364.5
2014	15-Apr-14	13	133.3	972.7						372.2
2014	15-Apr-14	14	136.1	762.2						373.9
2014	15-Apr-14	15	112.3	506.4						362.9
2014	15-Apr-14	16	106.2	391.8						373.5
2014	15-Apr-14	17	111.6	885.9						390.7
2014	15-Apr-14	18	107.9	1184.3						417.8
2014	15-Apr-14	19	132.7	1288.5					4.067	412.9
2014	15-Apr-14	20	135.2	1151					48.1	428.1
2014	15-Apr-14	21	132.2	711.2					51.5	418
2014	15-Apr-14	22	130.1	507					56.6	413.2
2014	15-Apr-14	23	132.3	349.5					46.3	420.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	16-Apr-14	0	128.3	251.4					52.1	426.1
2014	16-Apr-14	1	136.8	218					54.7	427
2014	16-Apr-14	2	131.6	239.8					57.8	424.5
2014	16-Apr-14	3	143.6	164.8					45.9	428.3
2014	16-Apr-14	4	259.3	299.8					43.8	566.7
2014	16-Apr-14	5	887.7	131.6					34.2	718.9
2014	16-Apr-14	6	1432.1	135.7					29.7	785.3
2014	16-Apr-14	7	1433.4	115.9						781.2
2014	16-Apr-14	8	1442.4	94.8						770.8
2014	16-Apr-14	9	1455.7	70.5						733.3
2014	16-Apr-14	10	1257.1	180.5						710.4
2014	16-Apr-14	11	784	160.1						629.6
2014	16-Apr-14	12	558.9	174.9						501.7
2014	16-Apr-14	13	423	139.3						356.8
2014	16-Apr-14	14	225.3	150.4						365.9
2014	16-Apr-14	15	186.3	134.5					0	375.2
2014	16-Apr-14	16	178.6	103					14.8	376.5
2014	16-Apr-14	17	169.9	86.7					45.1	465.6
2014	16-Apr-14	18	174.5	108.1					42.5	549.5
2014	16-Apr-14	19	229.3	96.4					37.1	734.8
2014	16-Apr-14	20	172	87.7					42.3	728.9
2014	16-Apr-14	21	140.9	90.7					42.6	707.9
2014	16-Apr-14	22	110.8	104					72.5	616.8
2014	16-Apr-14	23	87.5	92.4					114.1	619.5
2014	17-Apr-14	0	93.9	83.4					129	528.3
2014	17-Apr-14	1	107.6	97.7					175.8	417
2014	17-Apr-14	2	108.9	111					194.1	335.8
2014	17-Apr-14	3	155.8	157.9					158.8	117
2014	17-Apr-14	4	542.2	224					149.3	
2014	17-Apr-14	5	1231.1	229.6					171	
2014	17-Apr-14	6	1443.4	378.1					166.3	
2014	17-Apr-14	7	1310.7	1314.9					184.7	
2014	17-Apr-14	8	667	1114.8					188.5	
2014	17-Apr-14	9	305.3	1106.6					210.2	
2014	17-Apr-14	10	246	1128.3					4.6	
2014	17-Apr-14	11	176.8	1168.5					24.3	
2014	17-Apr-14	12	140.7	1139.3					16.4	
2014	17-Apr-14	13	127.7	1055.5					22.3	
2014	17-Apr-14	14	130.3	945.5					20.1	
2014	17-Apr-14	15	115.7	850.7					25.2	
2014	17-Apr-14	16	100.9	812.4					39.7	
2014	17-Apr-14	17	97.4	673.3					49.9	
2014	17-Apr-14	18	87.9	683					64.4	
2014	17-Apr-14	19	87	703.7					118.6	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	17-Apr-14	20	81.8	729.2					167.3	
2014	17-Apr-14	21	79.5	686.2					292.3	
2014	17-Apr-14	22	80.4	662.6					290.7	
2014	17-Apr-14	23	79.2	447.4					291.2	
2014	18-Apr-14	0	75.5	234.6					303.9	
2014	18-Apr-14	1	71.2	125.7					309.3	
2014	18-Apr-14	2	66.4	94.2					343.1	
2014	18-Apr-14	3	84.7	84					433.6	
2014	18-Apr-14	4	211.1	291.9					475.5	
2014	18-Apr-14	5	729.2	545.6					405.3	
2014	18-Apr-14	6	1102	771.6					400.6	
2014	18-Apr-14	7	995.3	818.1					331.1	
2014	18-Apr-14	8	737.8	377.9					308.1	
2014	18-Apr-14	9	506.9	219.6					308.1	
2014	18-Apr-14	10	405	193.4					378.8	
2014	18-Apr-14	11	277.5	154.9					406.1	
2014	18-Apr-14	12	213.3	114.3					395.5	
2014	18-Apr-14	13	160.7	72.6					388.9	
2014	18-Apr-14	14	147.7	63.4					414.9	
2014	18-Apr-14	15	157.9	79.6					390.5	
2014	18-Apr-14	16	179.9	90					379.7	
2014	18-Apr-14	17	165.5	111					373.4	
2014	18-Apr-14	18	165.1	114.1					392.5	
2014	18-Apr-14	19	200.2	111.1					397.6	
2014	18-Apr-14	20	438.8	115.4					361.5	
2014	18-Apr-14	21	462.2	108.4					261.1	
2014	18-Apr-14	22	289.7	117.3					212.4	
2014	18-Apr-14	23	205.7	108.1					211.7	
2014	19-Apr-14	0	180.3	105.6					204.9	
2014	19-Apr-14	1	167.6	100.8					203.9	
2014	19-Apr-14	2	165.9	86.1					210.6	
2014	19-Apr-14	3	161.2	98.5					281.7	
2014	19-Apr-14	4	159.8	93					390.5	
2014	19-Apr-14	5	171.4	130.2					384.8	
2014	19-Apr-14	6	169.3	132.1					371.9	
2014	19-Apr-14	7	246.8	209.7					376.5	
2014	19-Apr-14	8	330.8	188.8					406.4	
2014	19-Apr-14	9	524.4	210.3					355.4	
2014	19-Apr-14	10	358	148.6					342.4	
2014	19-Apr-14	11	245.5	130.6					437.9	
2014	19-Apr-14	12	180.8	129.3					392.3	
2014	19-Apr-14	13	138.3	127.2					501.8	
2014	19-Apr-14	14	138.2	132.3					481.6	
2014	19-Apr-14	15	171.3	130.6					325.4	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	19-Apr-14	16	165.4	127.8					301.6	
2014	19-Apr-14	17	156.7	125.2					267.8	
2014	19-Apr-14	18	158.7	123					204.6	
2014	19-Apr-14	19	203.6	125.6					176.8	
2014	19-Apr-14	20	249	126.9					164.3	
2014	19-Apr-14	21	240.6	131.8					181.8	
2014	19-Apr-14	22	198.1	121.3					126.9	
2014	19-Apr-14	23	215.5	126.4					99	
2014	20-Apr-14	0	136.8	123.8					44.29	
2014	20-Apr-14	1	137.5	127.1						
2014	20-Apr-14	2	141.5	127.1						
2014	20-Apr-14	3	144.2	129.8						
2014	20-Apr-14	4	196.7	139.4						
2014	20-Apr-14	5	222	139.4						
2014	20-Apr-14	6	202.6	131.1						
2014	20-Apr-14	7	167.3	137.1						
2014	20-Apr-14	8	191.1	132.8						
2014	20-Apr-14	9	147.4	131.7						
2014	20-Apr-14	10	158.2	129						
2014	20-Apr-14	11	153.9	129.7						
2014	20-Apr-14	12	152.3	131.2						
2014	20-Apr-14	13	143.6	132.4						
2014	20-Apr-14	14	152.2	131.2						
2014	20-Apr-14	15	145.3	134.8						
2014	20-Apr-14	16	148	129.7						
2014	20-Apr-14	17	141	131.6						
2014	20-Apr-14	18	154.9	137.4						
2014	20-Apr-14	19	166.6	138						
2014	20-Apr-14	20	192.6	133.7						
2014	20-Apr-14	21	149.5	61.2						
2014	20-Apr-14	22	140.7	123.6						
2014	20-Apr-14	23	151	122.7						
2014	21-Apr-14	0	150.5	122.9						
2014	21-Apr-14	1	136	119.9						
2014	21-Apr-14	2	140.3	119.4						
2014	21-Apr-14	3	200.8	160.7						
2014	21-Apr-14	4	427.6	274.5						
2014	21-Apr-14	5	826.9	509.9						
2014	21-Apr-14	6	955	660						
2014	21-Apr-14	7	1414	577.2						
2014	21-Apr-14	8	1000.4	363.2						
2014	21-Apr-14	9	917.8	366						
2014	21-Apr-14	10	854	334.2						
2014	21-Apr-14	11	1081.2	469						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	21-Apr-14	12	1315.4	719.6						
2014	21-Apr-14	13	1516.9	684.3						
2014	21-Apr-14	14	1479.2	662.9						
2014	21-Apr-14	15	1158.8	585.5						
2014	21-Apr-14	16	1210.9	630						
2014	21-Apr-14	17	1143.1	585.1						
2014	21-Apr-14	18	796.4	588.2						
2014	21-Apr-14	19	1296.8	936.8						
2014	21-Apr-14	20	1554.7	1173.5						
2014	21-Apr-14	21	1263.9	884.8						
2014	21-Apr-14	22	689	553.5						
2014	21-Apr-14	23	340.3	367.7						
2014	22-Apr-14	0	154	249						
2014	22-Apr-14	1	292	171						
2014	22-Apr-14	2	579.9	179.3						
2014	22-Apr-14	3	788	188.5						
2014	22-Apr-14	4	1358.9	192						
2014	22-Apr-14	5	1474.5	193						
2014	22-Apr-14	6	1455.6	194.4						
2014	22-Apr-14	7	1444.8	230.8						
2014	22-Apr-14	8	1474.8	207.5						
2014	22-Apr-14	9	1468.3	241						
2014	22-Apr-14	10	1496.7	226.9						
2014	22-Apr-14	11	1584.5	267.4						
2014	22-Apr-14	12	1583.1	298.6						
2014	22-Apr-14	13	1581.2	306.8						
2014	22-Apr-14	14	1579	497.1						
2014	22-Apr-14	15	1659.7	909.8						
2014	22-Apr-14	16	1686.7	1332.5						
2014	22-Apr-14	17	1300.8	1024.3						
2014	22-Apr-14	18	811.9	575.7						
2014	22-Apr-14	19	931.7	706.3						
2014	22-Apr-14	20	875.3	723.3						
2014	22-Apr-14	21	515.8	444.2						
2014	22-Apr-14	22	337.2	326.3						
2014	22-Apr-14	23	266.5	275.1						
2014	23-Apr-14	0	216.8	235.2						
2014	23-Apr-14	1	151.7	188.9						
2014	23-Apr-14	2	141.4	179.6						
2014	23-Apr-14	3	145.5	183.4						
2014	23-Apr-14	4	163.6	191.4						
2014	23-Apr-14	5	187.5	233.5						
2014	23-Apr-14	6	195.1	221.9						
2014	23-Apr-14	7	168.6	315.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	23-Apr-14	8	178.6	368.2						
2014	23-Apr-14	9	217.7	705.7						
2014	23-Apr-14	10	512.9	1012.3						
2014	23-Apr-14	11	561	1332.5						
2014	23-Apr-14	12	643.2	1320.2						
2014	23-Apr-14	13	861.9	1384.2						
2014	23-Apr-14	14	835	1100.2						
2014	23-Apr-14	15	984.8	919.7						
2014	23-Apr-14	16	1016.1	814.4						
2014	23-Apr-14	17	1278.4	803.5						
2014	23-Apr-14	18	1189.9	649						
2014	23-Apr-14	19	1368.1	965.9						
2014	23-Apr-14	20	1133	882.6						
2014	23-Apr-14	21	919.8	545.1						
2014	23-Apr-14	22	553.5	281.8						
2014	23-Apr-14	23	329.7	167.6						
2014	24-Apr-14	0	169.4	97.2						
2014	24-Apr-14	1	117	69.9						
2014	24-Apr-14	2	83.7	68.3						
2014	24-Apr-14	3	94.2	64.6						
2014	24-Apr-14	4	124.9	71.1						
2014	24-Apr-14	5	243.2	108.6						
2014	24-Apr-14	6	752.9	195						
2014	24-Apr-14	7	994.1	304.2						
2014	24-Apr-14	8	1137.7	339						
2014	24-Apr-14	9	1270.9	491.9						
2014	24-Apr-14	10	1371.1	575.2						
2014	24-Apr-14	11	1436.3	814.9						
2014	24-Apr-14	12	1391.5	1038.9						
2014	24-Apr-14	13	1466.4	1304.8						
2014	24-Apr-14	14	1533.8	1387.3						
2014	24-Apr-14	15	1531.4	1274.9						
2014	24-Apr-14	16	1449.7	1149.5						
2014	24-Apr-14	17	1402.2	1063.8						
2014	24-Apr-14	18	1366.3	1144.1						
2014	24-Apr-14	19	1369.4	1089.5						
2014	24-Apr-14	20	1343.1	993.5						
2014	24-Apr-14	21	1250.1	774.7						
2014	24-Apr-14	22	1058.6	629.7						
2014	24-Apr-14	23	704	273.6						
2014	25-Apr-14	0	370.1	105.8						
2014	25-Apr-14	1	224.1	88						
2014	25-Apr-14	2	160.4	142.9						
2014	25-Apr-14	3	125.6	110.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Apr-14	4	115.5	82.1						
2014	25-Apr-14	5	162.9	109.6						
2014	25-Apr-14	6	176.7	125						
2014	25-Apr-14	7	234	121						
2014	25-Apr-14	8	303.2	120.6						
2014	25-Apr-14	9	582.5	88.3						
2014	25-Apr-14	10	1119.8	334.9						
2014	25-Apr-14	11	1366.1	840.4						
2014	25-Apr-14	12	1363.6	812.3						
2014	25-Apr-14	13	1392.4	959.8						
2014	25-Apr-14	14	1214.9	725.6						
2014	25-Apr-14	15	1363.6	566.5						
2014	25-Apr-14	16	931	153.8						
2014	25-Apr-14	17	499.2	81.9						
2014	25-Apr-14	18	402.4	221.8						
2014	25-Apr-14	19	504	154.8						
2014	25-Apr-14	20	570	90.2						
2014	25-Apr-14	21	402.5	72.7						
2014	25-Apr-14	22	319.2	181.5						
2014	25-Apr-14	23	318.5	217.5						
2014	26-Apr-14	0	242.2	113.4						
2014	26-Apr-14	1	192.7	70						
2014	26-Apr-14	2	184.8	175.1						
2014	26-Apr-14	3	203.6	230.3						
2014	26-Apr-14	4	198.2	70						
2014	26-Apr-14	5	185.3	66.3						
2014	26-Apr-14	6	207.7	69.4						
2014	26-Apr-14	7	274.7	291.6						
2014	26-Apr-14	8	212.5	159						
2014	26-Apr-14	9	196.5	70.9						
2014	26-Apr-14	10	178.8	161.3						
2014	26-Apr-14	11	239.9	267.5						
2014	26-Apr-14	12	293.5	137.2						
2014	26-Apr-14	13	216.6	95.5						
2014	26-Apr-14	14	196.9	157.8						
2014	26-Apr-14	15	280.6	451.1						
2014	26-Apr-14	16	557.9	852.4						
2014	26-Apr-14	17	920.2	735.8						
2014	26-Apr-14	18	921.7	843.1						
2014	26-Apr-14	19	1064.9	812.3						
2014	26-Apr-14	20	999.8	591						
2014	26-Apr-14	21	574.4	298.8						
2014	26-Apr-14	22	300.3	434.4						
2014	26-Apr-14	23	234.3	452.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	27-Apr-14	0	205.9	167.2						
2014	27-Apr-14	1	199.1	93.9						
2014	27-Apr-14	2	189.6	206.8						
2014	27-Apr-14	3	190.5	223.7						
2014	27-Apr-14	4	189.1	194.1						
2014	27-Apr-14	5	181.6	171.1						
2014	27-Apr-14	6	192.3	135.5						
2014	27-Apr-14	7	188.6	231.7						
2014	27-Apr-14	8	189.6	226.3						
2014	27-Apr-14	9	168.9	185.2						
2014	27-Apr-14	10	177.1	189.3						
2014	27-Apr-14	11	165.6	237.8						
2014	27-Apr-14	12	161.4	203.9						
2014	27-Apr-14	13	155.1	184.2						
2014	27-Apr-14	14	162.5	175						
2014	27-Apr-14	15	203.8	287.4						
2014	27-Apr-14	16	537.9	352.1						
2014	27-Apr-14	17	819.4	247						
2014	27-Apr-14	18	915.5	706.1						
2014	27-Apr-14	19	1095.5	786						
2014	27-Apr-14	20	865.1	540						
2014	27-Apr-14	21	550	132.5						
2014	27-Apr-14	22	346.4	209.8						
2014	27-Apr-14	23	242.3	198.7						
2014	28-Apr-14	0	177.5	199.7						
2014	28-Apr-14	1	186.7	173.3						
2014	28-Apr-14	2	177.2	221.1						
2014	28-Apr-14	3	183.8	233.5						
2014	28-Apr-14	4	181.6	164.3						
2014	28-Apr-14	5	220.8	126						
2014	28-Apr-14	6	299.1	108.8						
2014	28-Apr-14	7	365.9	280.9						
2014	28-Apr-14	8	540.2	274.2						
2014	28-Apr-14	9	1318.4	188.9						
2014	28-Apr-14	10	955.1	236.5						
2014	28-Apr-14	11	1007.9	311.2						
2014	28-Apr-14	12	1448.5	305.6						
2014	28-Apr-14	13	1581.8	132.1						
2014	28-Apr-14	14	1628.6	428.8						
2014	28-Apr-14	15	1846.9	821.4						
2014	28-Apr-14	16	1525.9	1146.6						
2014	28-Apr-14	17	793.3	1291.7						
2014	28-Apr-14	18	794.2	1714.4						
2014	28-Apr-14	19	823.2	1118.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	28-Apr-14	20	703.9	541.3						
2014	28-Apr-14	21	470.5	375.3						
2014	28-Apr-14	22	316.4	330.7						
2014	28-Apr-14	23	297.6	150.7						
2014	29-Apr-14	0	370.7	68.5						
2014	29-Apr-14	1	235.4	71.1						
2014	29-Apr-14	2	210	145.4						
2014	29-Apr-14	3	222.9	134.2						
2014	29-Apr-14	4	220.3	105.6						
2014	29-Apr-14	5	233.7	163.5						
2014	29-Apr-14	6	308.3	204.4						
2014	29-Apr-14	7	443.3	499.6						
2014	29-Apr-14	8	602.4	329.2						
2014	29-Apr-14	9	883.6	266.7						
2014	29-Apr-14	10	1245.6	691.8						
2014	29-Apr-14	11	1758.3	700.8						
2014	29-Apr-14	12	744.8	868.6						
2014	29-Apr-14	13	511.7	584.8						
2014	29-Apr-14	14	487.3	1069.5						
2014	29-Apr-14	15	595.9	1110.1						
2014	29-Apr-14	16	556.8	1201.4						
2014	29-Apr-14	17	557	1066.8						
2014	29-Apr-14	18	493	1100.5						
2014	29-Apr-14	19	490.8	855						
2014	29-Apr-14	20	451.3	706.4						
2014	29-Apr-14	21	407.4	449.6						
2014	29-Apr-14	22	524.3	330.6						
2014	29-Apr-14	23	582.3	140.5						
2014	30-Apr-14	0	325.3	78.2						
2014	30-Apr-14	1	231.2	80.1						
2014	30-Apr-14	2	166.1	190.7						
2014	30-Apr-14	3	126.3	145.2						
2014	30-Apr-14	4	116.9	90.9						
2014	30-Apr-14	5	164.7	78.2						
2014	30-Apr-14	6	240.3	90.4						
2014	30-Apr-14	7	332.5	388.9						
2014	30-Apr-14	8	329.7	252.4						
2014	30-Apr-14	9	354.9	80.5						
2014	30-Apr-14	10	479.7	410.4						
2014	30-Apr-14	11	738.6	666.8						
2014	30-Apr-14	12	1108.4	999.6						
2014	30-Apr-14	13	1302.7	1060.5						
2014	30-Apr-14	14	1321.9	1130.3						
2014	30-Apr-14	15	1621.4	1457.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	30-Apr-14	16	827	1609.1						
2014	30-Apr-14	17	800.4	1695.4						
2014	30-Apr-14	18	753.8	1617.2						
2014	30-Apr-14	19	718.1	1528.6						
2014	30-Apr-14	20	716.1	681.3						
2014	30-Apr-14	21	527.4	422.2						
2014	30-Apr-14	22	365.4	328.9						
2014	30-Apr-14	23	449.6	431.2						
2014	1-May-14	0	355.1	364.8						
2014	1-May-14	1	251	290.9						
2014	1-May-14	2	220.6	249.8						
2014	1-May-14	3	245.5	239.5						
2014	1-May-14	4	249.7	267.2						
2014	1-May-14	5	259.3	267.4						
2014	1-May-14	6	251.3	220						
2014	1-May-14	7	252	229.1						
2014	1-May-14	8	227.7	212.5						
2014	1-May-14	9	197.6	226.5						
2014	1-May-14	10	183.8	226.8						
2014	1-May-14	11	175.7	213						
2014	1-May-14	12	191.1	234.9						
2014	1-May-14	13	174	209.7						
2014	1-May-14	14	186.1	203.9						
2014	1-May-14	15	171.2	194.2						
2014	1-May-14	16	155.1	209.4						
2014	1-May-14	17	144.6	192.8						
2014	1-May-14	18	133.5	183.4						
2014	1-May-14	19	166.7	236.5						
2014	1-May-14	20	193.5	296.5						
2014	1-May-14	21	139.1	203						
2014	1-May-14	22	142.8	183.4						
2014	1-May-14	23	135.7	213.9						
2014	2-May-14	0	145.3	220						
2014	2-May-14	1	134.2	213.1						
2014	2-May-14	2	140.4	201.2						
2014	2-May-14	3	131.9	193						
2014	2-May-14	4	380.3	419.2						
2014	2-May-14	5	1088.7	849.4						
2014	2-May-14	6	1457.7	1199.8						
2014	2-May-14	7	1457.6	1071						
2014	2-May-14	8	1189.4	654.6						
2014	2-May-14	9	843.5	550.9						
2014	2-May-14	10	537.1	725.1						
2014	2-May-14	11	440.1	414						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	2-May-14	12	398.2	457.1						
2014	2-May-14	13	580.7	266.7						
2014	2-May-14	14	629.4	180.8						
2014	2-May-14	15	471.1	171.8						
2014	2-May-14	16	632.9	352.6						
2014	2-May-14	17	493.2	663						
2014	2-May-14	18	366.6	402.1						
2014	2-May-14	19	338.4	357.9						
2014	2-May-14	20	228.9	290.7						
2014	2-May-14	21	186.8	210.4						
2014	2-May-14	22	138.2	175.5						
2014	2-May-14	23	116.1	122.9						
2014	3-May-14	0	112	42						
2014	3-May-14	1	127.7	139.6						
2014	3-May-14	2	125.6	127.4						
2014	3-May-14	3	129.2	136.2						
2014	3-May-14	4	128.9	133.1						
2014	3-May-14	5	315.4	316.7						
2014	3-May-14	6	838.5	725.4						
2014	3-May-14	7	1112.1	1722.8						
2014	3-May-14	8	1169.6	1511.9						
2014	3-May-14	9	1168.9	1566.8						
2014	3-May-14	10	1210.5	1606.5						
2014	3-May-14	11	1177.3	1487.5						
2014	3-May-14	12	1133.3	1426.6						
2014	3-May-14	13	1091.2	746.2						
2014	3-May-14	14	1173.2	1102.8						
2014	3-May-14	15	1171.3	1016.8						
2014	3-May-14	16	1274.2	979.6						
2014	3-May-14	17	1064.1	730.6						
2014	3-May-14	18	1152.4	1094.5						
2014	3-May-14	19	1675.3	1399.8						
2014	3-May-14	20	1798.7	1360.5						
2014	3-May-14	21	1768.2	1299						
2014	3-May-14	22	1619.7	1006.3						
2014	3-May-14	23	1290.6	719.9						
2014	4-May-14	0	906.8	555						
2014	4-May-14	1	599.7	367.6						
2014	4-May-14	2	400.2	274.9						
2014	4-May-14	3	318.1	207.7						
2014	4-May-14	4	209.4	220						
2014	4-May-14	5	205.8	240.8						
2014	4-May-14	6	198.3	214.3						
2014	4-May-14	7	182.6	188.6						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	4-May-14	8	158	176.5						
2014	4-May-14	9	153.4	160.7						
2014	4-May-14	10	153.1	179.7						
2014	4-May-14	11	154.1	162.1						
2014	4-May-14	12	147.4	179.8						
2014	4-May-14	13	149.6	163.4						
2014	4-May-14	14	136.5	160.1						
2014	4-May-14	15	157.2	171.8						
2014	4-May-14	16	286.4	267						
2014	4-May-14	17	380.3	337						
2014	4-May-14	18	366.6	334.4						
2014	4-May-14	19	418	375.7						
2014	4-May-14	20	437.3	376.3						
2014	4-May-14	21	397.5	312.5						
2014	4-May-14	22	367.1	308.8						
2014	4-May-14	23	363.1	309.8						
2014	5-May-14	0	339.1	315.8						
2014	5-May-14	1	347	305.5						
2014	5-May-14	2	348.3	302.4						
2014	5-May-14	3	355.3	300.1						
2014	5-May-14	4	354.3	301.4						
2014	5-May-14	5	664.9	507.4						
2014	5-May-14	6	1257.4	912.1						
2014	5-May-14	7	1568.6	1192.1						
2014	5-May-14	8	1483.3	1105.8						
2014	5-May-14	9	1283.4	989.3						
2014	5-May-14	10	1260.3	921						
2014	5-May-14	11	1555.6	1092.2						
2014	5-May-14	12	1426.5	1082.6						
2014	5-May-14	13	1310.9	1007.6						
2014	5-May-14	14	1083.4	857.6						
2014	5-May-14	15	731.8	622.6						
2014	5-May-14	16	996.7	674.1						
2014	5-May-14	17	1046.6	781.9						
2014	5-May-14	18	706	624						
2014	5-May-14	19	627.3	633						
2014	5-May-14	20	606.8	676.3						
2014	5-May-14	21	465.9	563.8						
2014	5-May-14	22	333.1	376						
2014	5-May-14	23	266.2	226						
2014	6-May-14	0	200.3	159.5						
2014	6-May-14	1	163.1	164						
2014	6-May-14	2	158	160.3						
2014	6-May-14	3	151.1	154.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	6-May-14	4	146.2	154.9						
2014	6-May-14	5	270.9	349.2						
2014	6-May-14	6	697	749.6						
2014	6-May-14	7	1423	1399.6						
2014	6-May-14	8	1169.7	1144.8						
2014	6-May-14	9	835.9	809.7						2.4
2014	6-May-14	10	624.3	617.5						1
2014	6-May-14	11	588.4	516.1						2.1
2014	6-May-14	12	676.6	585						0.8
2014	6-May-14	13	560.9	600.5						0.7
2014	6-May-14	14	445.2	435.2						0.7
2014	6-May-14	15	552.8	495.5						0.7
2014	6-May-14	16	452.2	380.9						0.6
2014	6-May-14	17	407.2	351.5						0.5
2014	6-May-14	18	297.5	340						0.5
2014	6-May-14	19	250.7	294.5						0.5
2014	6-May-14	20	280.7	328.8						0.5
2014	6-May-14	21	236.7	227.1						0.5
2014	6-May-14	22	211.7	246.7						0.5
2014	6-May-14	23	202.5	236.8						1.1
2014	7-May-14	0	198.5	226.4						30.8
2014	7-May-14	1	189.5	228.8						158.6
2014	7-May-14	2	199.3	226.2						379.5
2014	7-May-14	3	192.7	219.8						375.8
2014	7-May-14	4	192.2	237.5						397.2
2014	7-May-14	5	194.8	213						411.3
2014	7-May-14	6	186.3	193.6						411
2014	7-May-14	7	193	205.9						409.9
2014	7-May-14	8	213.3	208.7						447.2
2014	7-May-14	9	251.7	201.7						445.9
2014	7-May-14	10	175	167.5						416
2014	7-May-14	11	199.2	174.3						435.2
2014	7-May-14	12	255	197.3						418.1
2014	7-May-14	13	172.1	141.3						399.6
2014	7-May-14	14	183.6	162.6						406.4
2014	7-May-14	15	189.6	169.6						422.8
2014	7-May-14	16	229.2	191.2						427.3
2014	7-May-14	17	245	171.8						404
2014	7-May-14	18	160.8	170.3						409.6
2014	7-May-14	19	169.4	165						413.6
2014	7-May-14	20	251.2	207.4						466.6
2014	7-May-14	21	204.4	170						441.9
2014	7-May-14	22	191.4	189.6						441.8
2014	7-May-14	23	201.7	190.4						441.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	8-May-14	0	213.5	195.6						437.8
2014	8-May-14	1	219.4	217.1						419.5
2014	8-May-14	2	224.7	216.9	0.014					415.3
2014	8-May-14	3	219.8	207.6	0.067					412.9
2014	8-May-14	4	213.3	214.4	0.067					403.9
2014	8-May-14	5	210.9	215.5	0.078					398.4
2014	8-May-14	6	253.1	212.8	0.083					462.5
2014	8-May-14	7	269.5	249.8	0.079					553.2
2014	8-May-14	8	470.1	357.6	0.079					692.4
2014	8-May-14	9	789.5	485.6	0.12					766.1
2014	8-May-14	10	1113.5	722.1	0.085					760.4
2014	8-May-14	11	1334	865.7						726.5
2014	8-May-14	12	1826.5	1069.3						738.4
2014	8-May-14	13	1638.5	1311.5						750.1
2014	8-May-14	14	986.7	1405.2						719.9
2014	8-May-14	15	1038.8	1494.1						737.9
2014	8-May-14	16	1014.6	1535.2						740.8
2014	8-May-14	17	997.9	1400						752.3
2014	8-May-14	18	943.6	1364.9						754.9
2014	8-May-14	19	911.3	1268.3						730.8
2014	8-May-14	20	895.7	1338						737.8
2014	8-May-14	21	826.9	1203.7						705.3
2014	8-May-14	22	790.3	1120.2						682.8
2014	8-May-14	23	460.8	953.1						592.7
2014	9-May-14	0	390.7	774.6						532.9
2014	9-May-14	1	422.3	553						436.3
2014	9-May-14	2	298.3	402.3						406.4
2014	9-May-14	3	262.7	318.2						403.9
2014	9-May-14	4	257.3	322.5						417.9
2014	9-May-14	5	262.5	321						419.2
2014	9-May-14	6	268	306.2						436.9
2014	9-May-14	7	251.9	361.7						434.8
2014	9-May-14	8	237.7	330.5						423.7
2014	9-May-14	9	257.9	374.6						471.5
2014	9-May-14	10	333.8	447.4						447
2014	9-May-14	11	442.1	463.2						474.2
2014	9-May-14	12	461.5	367.6						418.8
2014	9-May-14	13	563.8	309						445.2
2014	9-May-14	14	615.1	295.7						455.9
2014	9-May-14	15	445.4	229						421.6
2014	9-May-14	16	345	205.2						423.8
2014	9-May-14	17	337.5	202						422.1
2014	9-May-14	18	603.9	298.3						534.3
2014	9-May-14	19	1119.8	495.8						730.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	9-May-14	20	1237	604.8						730.5
2014	9-May-14	21	923.5	478.4						592.1
2014	9-May-14	22	859.9	312.2						468.8
2014	9-May-14	23	240.3	191.9						410.4
2014	10-May-14	0	178.5	127.8						400.6
2014	10-May-14	1	138	98.5						400.5
2014	10-May-14	2	106.6	106						401.9
2014	10-May-14	3	80.4	103.5						395.5
2014	10-May-14	4	76.9	105.2						398.6
2014	10-May-14	5	76.2	116						403.4
2014	10-May-14	6	77.7	117.5						401.5
2014	10-May-14	7	70.3	136.6						404.5
2014	10-May-14	8	61	120						403.1
2014	10-May-14	9	85.1	149.6						430.8
2014	10-May-14	10	303.3	383.9						403.4
2014	10-May-14	11	669.7	630.9						408.2
2014	10-May-14	12	894.5	674.5						408.2
2014	10-May-14	13	692.7	547.8						406.9
2014	10-May-14	14	554.4	439.1						408.7
2014	10-May-14	15	426.3	360.6						407.7
2014	10-May-14	16	412.6	360.1						412.9
2014	10-May-14	17	350.5	333.5						405.7
2014	10-May-14	18	329.5	325.7	0.053					404.6
2014	10-May-14	19	240.9	213.1	0.069					404.9
2014	10-May-14	20	174.6	184.9	0.084					403
2014	10-May-14	21	128.8	153.1	0.083					400
2014	10-May-14	22	94.1	114.9	0.072					402.4
2014	10-May-14	23	71.5	96.7	0.081					401.3
2014	11-May-14	0	66.3	93	0.054					403.3
2014	11-May-14	1	71.7	94.5	0.049					402.6
2014	11-May-14	2	75.1	93.3	0.049					400.7
2014	11-May-14	3	67	90.8	0.05					401.8
2014	11-May-14	4	65.1	88.4	0.049					402
2014	11-May-14	5	62.3	89.9	0.049					398.8
2014	11-May-14	6	62.7	80.5	0.049					401.4
2014	11-May-14	7	62.8	106	0.049					403.2
2014	11-May-14	8	67.3	114.6	0.049					403.3
2014	11-May-14	9	71	112.7	0.049					406.2
2014	11-May-14	10	70.6	115.7	0.049					400.3
2014	11-May-14	11	70.9	105.6	0.061					432.3
2014	11-May-14	12	78.4	106.8	0.059					416.4
2014	11-May-14	13	101.4	138.9	0.05					512.2
2014	11-May-14	14	144.1	190.8	0.042					618.6
2014	11-May-14	15	222.6	316.6						719.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	11-May-14	16	531.9	554.8						656.7
2014	11-May-14	17	1049.9	757.1						719.8
2014	11-May-14	18	1141.7	817.1						737.7
2014	11-May-14	19	1074.7	793.5						760.9
2014	11-May-14	20	1332.1	826.6						742.8
2014	11-May-14	21	1501.5	995.5						787.7
2014	11-May-14	22	1199.9	912.7						704.8
2014	11-May-14	23	666.7	515.7						563.3
2014	12-May-14	0	346.2	280.9	0.053					401.5
2014	12-May-14	1	206.9	201	0.055					399.9
2014	12-May-14	2	134.3	162.1	0.059					405.8
2014	12-May-14	3	131.7	166.7	0.051					427.5
2014	12-May-14	4	364.9	286.4	0.051					615.7
2014	12-May-14	5	1272.5	551.8	0.051					588.4
2014	12-May-14	6	1649.2	919.6	0.065					539.1
2014	12-May-14	7	1817.1	1223.8	0.116					527.6
2014	12-May-14	8	1011.2	1124.9	0.212					429
2014	12-May-14	9	881.4	1221.9	0.228					433.8
2014	12-May-14	10	810.4	1138.2	0.222					552
2014	12-May-14	11	647.2	956.8	0.22					441.9
2014	12-May-14	12	802.5	1197.1	0.231					573.7
2014	12-May-14	13	745.6	963	0.232					518.7
2014	12-May-14	14	740.7	866.8	0.223					531.5
2014	12-May-14	15	855.7	1180.8	0.34					648.8
2014	12-May-14	16	851	1064.2	0.573					658.6
2014	12-May-14	17	901.3	1107.1	0.522					652.1
2014	12-May-14	18	896.8	1168	0.391					650.2
2014	12-May-14	19	820.5	1185.2	0.262					669.3
2014	12-May-14	20	646.5	1197.3	0.209					630
2014	12-May-14	21	400.7	781.1						595
2014	12-May-14	22	418.5	715.2						537.7
2014	12-May-14	23	362.8	596						556.2
2014	13-May-14	0	432.3	486.8						402.8
2014	13-May-14	1	426.3	306						424.3
2014	13-May-14	2	440.6	356.5						424.8
2014	13-May-14	3	841	724.7	0.022					419.3
2014	13-May-14	4	1288	1107.9	0.035					422.6
2014	13-May-14	5	931.8	1205.2	0.038					498
2014	13-May-14	6	949.2	1182	0.053					559.7
2014	13-May-14	7	817.9	1057.5	0.126					583.7
2014	13-May-14	8	884.3	1004.4	0.229					620.1
2014	13-May-14	9	847.1	1044.9	0.234					622.3
2014	13-May-14	10	880.3	1135.6	0.078					714.8
2014	13-May-14	11	860.5	1059.1						746.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	13-May-14	12	856.7	1107.1						735.1
2014	13-May-14	13	773.5	1108						717.8
2014	13-May-14	14	789.2	1101.1						722.8
2014	13-May-14	15	793	1051.9						716
2014	13-May-14	16	728.3	1070.9						709.4
2014	13-May-14	17	763	1074.9						693.4
2014	13-May-14	18	768.3	1137.2						704.9
2014	13-May-14	19	854	1226.5						672.7
2014	13-May-14	20	893.2	1185.1						646.8
2014	13-May-14	21	917.5	1320.8						545.6
2014	13-May-14	22	911.1	1263.2						256.7
2014	13-May-14	23	642.1	970						32.616
2014	14-May-14	0	478.6	822						
2014	14-May-14	1	350	628.9						
2014	14-May-14	2	224.6	536.1	0.027					
2014	14-May-14	3	205.7	424.2	0.063					
2014	14-May-14	4	378.7	615.6	0.074					
2014	14-May-14	5	815	1079.6	0.084					
2014	14-May-14	6	936	1188.9	0.082		0			
2014	14-May-14	7	923	1350.7	0.064		0			
2014	14-May-14	8	906.6	1206.7	0.064		5.7			
2014	14-May-14	9	942.1	1250.1	0.064		12.5			
2014	14-May-14	10	915.6	1269.6	0.057		14.7			
2014	14-May-14	11	886.5	1232.2	0.05		384.5			
2014	14-May-14	12	675.8	933.1	0.05		505.7			
2014	14-May-14	13	534.5	720	0.05		491.5			
2014	14-May-14	14	544	600.6	0.05		464.7			
2014	14-May-14	15	680.4	535.3	0.05		502.6			
2014	14-May-14	16	590.4	448	0.05		406.9			
2014	14-May-14	17	526	439.5	0.05		419.7			
2014	14-May-14	18	509.8	404.1	0.05		415.8			
2014	14-May-14	19	490.7	443.7	0.049		393			
2014	14-May-14	20	579	469.6	0.049		392.4			
2014	14-May-14	21	556.1	440.8	0.049		390.9			
2014	14-May-14	22	493.7	392.8	0.049		291.975			
2014	14-May-14	23	416.2	332	0.05					
2014	15-May-14	0	349.5	283.6	0.05					
2014	15-May-14	1	327.9	249.8	0.05					
2014	15-May-14	2	303	239.1	0.05					
2014	15-May-14	3	274.2	195.3	0.05					
2014	15-May-14	4	250	192.8	0.045					
2014	15-May-14	5	608.2	370.5	0.036					
2014	15-May-14	6	833.2	473.5	0.04					
2014	15-May-14	7	631.1	9.2	0.057					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	15-May-14	8	595.7	1.8	0.142					
2014	15-May-14	9	710.4	2.7	0.134					
2014	15-May-14	10	762.6	2.9						
2014	15-May-14	11	770.8	125.3						
2014	15-May-14	12	757.4	556.4						
2014	15-May-14	13	629.5	183.1						
2014	15-May-14	14	695.5	357.7						
2014	15-May-14	15	708.3	400.1						
2014	15-May-14	16	647.5	303.8						
2014	15-May-14	17	662.4	456						
2014	15-May-14	18	539.8	591.8						
2014	15-May-14	19	490.3	583.1						
2014	15-May-14	20	435.2	626.9						
2014	15-May-14	21	401.4	568.4						
2014	15-May-14	22	575	493.5						
2014	15-May-14	23	630.4	303.2						
2014	16-May-14	0	465	400.2						
2014	16-May-14	1	355.9	278						
2014	16-May-14	2	390.8	44.044						
2014	16-May-14	3	668.4							
2014	16-May-14	4	1150.3							
2014	16-May-14	5	1756							
2014	16-May-14	6	1947.3							
2014	16-May-14	7	1940.8							
2014	16-May-14	8	1881.5							
2014	16-May-14	9	2111.1							
2014	16-May-14	10	1711.1							
2014	16-May-14	11	1045.6							
2014	16-May-14	12	351.3							
2014	16-May-14	13	327.4							
2014	16-May-14	14	2.682							
2014	16-May-14	15								
2014	16-May-14	16								
2014	16-May-14	17								
2014	16-May-14	18								
2014	16-May-14	19								
2014	16-May-14	20								
2014	16-May-14	21								
2014	16-May-14	22								
2014	16-May-14	23								
2014	17-May-14	0								
2014	17-May-14	1								
2014	17-May-14	2								
2014	17-May-14	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	17-May-14	4								
2014	17-May-14	5								
2014	17-May-14	6								
2014	17-May-14	7								
2014	17-May-14	8								
2014	17-May-14	9			0.058					
2014	17-May-14	10			0.079					
2014	17-May-14	11			0.078					
2014	17-May-14	12			0.067					
2014	17-May-14	13			0.068					
2014	17-May-14	14			0.056					
2014	17-May-14	15			0.05					
2014	17-May-14	16			0.05					
2014	17-May-14	17			0.05					
2014	17-May-14	18			0.05					
2014	17-May-14	19			0.049					
2014	17-May-14	20			0.049					
2014	17-May-14	21			0.049					
2014	17-May-14	22			0.049					
2014	17-May-14	23			0.049					
2014	18-May-14	0			0.049					
2014	18-May-14	1			0.049					
2014	18-May-14	2			0.049					
2014	18-May-14	3			0.049					
2014	18-May-14	4			0.049					
2014	18-May-14	5			0.05					
2014	18-May-14	6			0.05					
2014	18-May-14	7			0.05					
2014	18-May-14	8	0		0.05					
2014	18-May-14	9	0		0.05					
2014	18-May-14	10	0		0.05					
2014	18-May-14	11	0		0.05					
2014	18-May-14	12	3.7		0.05					
2014	18-May-14	13	2.8		0.05					
2014	18-May-14	14	0		0.038					
2014	18-May-14	15	0		0.046					
2014	18-May-14	16	0		0.05					
2014	18-May-14	17	0		0.05					
2014	18-May-14	18	13.6		0.05					
2014	18-May-14	19	35.6		0.05					
2014	18-May-14	20	100.3		0.049					
2014	18-May-14	21	242		0.049					
2014	18-May-14	22	314.7		0.049					
2014	18-May-14	23	488.9		0.049					



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	19-May-14	0	780.5		0.049					
2014	19-May-14	1	628.5		0.05					
2014	19-May-14	2	725.3		0.05					
2014	19-May-14	3	690.1		0.05					
2014	19-May-14	4	1129.4		0.05					
2014	19-May-14	5	994.3		0.05					
2014	19-May-14	6	707		0.044					
2014	19-May-14	7	601.4							
2014	19-May-14	8	632.7							
2014	19-May-14	9	427.8							
2014	19-May-14	10	395.5							
2014	19-May-14	11	434.7							
2014	19-May-14	12	607.5							
2014	19-May-14	13	833.6							
2014	19-May-14	14	982.5							
2014	19-May-14	15	915.2							
2014	19-May-14	16	806.9							
2014	19-May-14	17	1180.7							
2014	19-May-14	18	1188.5							
2014	19-May-14	19	809.6							
2014	19-May-14	20	817.1							
2014	19-May-14	21	814.6							
2014	19-May-14	22	847.4							
2014	19-May-14	23	1004.8							
2014	20-May-14	0	971							
2014	20-May-14	1	823.2							
2014	20-May-14	2	533.2							
2014	20-May-14	3	609.5							
2014	20-May-14	4	1307.3							
2014	20-May-14	5	1681.5							
2014	20-May-14	6	874.3							
2014	20-May-14	7	822.3							
2014	20-May-14	8	943.7							
2014	20-May-14	9	975.9							
2014	20-May-14	10	933.7							
2014	20-May-14	11	1027.9							
2014	20-May-14	12	1008.6							
2014	20-May-14	13	1005.4							
2014	20-May-14	14	996.9							
2014	20-May-14	15	985.8							
2014	20-May-14	16	1004.9							
2014	20-May-14	17	1026.6							
2014	20-May-14	18	1021.7							
2014	20-May-14	19	1004.9							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	20-May-14	20	871.9							
2014	20-May-14	21	965.4							
2014	20-May-14	22	843.4							
2014	20-May-14	23	650							
2014	21-May-14	0	359							
2014	21-May-14	1	242.4							
2014	21-May-14	2	248.5							
2014	21-May-14	3	303.9							
2014	21-May-14	4	802.5							
2014	21-May-14	5	1331.2							
2014	21-May-14	6	1240.8							
2014	21-May-14	7	1004.3							
2014	21-May-14	8	842.5							
2014	21-May-14	9	635.6							
2014	21-May-14	10	847.7							
2014	21-May-14	11	1116.5							
2014	21-May-14	12	1087.1							
2014	21-May-14	13	966.4							
2014	21-May-14	14	1061.4							
2014	21-May-14	15	1025.6							
2014	21-May-14	16	1044.9							
2014	21-May-14	17	1064.1							
2014	21-May-14	18	955.4							
2014	21-May-14	19	689							
2014	21-May-14	20	898							
2014	21-May-14	21	1003.1							
2014	21-May-14	22	851.2							
2014	21-May-14	23	525.3							
2014	22-May-14	0	348.4							
2014	22-May-14	1	284.6							
2014	22-May-14	2	549.5							
2014	22-May-14	3	927.5							
2014	22-May-14	4	1181.4							
2014	22-May-14	5	1046.7							
2014	22-May-14	6	1081.3							
2014	22-May-14	7	1008.2							
2014	22-May-14	8	848.8							
2014	22-May-14	9	755.3							
2014	22-May-14	10	827.3							
2014	22-May-14	11	947.5							
2014	22-May-14	12	949.5							
2014	22-May-14	13	953.7							
2014	22-May-14	14	968.1							
2014	22-May-14	15	997.4							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	22-May-14	16	1002.2							
2014	22-May-14	17	1015.3							
2014	22-May-14	18	1000.4							
2014	22-May-14	19	1027.2							
2014	22-May-14	20	1013.7							
2014	22-May-14	21	1005.5							
2014	22-May-14	22	992.3							
2014	22-May-14	23	837.1							
2014	23-May-14	0	461							
2014	23-May-14	1	259.4							
2014	23-May-14	2	199.7							
2014	23-May-14	3	120.1							
2014	23-May-14	4	116.8							
2014	23-May-14	5	297.2							
2014	23-May-14	6	599.9							
2014	23-May-14	7	843							
2014	23-May-14	8	875.9							
2014	23-May-14	9	728.6							
2014	23-May-14	10	656.9							
2014	23-May-14	11	548.4							
2014	23-May-14	12	562.1							
2014	23-May-14	13	616.3							
2014	23-May-14	14	1144.4							
2014	23-May-14	15	1550.1							
2014	23-May-14	16	1656.9							
2014	23-May-14	17	1643.8							
2014	23-May-14	18	1668.2							
2014	23-May-14	19	1663.7							
2014	23-May-14	20	1671.7							
2014	23-May-14	21	1606.6							
2014	23-May-14	22	1691.7							
2014	23-May-14	23	1746.7							
2014	24-May-14	0	1530.6							
2014	24-May-14	1	1087.5							
2014	24-May-14	2	850.8							
2014	24-May-14	3	530.4							
2014	24-May-14	4	392.8							
2014	24-May-14	5	856.7							
2014	24-May-14	6	1306.7							
2014	24-May-14	7	742.1							
2014	24-May-14	8	632.7							
2014	24-May-14	9	844.1							
2014	24-May-14	10	751.8							
2014	24-May-14	11	491.2							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	24-May-14	12	444.4							
2014	24-May-14	13	451.9							
2014	24-May-14	14	370.6							
2014	24-May-14	15	365.7							
2014	24-May-14	16	404.2							
2014	24-May-14	17	405.5							
2014	24-May-14	18	309.6							
2014	24-May-14	19	231.6							
2014	24-May-14	20	175.7							
2014	24-May-14	21	188.7							
2014	24-May-14	22	191							
2014	24-May-14	23	195.5							
2014	25-May-14	0	202.5							
2014	25-May-14	1	195.6							
2014	25-May-14	2	160.2							
2014	25-May-14	3	110.8	0.825						
2014	25-May-14	4	177.1	0						
2014	25-May-14	5	232.7	0						
2014	25-May-14	6	212.2	0						
2014	25-May-14	7	226.4	5.3						
2014	25-May-14	8	208.7	1.1						
2014	25-May-14	9	204.4	0						
2014	25-May-14	10	215.9	0						
2014	25-May-14	11	313.8	0						
2014	25-May-14	12	494.5	0						
2014	25-May-14	13	643.3	0						
2014	25-May-14	14	807.9	0	0.034					
2014	25-May-14	15	1086.2	0	0.067					
2014	25-May-14	16	1442	0	0.067					
2014	25-May-14	17	1104.5	0	0.067					0.375
2014	25-May-14	18	897.9	0	0.067					1.5
2014	25-May-14	19	625.4	0	0.067					0.7
2014	25-May-14	20	384.8	0	0.067					0.5
2014	25-May-14	21	291.6	0	0.067					0.5
2014	25-May-14	22	229.2	28.6	0.067					0.8
2014	25-May-14	23	207.2	63.3	0.066					0.8
2014	26-May-14	0	204.1	120.7	0.066					0.7
2014	26-May-14	1	201.8	156.8	0.066					0.8
2014	26-May-14	2	210.2	231	0.066					1.9
2014	26-May-14	3	197.2	356.4	0.066					0.6
2014	26-May-14	4	201.5	584.3	0.066					0.6
2014	26-May-14	5	194.8	472.8	0.067					0.6
2014	26-May-14	6	207.8	208.2	0.067					1.9
2014	26-May-14	7	207.9	350.6	0.058					16.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	26-May-14	8	203.2	324.9	0.053					168
2014	26-May-14	9	201.5	318.4	0.053					431.8
2014	26-May-14	10	190.7	322.5	0.053					475.3
2014	26-May-14	11	196.4	293.5	0.052					578.4
2014	26-May-14	12	200.4	266.6	0.052					521.9
2014	26-May-14	13	223.4	320.3	0.053					579.7
2014	26-May-14	14	534.6	549.6	0.053					717.6
2014	26-May-14	15	1101.4	703.9	0.053					713.2
2014	26-May-14	16	1367.5	710.6	0.052					706.8
2014	26-May-14	17	1480.3	798.9	0.053					681
2014	26-May-14	18	1472.6	836.5	0.053					650.2
2014	26-May-14	19	1240.9	737.8	0.052					635.9
2014	26-May-14	20	1323	744.4	0.052					664.5
2014	26-May-14	21	778.3	434.6	0.053					619.9
2014	26-May-14	22	385.2	298.7	0.053					565.6
2014	26-May-14	23	262.6	209.2	0.052					491.9
2014	27-May-14	0	144.6	175.9	0.052					391.3
2014	27-May-14	1	120.9	167.6	0.052					396.3
2014	27-May-14	2	119.7	145.5	0.065					395.2
2014	27-May-14	3	112.6	119.8	0.075					400.5
2014	27-May-14	4	113.3	145.1	0.076					392.7
2014	27-May-14	5	113.2	128.1	0.089					396.2
2014	27-May-14	6	137.3	128.5	0.15					397.6
2014	27-May-14	7	158.7	99.8	0.237					398.1
2014	27-May-14	8	124.6	49.8	0.29					461.3
2014	27-May-14	9	182.4	78.6	0.503					659.6
2014	27-May-14	10	287.9	156.5	0.722					756.1
2014	27-May-14	11	394.9	186.5	0.776					672.9
2014	27-May-14	12	588	515.4	0.657					697.4
2014	27-May-14	13	1034.2	1099.7	0.547					696.2
2014	27-May-14	14	1103.6	1272.6	0.767					707.9
2014	27-May-14	15	1181.3	1099.5	0.876					705.2
2014	27-May-14	16	1159.2	1214.8	0.877					696.8
2014	27-May-14	17	1001.4	1069.8	0.878					662.5
2014	27-May-14	18	755.1	846.9	0.88					643.6
2014	27-May-14	19	436.6	430.1	0.779					580.3
2014	27-May-14	20	339.8	385.4	0.684					581.8
2014	27-May-14	21	248.4	233.2	0.366					496.1
2014	27-May-14	22	130.1	149.9	0.034					385.6
2014	27-May-14	23	61.8	95	0.034					389.9
2014	28-May-14	0	56.1	58.8	0.035					392.7
2014	28-May-14	1	47	37.3	0.06					446.2
2014	28-May-14	2	48.8	45.3	0.064					394.5
2014	28-May-14	3	45.1	37.8	0.064					395.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	28-May-14	4	40.6	39	0.064					395.7
2014	28-May-14	5	41.5	44	0.064					397.3
2014	28-May-14	6	49.4	37.5	0.113					398.3
2014	28-May-14	7	44.1	51.3	0.235					425.4
2014	28-May-14	8	53.5	55.1	0.295					417.1
2014	28-May-14	9	58.6	72.1	0.324					428.5
2014	28-May-14	10	61.3	89.7	0.448					490.7
2014	28-May-14	11	82.7	178.6	0.55					583.1
2014	28-May-14	12	93.6	280.4	0.799					728.8
2014	28-May-14	13	169.4	432.3	0.86					713.1
2014	28-May-14	14	453.6	442.4	0.872					701.4
2014	28-May-14	15	495.8	495.3	0.872					720.1
2014	28-May-14	16	640	458.9	0.872					707.4
2014	28-May-14	17	747.6	632.5	0.873					704
2014	28-May-14	18	715.3	696.9	0.714					702.5
2014	28-May-14	19	504.2	556.9	0.189					655.6
2014	28-May-14	20	339.3	413.9	0.034					615.9
2014	28-May-14	21	192.4	240.7	0.034					607.5
2014	28-May-14	22	127.9	150.9	0.034					565.7
2014	28-May-14	23	90.4	59.9	0.034					434.1
2014	29-May-14	0	65.1	68.8	0.033					381.8
2014	29-May-14	1	72.4	65.9	0.033					379.8
2014	29-May-14	2	76	58.9	0.034					377.8
2014	29-May-14	3	73.3	64.3	0.034					372.6
2014	29-May-14	4	72.9	66.4	0.034					378.9
2014	29-May-14	5	176.5	122.8	0.045					517.7
2014	29-May-14	6	315.2	222.4	0.05					631
2014	29-May-14	7	300.8	344.5	0.05					507.2
2014	29-May-14	8	289.3	349.9	0.05					388.8
2014	29-May-14	9	270	331.6	0.037					386.3
2014	29-May-14	10	210.1	263.5	0.036					385.9
2014	29-May-14	11	141.6	180.1	0.036					387.4
2014	29-May-14	12	130.1	192.9	0.04					399.3
2014	29-May-14	13	113.7	171	0.051					388.9
2014	29-May-14	14	105.6	161.4	0.051					392.1
2014	29-May-14	15	116.9	121.9	0.034					393.6
2014	29-May-14	16	149.8	127.3						419.4
2014	29-May-14	17	115.3	147.2						433.8
2014	29-May-14	18	66.9	119.8						399.9
2014	29-May-14	19	52.7	99.2						397.1
2014	29-May-14	20	105.3	65.7						395.3
2014	29-May-14	21	153.9	53.568						389.1
2014	29-May-14	22	160.6							388.3
2014	29-May-14	23	156.7	0						387.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	30-May-14	0	153.5	0						387.4
2014	30-May-14	1	146.2	0						395.5
2014	30-May-14	2	144.2	0						392.6
2014	30-May-14	3	102.8	8.7						500.4
2014	30-May-14	4	13.59	9						672.4
2014	30-May-14	5		11.9						764.4
2014	30-May-14	6		10						706.5
2014	30-May-14	7		20.2						605.9
2014	30-May-14	8		16.2						541.9
2014	30-May-14	9		29.1						509.9
2014	30-May-14	10		33.2						517
2014	30-May-14	11		52.6						580
2014	30-May-14	12		63.2						525.4
2014	30-May-14	13		64.4						529.4
2014	30-May-14	14		70						549.1
2014	30-May-14	15		89.3						545.9
2014	30-May-14	16		101						558.1
2014	30-May-14	17		131.3						507.4
2014	30-May-14	18		100.8						400.9
2014	30-May-14	19		69.7						406
2014	30-May-14	20		52.8						403.2
2014	30-May-14	21		54.2						406.7
2014	30-May-14	22		54.6		0				405.7
2014	30-May-14	23		55.8		0				403.1
2014	31-May-14	0		54.5		0				401.7
2014	31-May-14	1		53.2		0				396
2014	31-May-14	2		53		0				400.5
2014	31-May-14	3		52.5		0				398.2
2014	31-May-14	4		55.1		0				394.5
2014	31-May-14	5		60.2		0				399
2014	31-May-14	6		52.1		0				618.8
2014	31-May-14	7		65.2		0				561.7
2014	31-May-14	8		56.1		0				620.5
2014	31-May-14	9		54.6		0				491.2
2014	31-May-14	10		55.6		0				495.8
2014	31-May-14	11		53.9		0				521.5
2014	31-May-14	12		55.3		0				435
2014	31-May-14	13		63.2		0				527.3
2014	31-May-14	14		59.7		0				562.6
2014	31-May-14	15		53.5		0				634.9
2014	31-May-14	16		97.6						692.7
2014	31-May-14	17		138.4						577.4
2014	31-May-14	18		123.7						441.1
2014	31-May-14	19		109.6						432.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	31-May-14	20		90						432.5
2014	31-May-14	21		66.3						428.3
2014	31-May-14	22		61.4						432.6
2014	31-May-14	23		59.8						426.5
2014	1-Jun-14	0		55.4						424.2
2014	1-Jun-14	1		54.2						425.2
2014	1-Jun-14	2		60.8						424.6
2014	1-Jun-14	3		67.8		0				425.8
2014	1-Jun-14	4		64.4		0				425.6
2014	1-Jun-14	5		68.9		0				428.4
2014	1-Jun-14	6		60.2		0				431.3
2014	1-Jun-14	7		73		0				430.7
2014	1-Jun-14	8		64.9		0				429.8
2014	1-Jun-14	9		73		0				432.5
2014	1-Jun-14	10		90.4		0				429.6
2014	1-Jun-14	11		112.9		0				432.3
2014	1-Jun-14	12		131.9		0				430.5
2014	1-Jun-14	13		140.4		0				427.1
2014	1-Jun-14	14		264.1		0				535
2014	1-Jun-14	15		301		0				727.6
2014	1-Jun-14	16		376.9		0				742
2014	1-Jun-14	17		555.1		0				708.1
2014	1-Jun-14	18		717.3		0				644.2
2014	1-Jun-14	19		419.4		0				527.9
2014	1-Jun-14	20		224		0				504
2014	1-Jun-14	21		194.1		0				429.1
2014	1-Jun-14	22		232.3		95.9				425.1
2014	1-Jun-14	23		254.2		367.3				421.5
2014	2-Jun-14	0		173.4		658				424.8
2014	2-Jun-14	1		168.7		0				424
2014	2-Jun-14	2		163.3	0.045	0				422.3
2014	2-Jun-14	3		145.1	0.047	0				423.1
2014	2-Jun-14	4		167.3	0.061	130.8				426.4
2014	2-Jun-14	5		167.7	0.064	603.6				417.4
2014	2-Jun-14	6		164.8	0.074	570.9				424.6
2014	2-Jun-14	7		182.3	0.084	691.2				428.5
2014	2-Jun-14	8		168.1	0.084	710.9				426
2014	2-Jun-14	9		161.9	0.135	881				421
2014	2-Jun-14	10		161.7	0.191	1011.1				423.5
2014	2-Jun-14	11		154.3	0.225	1185.2				421.1
2014	2-Jun-14	12		158.8	0.221					415.8
2014	2-Jun-14	13		183.3	0.251					475.8
2014	2-Jun-14	14		270.1	0.339					625.9
2014	2-Jun-14	15		409.8	0.482					682.3



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	2-Jun-14	16		698.1	0.658					745.3
2014	2-Jun-14	17		873	0.51					701.7
2014	2-Jun-14	18		652.7	0.248					584.6
2014	2-Jun-14	19		423.8	0.219					465
2014	2-Jun-14	20		384.7	0.007					430.2
2014	2-Jun-14	21		253.4						409.9
2014	2-Jun-14	22		184						412.6
2014	2-Jun-14	23		177.8						415.4
2014	3-Jun-14	0		180.1						417.5
2014	3-Jun-14	1		194						419.6
2014	3-Jun-14	2		187.4						419.4
2014	3-Jun-14	3		184.9						418.6
2014	3-Jun-14	4		189.1						420.3
2014	3-Jun-14	5		180.4	0.034					422.1
2014	3-Jun-14	6		175.4	0.064					413.4
2014	3-Jun-14	7		182.6	0.064					417.1
2014	3-Jun-14	8		170	0.12					418
2014	3-Jun-14	9		177.7	0.204					416.5
2014	3-Jun-14	10		187.6	0.227					415.3
2014	3-Jun-14	11		277.5	0.261					570.9
2014	3-Jun-14	12		425.3	0.329					649.8
2014	3-Jun-14	13		671.3	0.414					718.9
2014	3-Jun-14	14		957.7	0.515					780.6
2014	3-Jun-14	15		1350.3	0.767					764.1
2014	3-Jun-14	16		1770.2	0.811					754.9
2014	3-Jun-14	17		1714.3	0.679					709.2
2014	3-Jun-14	18		1369.9	0.118					674.6
2014	3-Jun-14	19		924.8						636.2
2014	3-Jun-14	20		482.8						555.4
2014	3-Jun-14	21		321.9						447
2014	3-Jun-14	22		214.1						455.6
2014	3-Jun-14	23		171.6						430.5
2014	4-Jun-14	0		137.1						435.6
2014	4-Jun-14	1		178.6						449.7
2014	4-Jun-14	2		157.6						442.1
2014	4-Jun-14	3		183.1						438.6
2014	4-Jun-14	4		174.4						417.2
2014	4-Jun-14	5		175.3	0.032					429.1
2014	4-Jun-14	6		177.4	0.077					420.9
2014	4-Jun-14	7		187.3	0.081					416.7
2014	4-Jun-14	8		187.4	0.11					421.9
2014	4-Jun-14	9		215.6	0.227					422
2014	4-Jun-14	10		215.3	0.225					417.3
2014	4-Jun-14	11		277.2	0.247					486.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	4-Jun-14	12		408.3	0.278					574
2014	4-Jun-14	13		639.1	0.455					604.6
2014	4-Jun-14	14		827.1	0.543					594.9
2014	4-Jun-14	15		1157.4	0.55					584.4
2014	4-Jun-14	16		947.8	0.548					429.1
2014	4-Jun-14	17		854.9	0.52					436.9
2014	4-Jun-14	18		525.1	0.074					430.4
2014	4-Jun-14	19		516.8						441.9
2014	4-Jun-14	20		370.4						423
2014	4-Jun-14	21		243.5						432.1
2014	4-Jun-14	22		213.1						698.5
2014	4-Jun-14	23		223.4						391.3
2014	5-Jun-14	0		223.7						13.515
2014	5-Jun-14	1		233.9						
2014	5-Jun-14	2		230.2						
2014	5-Jun-14	3		222.4						
2014	5-Jun-14	4		219.7						
2014	5-Jun-14	5		220.3						
2014	5-Jun-14	6		219.2						
2014	5-Jun-14	7		212.7						
2014	5-Jun-14	8		198.6						
2014	5-Jun-14	9		205						
2014	5-Jun-14	10		211						
2014	5-Jun-14	11		219.5						
2014	5-Jun-14	12		206.8						
2014	5-Jun-14	13		197.3						
2014	5-Jun-14	14		307						
2014	5-Jun-14	15		691.4						
2014	5-Jun-14	16		1209.8						
2014	5-Jun-14	17		1413.1						
2014	5-Jun-14	18		1259.8						
2014	5-Jun-14	19		1149.8						
2014	5-Jun-14	20		946.9						
2014	5-Jun-14	21		683.8						
2014	5-Jun-14	22		410.2						
2014	5-Jun-14	23		277.9						
2014	6-Jun-14	0		180.5						
2014	6-Jun-14	1		166.6						
2014	6-Jun-14	2		161.5						
2014	6-Jun-14	3		163.9						
2014	6-Jun-14	4		153.8						
2014	6-Jun-14	5		168.3						
2014	6-Jun-14	6		154.4						
2014	6-Jun-14	7		166.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	6-Jun-14	8		148.5						
2014	6-Jun-14	9		165						
2014	6-Jun-14	10		130.3						
2014	6-Jun-14	11		151.4						
2014	6-Jun-14	12		137.4						
2014	6-Jun-14	13		217.2						
2014	6-Jun-14	14		564.5						
2014	6-Jun-14	15		982.7						
2014	6-Jun-14	16		1159.7						
2014	6-Jun-14	17		1176.9						
2014	6-Jun-14	18		1160.7						
2014	6-Jun-14	19		937.4						
2014	6-Jun-14	20		759.6						
2014	6-Jun-14	21		516.1						
2014	6-Jun-14	22		376.7						
2014	6-Jun-14	23		235.2						
2014	7-Jun-14	0		151.9						
2014	7-Jun-14	1		151.2						
2014	7-Jun-14	2		155.1						
2014	7-Jun-14	3		152.4						
2014	7-Jun-14	4		163						
2014	7-Jun-14	5		149.8						
2014	7-Jun-14	6		153.3						
2014	7-Jun-14	7		155.1						
2014	7-Jun-14	8		134.2						
2014	7-Jun-14	9		138.9						
2014	7-Jun-14	10		159.9						
2014	7-Jun-14	11		196						
2014	7-Jun-14	12		171.1						
2014	7-Jun-14	13		162.3						
2014	7-Jun-14	14		205.4						
2014	7-Jun-14	15		244.7						
2014	7-Jun-14	16		383.3						
2014	7-Jun-14	17		502.4						
2014	7-Jun-14	18		623.7						
2014	7-Jun-14	19		558.9						
2014	7-Jun-14	20		590.8						
2014	7-Jun-14	21		491.9						
2014	7-Jun-14	22		407.5						
2014	7-Jun-14	23		286.3						
2014	8-Jun-14	0		224.7						
2014	8-Jun-14	1		208.6						
2014	8-Jun-14	2		205.4						
2014	8-Jun-14	3		193						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	8-Jun-14	4		193.4						
2014	8-Jun-14	5		187.8						
2014	8-Jun-14	6		177.4						
2014	8-Jun-14	7		212.1						
2014	8-Jun-14	8		228.7						
2014	8-Jun-14	9		249.3						
2014	8-Jun-14	10		245.4						
2014	8-Jun-14	11		250.5						
2014	8-Jun-14	12		167						
2014	8-Jun-14	13		172.3						
2014	8-Jun-14	14		154.3						
2014	8-Jun-14	15		164.6						
2014	8-Jun-14	16		168.6						
2014	8-Jun-14	17		160						
2014	8-Jun-14	18		211.1						
2014	8-Jun-14	19		637.8						
2014	8-Jun-14	20		403.9						
2014	8-Jun-14	21		601.1						
2014	8-Jun-14	22		395.7						
2014	8-Jun-14	23		309.2						
2014	9-Jun-14	0		242.9						
2014	9-Jun-14	1		170.1						
2014	9-Jun-14	2		160.9						
2014	9-Jun-14	3		161						
2014	9-Jun-14	4		358.2						
2014	9-Jun-14	5		740.9						
2014	9-Jun-14	6		636.7						
2014	9-Jun-14	7		461.6						
2014	9-Jun-14	8		465.9						
2014	9-Jun-14	9		646						
2014	9-Jun-14	10		862.1						
2014	9-Jun-14	11		964						
2014	9-Jun-14	12		1015.1						
2014	9-Jun-14	13		889.6						
2014	9-Jun-14	14		893.3						
2014	9-Jun-14	15		1001.5						
2014	9-Jun-14	16		1011.8						
2014	9-Jun-14	17		963.9						
2014	9-Jun-14	18		812.6						
2014	9-Jun-14	19		734.4						
2014	9-Jun-14	20		789.2						
2014	9-Jun-14	21		640.1						
2014	9-Jun-14	22		545.5						
2014	9-Jun-14	23		491.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	10-Jun-14	0		508.2						
2014	10-Jun-14	1		424.7						
2014	10-Jun-14	2		320.3						
2014	10-Jun-14	3		282.1						
2014	10-Jun-14	4		249.5						
2014	10-Jun-14	5		272.5						
2014	10-Jun-14	6		250.2						
2014	10-Jun-14	7		219.4						
2014	10-Jun-14	8		197.5						
2014	10-Jun-14	9		157						
2014	10-Jun-14	10		121.6						
2014	10-Jun-14	11		140.3						0
2014	10-Jun-14	12		232.1						0.2
2014	10-Jun-14	13		305.6						1.7
2014	10-Jun-14	14		497.7						0.7
2014	10-Jun-14	15		820.5						0.6
2014	10-Jun-14	16		889.2						0.7
2014	10-Jun-14	17		921.5						0.6
2014	10-Jun-14	18		864.5						0.5
2014	10-Jun-14	19		830.5						0.5
2014	10-Jun-14	20		858						4
2014	10-Jun-14	21		595.3						48.8
2014	10-Jun-14	22		394.2						116.9
2014	10-Jun-14	23		290						224.7
2014	11-Jun-14	0		179.8						327.6
2014	11-Jun-14	1		135.2		0				398.3
2014	11-Jun-14	2		129.8		0				430.9
2014	11-Jun-14	3		126.4		0				450.7
2014	11-Jun-14	4		117.4		0				453.8
2014	11-Jun-14	5		103.8		0				454.9
2014	11-Jun-14	6		104.9		0				445.6
2014	11-Jun-14	7		113.2		23				443.1
2014	11-Jun-14	8		126.5		262				436.7
2014	11-Jun-14	9		172		593				437.3
2014	11-Jun-14	10		308.3		855				481.8
2014	11-Jun-14	11		424.4		839				452.6
2014	11-Jun-14	12		671.8		967				530.7
2014	11-Jun-14	13		1057.1		1567.7				628.8
2014	11-Jun-14	14		1199.5		1848.3				751.9
2014	11-Jun-14	15		1201.7		2014.7				743.2
2014	11-Jun-14	16		1209.7		2074.5				733.3
2014	11-Jun-14	17		990.3		1851.6				688.1
2014	11-Jun-14	18		908.6		1178.1				635.3
2014	11-Jun-14	19		1009		1464				708.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	11-Jun-14	20		661.1		977.2				619.3
2014	11-Jun-14	21		461		870.1				489.5
2014	11-Jun-14	22		310.7		785.6				423.8
2014	11-Jun-14	23		205.2		797				423.6
2014	12-Jun-14	0		184.8		805.5				428.6
2014	12-Jun-14	1		348.7		810.4				433.3
2014	12-Jun-14	2		359.6		818				452.2
2014	12-Jun-14	3		390.9		843.1				474.5
2014	12-Jun-14	4		887.5		1783.6				723.6
2014	12-Jun-14	5		1191.8		2085.3				736.3
2014	12-Jun-14	6		1185.5		2103.8				731.4
2014	12-Jun-14	7		1245.6		2043.3				729.8
2014	12-Jun-14	8		1182.1		2084.6				727.3
2014	12-Jun-14	9		1456.2		2090.5				722.8
2014	12-Jun-14	10		1683.8		2088.6				717.3
2014	12-Jun-14	11		1689.4		2088.6				718
2014	12-Jun-14	12		1631		2088.7				725.1
2014	12-Jun-14	13		1307.5		1903.3				689.4
2014	12-Jun-14	14		839.9		1152.5				621.5
2014	12-Jun-14	15		635.7		877.8				553.5
2014	12-Jun-14	16		599.4		826				529.4
2014	12-Jun-14	17		571.2		824.1				499
2014	12-Jun-14	18		347.2		807.3				413.3
2014	12-Jun-14	19		263.4		791.1				414.6
2014	12-Jun-14	20		190.2		790.2				416.8
2014	12-Jun-14	21		143		783.7				412.4
2014	12-Jun-14	22		147.1		784.3				414.1
2014	12-Jun-14	23		148.7		783.3				413.2
2014	13-Jun-14	0		126.1		780.7				411.1
2014	13-Jun-14	1		142.4		779.1				411.6
2014	13-Jun-14	2		140		774.9				407.2
2014	13-Jun-14	3		116.3		777.8				405
2014	13-Jun-14	4		123.8		779.7				402.3
2014	13-Jun-14	5		115.4		774.4				403
2014	13-Jun-14	6		117.6		789.8				405
2014	13-Jun-14	7		137.9		767.9				401.2
2014	13-Jun-14	8		133.7		775.5				393.9
2014	13-Jun-14	9		156.3		843.2				420.6
2014	13-Jun-14	10		137.8		775.5				406.3
2014	13-Jun-14	11		165.7		906.3				503.4
2014	13-Jun-14	12		176		971.5				427.3
2014	13-Jun-14	13		132.8		923				498.9
2014	13-Jun-14	14		217.5		1004.6				638.3
2014	13-Jun-14	15		307		1217.9				695.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	13-Jun-14	16		330.4		1506.9				731.2
2014	13-Jun-14	17		339.3		1278				661.3
2014	13-Jun-14	18		293.9		1309				605.2
2014	13-Jun-14	19		218.6		1031				506
2014	13-Jun-14	20		163.8		833.2				402.7
2014	13-Jun-14	21		78.4		780.6				392.9
2014	13-Jun-14	22		58.1		770.5				392.5
2014	13-Jun-14	23		58.6		87.5				388.7
2014	14-Jun-14	0		59.7						389.3
2014	14-Jun-14	1		148.7						388.2
2014	14-Jun-14	2		127.2						382.7
2014	14-Jun-14	3		91.2						392
2014	14-Jun-14	4		155.4						388.8
2014	14-Jun-14	5		440.2						391.7
2014	14-Jun-14	6		567.8						388.5
2014	14-Jun-14	7		577.8						382.7
2014	14-Jun-14	8		393.7						386.4
2014	14-Jun-14	9	0	265.2						426.3
2014	14-Jun-14	10	0	206.7						545.2
2014	14-Jun-14	11	0	144.9						562.8
2014	14-Jun-14	12	1.6	390.5						650.2
2014	14-Jun-14	13	0	818.1						743.9
2014	14-Jun-14	14	0	823						741.7
2014	14-Jun-14	15	0	793.1						725.9
2014	14-Jun-14	16	0	805.9						723.9
2014	14-Jun-14	17	0	834.5						717.5
2014	14-Jun-14	18	0	821.2						718.5
2014	14-Jun-14	19	0	656.6						687.9
2014	14-Jun-14	20	0	492.3						713
2014	14-Jun-14	21	0	374.4						707.2
2014	14-Jun-14	22	0	211.3						661.4
2014	14-Jun-14	23	0	149.2						562.5
2014	15-Jun-14	0	0	80.7						486.5
2014	15-Jun-14	1	0	55.9						402.4
2014	15-Jun-14	2	0	49.9						390.4
2014	15-Jun-14	3	0	49.4						390.3
2014	15-Jun-14	4	0	49.2						390.7
2014	15-Jun-14	5	0	44.3						390.6
2014	15-Jun-14	6	3	39.7						385.9
2014	15-Jun-14	7	1	44.1						385.3
2014	15-Jun-14	8	0	34.2						389.7
2014	15-Jun-14	9	0	53.4						542.8
2014	15-Jun-14	10	0	138						738.3
2014	15-Jun-14	11	0	290.6						750.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	15-Jun-14	12	0	370.5						723.2
2014	15-Jun-14	13	0	376.9						719.2
2014	15-Jun-14	14	0	313.1						717.7
2014	15-Jun-14	15	0	272.2						670.1
2014	15-Jun-14	16	0	274.5						600.6
2014	15-Jun-14	17	0	342.7						721.4
2014	15-Jun-14	18	0	369.6						710.9
2014	15-Jun-14	19	0	299.2		0				673.5
2014	15-Jun-14	20	0	254.3		0				573
2014	15-Jun-14	21	7.6	171.6		0				452.6
2014	15-Jun-14	22	21.3	105.1		0				384.7
2014	15-Jun-14	23	29.8	62.5		0				386.6
2014	16-Jun-14	0	47.2	43.2	0.039	0				387.1
2014	16-Jun-14	1	49.5	35.1	0.067	0				385.3
2014	16-Jun-14	2	36.2	31.2	0.065	0				567.4
2014	16-Jun-14	3	23.7	32.5	0.065	0				406
2014	16-Jun-14	4	31.9	56.4	0.065	0				482.5
2014	16-Jun-14	5	54.3	201.8	0.062	0				730.1
2014	16-Jun-14	6	89	312.7	0.052	0				645.3
2014	16-Jun-14	7	140.1	388.7	0.051	258.7				536.2
2014	16-Jun-14	8	279.6	764.4	0.059	322.3				415.7
2014	16-Jun-14	9	532	1036.3	0.108	874.6				533.1
2014	16-Jun-14	10	916	1330.9	0.256	1449.8				651.4
2014	16-Jun-14	11	1145.7	1551.6	0.5	1913.8				727.3
2014	16-Jun-14	12	1288.6	1028.4	0.666	2071				722.4
2014	16-Jun-14	13	1340.8	586.9	0.776	2139.7				714.7
2014	16-Jun-14	14	1304.5	665.4	0.719	2145				713.4
2014	16-Jun-14	15	1274.7	747.6	0.859	2134.6				712.4
2014	16-Jun-14	16	1452.8	782.3	0.762	2137.9				709.8
2014	16-Jun-14	17	1599.6	735.4	0.516	2124.1				705.1
2014	16-Jun-14	18	1411.1	686.1	0.525	2112.6				699.6
2014	16-Jun-14	19	1094.4	749.8	0.194	2094.1				733
2014	16-Jun-14	20	889.1	715.4		2090.8				755.2
2014	16-Jun-14	21	675.5	660.3		2079.1				676.6
2014	16-Jun-14	22	561.3	548.7		2079.6				548.6
2014	16-Jun-14	23	342.7	799		1972.7				413
2014	17-Jun-14	0	210.6	566.8		1763.9				404.7
2014	17-Jun-14	1	167.5	449.8		1061.2				405
2014	17-Jun-14	2	138	334		709.1				401
2014	17-Jun-14	3	153.9	243.4		702				402.2
2014	17-Jun-14	4	236.3	264.1		752				515.5
2014	17-Jun-14	5	721	638.4		1598.6				765.1
2014	17-Jun-14	6	1396.1	1185.9	0.015	2025.5				735.4
2014	17-Jun-14	7	1668.1	1696.1	0.069	2018.5				725.2



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	17-Jun-14	8	914.6	971.7	0.07	2059.9				767.8
2014	17-Jun-14	9	597.8	767.7	0.159	1930.2				776.3
2014	17-Jun-14	10	674.4	805.6	0.304	2113.8				867
2014	17-Jun-14	11	751.5	811.8	0.292	2165.2				943.2
2014	17-Jun-14	12	759.5	765.6	0.351	2106.8				976.3
2014	17-Jun-14	13	774.2	921	0.393	2106.9				952.6
2014	17-Jun-14	14	780	1117.4	0.526	2091.5				995.8
2014	17-Jun-14	15	1398.3	1218.9	0.806	2063				968.5
2014	17-Jun-14	16	1727.1	1172	0.865	2036.5				885.5
2014	17-Jun-14	17	1685.7	1103	0.499	2022.4				849.4
2014	17-Jun-14	18	1667.6	1088.7		2015.3				872.5
2014	17-Jun-14	19	1677	1086.7		2003.5				889.2
2014	17-Jun-14	20	1663.3	1052.3		1963.7				845.1
2014	17-Jun-14	21	1690.7	1037.9		1982				868.1
2014	17-Jun-14	22	1409.9	903.7		1810.9				800.2
2014	17-Jun-14	23	1533	606.8		1200.6				755.4
2014	18-Jun-14	0	1361.7	397.9		929.5				641.5
2014	18-Jun-14	1	1035.8	334.2		812.4				566.3
2014	18-Jun-14	2	919.4	502.9		820.6				477.8
2014	18-Jun-14	3	691.6	1135		817.2				497.8
2014	18-Jun-14	4	525.9	1201.9		817.2				488.3
2014	18-Jun-14	5	415.5	1173.4		823.4				500.3
2014	18-Jun-14	6	346.7	1200.9		895.3				535.5
2014	18-Jun-14	7	263.3	1167.7		831.9				508.6
2014	18-Jun-14	8	213.7	1258.2		922.1				498.6
2014	18-Jun-14	9	222.9	1046.4		957.1				482.6
2014	18-Jun-14	10	266	1146.5		1001.5				467.6
2014	18-Jun-14	11	264.2	1363.5		1037.1				555.7
2014	18-Jun-14	12	464.6	1196.6		1719.3				893.2
2014	18-Jun-14	13	1143	1029.4		2113.4				959.4
2014	18-Jun-14	14	1727.9	1002.3		2113.6				964.2
2014	18-Jun-14	15	756.8	994.1		2123.7				951.1
2014	18-Jun-14	16	826.3	940.9		2124.5				876.9
2014	18-Jun-14	17	884.7	883.5		2127				948.5
2014	18-Jun-14	18	798.1	817.5		2135.9				944.7
2014	18-Jun-14	19	671.6	701.3		2134.1				930.1
2014	18-Jun-14	20	736.3	550.9		2075.2				840.2
2014	18-Jun-14	21	637.8	372.1		1569.3				758.3
2014	18-Jun-14	22	541.7	340.7		1036.7				576.3
2014	18-Jun-14	23	462.8	437.2		856.2				609.1
2014	19-Jun-14	0	436.8	424.4		854.5				556
2014	19-Jun-14	1	445.1	344		854.4				544.3
2014	19-Jun-14	2	381.4	299		850.3				565.5
2014	19-Jun-14	3	277.3	287.2		851.4				563.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	19-Jun-14	4	243	268		852.2				552.2
2014	19-Jun-14	5	262	251.7		845.8				541.7
2014	19-Jun-14	6	601.6	593.6		857.6				560.2
2014	19-Jun-14	7	647	598.6		1002.8				577.2
2014	19-Jun-14	8	575.7	566.6		893.4				544.8
2014	19-Jun-14	9	460.3	540.8		890.8				556.2
2014	19-Jun-14	10	341.9	427.1		891.8				556
2014	19-Jun-14	11	278.4	305.3		928.9				620.5
2014	19-Jun-14	12	381.2	392		1515.8				878.1
2014	19-Jun-14	13	998.6	544		2182				1022.8
2014	19-Jun-14	14	1268.7	934.6		2196.3				1006.3
2014	19-Jun-14	15	799.3	1004.2		2149.4				983.3
2014	19-Jun-14	16	559	759.1		1823				881.2
2014	19-Jun-14	17	472.1	588.7		1658.9				787.3
2014	19-Jun-14	18	426.5	406.4		1391.9				670
2014	19-Jun-14	19	334.6	497.4		1080.8				569.9
2014	19-Jun-14	20	316.9	604.6		933.6				580.6
2014	19-Jun-14	21	333.2	701.2		835				581.8
2014	19-Jun-14	22	597.7	585.5		839.8				581.3
2014	19-Jun-14	23	463.9	510.4		832.5				588.7
2014	20-Jun-14	0	482.8	490.7		824.7				585.3
2014	20-Jun-14	1	484.6	458.2		810.1				586.1
2014	20-Jun-14	2	497.1	445.8		807				587.3
2014	20-Jun-14	3	485.9	459.4		795				593.8
2014	20-Jun-14	4	781.3	574.3		965.5				687.7
2014	20-Jun-14	5	1521.5	726.4		1872.2				991.4
2014	20-Jun-14	6	1539.8	830.9		2017.6				977.4
2014	20-Jun-14	7	1208.6	1288.2		2018.1				945.2
2014	20-Jun-14	8	941.2	1629.3		2072.6				951.5
2014	20-Jun-14	9	1007.4	1716.5		2056.4				962.5
2014	20-Jun-14	10	981.9	1023.5		1993.9				967.5
2014	20-Jun-14	11	815.1	775.3		1988.2				922.9
2014	20-Jun-14	12	886.6	693.3		2048.6				920.5
2014	20-Jun-14	13	755	823		2006.6				913.5
2014	20-Jun-14	14	802.8	960.5		1854.5				831.7
2014	20-Jun-14	15	878.9	1456		2035.3				733.3
2014	20-Jun-14	16	896.6	1703		2051.5				811.3
2014	20-Jun-14	17	820.9	656.4		1917				751.8
2014	20-Jun-14	18	627.5	449.7		1964.9				621.6
2014	20-Jun-14	19	706.2	553.2		1344.8				502.6
2014	20-Jun-14	20	752	651.4		893.1				496.9
2014	20-Jun-14	21	915.3	583.7		814				504.9
2014	20-Jun-14	22	624.7	414		794.8				491.9
2014	20-Jun-14	23	412.4	295.3		141.08				369.104

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	21-Jun-14	0	321.3	51.642						
2014	21-Jun-14	1	255							
2014	21-Jun-14	2	250.4							
2014	21-Jun-14	3	235.6							
2014	21-Jun-14	4	235.9							
2014	21-Jun-14	5	243.2							
2014	21-Jun-14	6	232.4							
2014	21-Jun-14	7	274.6							
2014	21-Jun-14	8	292.6							
2014	21-Jun-14	9	268.7							
2014	21-Jun-14	10	323.4							
2014	21-Jun-14	11	298.6							
2014	21-Jun-14	12	259.4							
2014	21-Jun-14	13	297							
2014	21-Jun-14	14	403.4							
2014	21-Jun-14	15	472.5							
2014	21-Jun-14	16	506.9							
2014	21-Jun-14	17	487.1							
2014	21-Jun-14	18	443.4							
2014	21-Jun-14	19	453.5							
2014	21-Jun-14	20	394.8							
2014	21-Jun-14	21	293.5							
2014	21-Jun-14	22	268							
2014	21-Jun-14	23	266.7							
2014	22-Jun-14	0	268.9							
2014	22-Jun-14	1	282.2							
2014	22-Jun-14	2	274.6							
2014	22-Jun-14	3	276.6							
2014	22-Jun-14	4	275.8							
2014	22-Jun-14	5	266.4							
2014	22-Jun-14	6	277.7							
2014	22-Jun-14	7	264.1							
2014	22-Jun-14	8	265							
2014	22-Jun-14	9	264.4							
2014	22-Jun-14	10	267.8							
2014	22-Jun-14	11	280.6							
2014	22-Jun-14	12	314.5							
2014	22-Jun-14	13	304.5							
2014	22-Jun-14	14	371.1	0						
2014	22-Jun-14	15	437.5	0						
2014	22-Jun-14	16	890.5	0						
2014	22-Jun-14	17	1053.8	0						
2014	22-Jun-14	18	1132.6	2.8						
2014	22-Jun-14	19	809.5	1.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	22-Jun-14	20	588.6	0						0.074
2014	22-Jun-14	21	507.9	0						1.7
2014	22-Jun-14	22	455.8	14.5						0.7
2014	22-Jun-14	23	387.8	76.4						0.7
2014	23-Jun-14	0	331.5	93.4						0.6
2014	23-Jun-14	1	318.5	190.2						0.7
2014	23-Jun-14	2	324.8	287.3						0.7
2014	23-Jun-14	3	644.5	318.4						67
2014	23-Jun-14	4	1357.7	427.7						208
2014	23-Jun-14	5	1161.2	413.3						284.6
2014	23-Jun-14	6	1318.8	466.1						490.1
2014	23-Jun-14	7	1405	603.3						551.2
2014	23-Jun-14	8	1417.8	617.4						631.2
2014	23-Jun-14	9	1431.4	706						660.4
2014	23-Jun-14	10	1411.1	1052.9						715.7
2014	23-Jun-14	11	1366.3	721.3						795.4
2014	23-Jun-14	12	1392.4	943.3						909.4
2014	23-Jun-14	13	1079.1	631.3						854.8
2014	23-Jun-14	14	1424.4	755.5						915.9
2014	23-Jun-14	15	1408.7	1083						946.9
2014	23-Jun-14	16	1386	1153.4						997.3
2014	23-Jun-14	17	1242.4	942.3						946
2014	23-Jun-14	18	796	618						801.6
2014	23-Jun-14	19	788	775.4						757.4
2014	23-Jun-14	20	844.2	1074.9		0				755.3
2014	23-Jun-14	21	572.3	621		0				693.4
2014	23-Jun-14	22	433.6	460		0				545.5
2014	23-Jun-14	23	262.7	212.9		0				542.1
2014	24-Jun-14	0	230.9	170.5		0				543.7
2014	24-Jun-14	1	214.9	163.1		0				543.2
2014	24-Jun-14	2	203.1	149.4		0				541.4
2014	24-Jun-14	3	200.2	150		0				536.8
2014	24-Jun-14	4	187.7	153		0				539.1
2014	24-Jun-14	5	193.9	168.6		0				548.7
2014	24-Jun-14	6	221.3	159.6		0				542.5
2014	24-Jun-14	7	196.2	180.3		0				535.6
2014	24-Jun-14	8	320.6	256.8		0				535.1
2014	24-Jun-14	9	281.9	290.6		0				528.4
2014	24-Jun-14	10	309.1	419.9		360.9				539.6
2014	24-Jun-14	11	334.2	424.1		847.5				638
2014	24-Jun-14	12	488.6	505.7		1271.9				779.3
2014	24-Jun-14	13	813.6	725.9		1556.8				956
2014	24-Jun-14	14	1312.2	940.9		1949.4				975
2014	24-Jun-14	15	1628.1	1415.4		2034				975.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	24-Jun-14	16	1397.3	1235.6		2031.7				973.5
2014	24-Jun-14	17	1371.7	989.1		1963.8				939.7
2014	24-Jun-14	18	1205.5	1151		1793.4				873.9
2014	24-Jun-14	19	873.1	1265.4		1718.1				860.1
2014	24-Jun-14	20	758.9	1218.2		1741.3				772.6
2014	24-Jun-14	21	784.5	720.7		1635.6				610.8
2014	24-Jun-14	22	657.5	508.2		1149.9				582.3
2014	24-Jun-14	23	484.3	371.6		824.4				580.3
2014	25-Jun-14	0	441.6	273.9		753.2				644.9
2014	25-Jun-14	1	361.2	288.6		767.6				645.9
2014	25-Jun-14	2	343.6	271.6		766.8				657.7
2014	25-Jun-14	3	341.6	261.8		774.5				647.2
2014	25-Jun-14	4	324.3	247		772.7				653.8
2014	25-Jun-14	5	252.2	233.4		781.1				607.4
2014	25-Jun-14	6	194.2	141.8		856.1				619.2
2014	25-Jun-14	7	161.4	147		779.8				587.6
2014	25-Jun-14	8	179.5	151.5		852				637.1
2014	25-Jun-14	9	206.8	190.5		901.9				694.4
2014	25-Jun-14	10	174.9	208.7		997.1				803.6
2014	25-Jun-14	11	252.9	290		1503.1				935.9
2014	25-Jun-14	12	543.3	530.6		1984.9				998
2014	25-Jun-14	13	1162.3	671.3		2010.1				964.1
2014	25-Jun-14	14	1341.1	978.7		2058.2				987.2
2014	25-Jun-14	15	1051.3	851		2052.6				980.5
2014	25-Jun-14	16	837	766.1		2038.1				971.1
2014	25-Jun-14	17	1046.1	717.3		2046.1				968.6
2014	25-Jun-14	18	1115.1	716.1		2033.1				945.8
2014	25-Jun-14	19	1169.1	963.6		2028.8				956.4
2014	25-Jun-14	20	1215.6	1001.8		1987.8				945.1
2014	25-Jun-14	21	997	734.9		1811.4				810
2014	25-Jun-14	22	979.6	669.7		1531.1				644.3
2014	25-Jun-14	23	760.3	507.2		984.3				535.9
2014	26-Jun-14	0	457.8	429.7		793.7				551.2
2014	26-Jun-14	1	294.2	284		793.5				548.3
2014	26-Jun-14	2	247.5	242.4		799.7				523.3
2014	26-Jun-14	3	270.1	233		794.4				519.8
2014	26-Jun-14	4	259	251.3		796.7				522.9
2014	26-Jun-14	5	249.7	234.2		792.8				520.9
2014	26-Jun-14	6	238.3	242.1		831.1				604.6
2014	26-Jun-14	7	223.3	256.9		769.9				543.5
2014	26-Jun-14	8	207	218.2		795.3				584.4
2014	26-Jun-14	9	284.2	284.9		955.5				823.1
2014	26-Jun-14	10	380.1	275.4		1065.3				845
2014	26-Jun-14	11	531.5	345.3		1487.2				864.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	26-Jun-14	12	969.3	436.4		1889.5				927
2014	26-Jun-14	13	751.1	975.5		1952				922.3
2014	26-Jun-14	14	1068.2	1256.7		1938.7				912.1
2014	26-Jun-14	15	1171.8	1091.4		1944.1				952.1
2014	26-Jun-14	16	1097.5	511.9		1939.7				936.5
2014	26-Jun-14	17	1016.2	682.1		1948.5				948
2014	26-Jun-14	18	970.4	866.6		1950.6				935.2
2014	26-Jun-14	19	962.2	645.4		1918.7				901.2
2014	26-Jun-14	20	866	511.7		1921				899
2014	26-Jun-14	21	542.6	426.6		1685.3				739.9
2014	26-Jun-14	22	448.3	327.9		1224.3				522.2
2014	26-Jun-14	23	494.4	250.3		899.5				549
2014	27-Jun-14	0	449.5	429.9		823.5				489.6
2014	27-Jun-14	1	365	290.2		806.3				478.3
2014	27-Jun-14	2	252.5	238.4	0.002	801.5				479.1
2014	27-Jun-14	3	242.1	239.1	0.063	798.8				479.5
2014	27-Jun-14	4	245.2	232.3	0.064	796.5				485.8
2014	27-Jun-14	5	259.5	206.4	0.065	797.3				478.2
2014	27-Jun-14	6	332.3	210.3	0.065	832.4				497.7
2014	27-Jun-14	7	363.9	227.9	0.072	795.2				518.7
2014	27-Jun-14	8	513.4	385.9	0.08	1179				692.1
2014	27-Jun-14	9	741.1	691.6	0.066	1758.8				777.3
2014	27-Jun-14	10	948.6	923.5	0.089	1734.9				831.4
2014	27-Jun-14	11	1163.4	1107.8	0.242	1901.7				860.2
2014	27-Jun-14	12	1558.7	1352.2	0.431	1947.9				877.3
2014	27-Jun-14	13	1279.3	1232.2	0.739	1955.9				862.5
2014	27-Jun-14	14	1109.4	925.5	0.789	1982.1				887.3
2014	27-Jun-14	15	1015.1	772.6	0.478	1985.8				890
2014	27-Jun-14	16	969.2	675.5	0.064	2002.6				888.2
2014	27-Jun-14	17	947.1	608.1		1984				879.2
2014	27-Jun-14	18	997.8	589.6		1875.4				863.9
2014	27-Jun-14	19	944.9	715.3		1552.2				816.7
2014	27-Jun-14	20	1094.4	826.7		1854.7				868.3
2014	27-Jun-14	21	818.4	781		1341				787.9
2014	27-Jun-14	22	1214.9	626.9		924				684.5
2014	27-Jun-14	23	928.6	713.6		797.1				519.1
2014	28-Jun-14	0	598.2	515.5		787.6				501.6
2014	28-Jun-14	1	477.6	327.3		778.2				490.8
2014	28-Jun-14	2	333	295.8		778.1				486.3
2014	28-Jun-14	3	316	271		769.6				487
2014	28-Jun-14	4	317.1	254.5		768				485
2014	28-Jun-14	5	291.3	243.4		768.4				485.1
2014	28-Jun-14	6	295	239		772.6				488.5
2014	28-Jun-14	7	307.9	255.9		762				483.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	28-Jun-14	8	273.2	233		883.3				591.1
2014	28-Jun-14	9	258.2	250.5		879.7				651.7
2014	28-Jun-14	10	296.5	308.8		929.2				779.8
2014	28-Jun-14	11	268.9	245.7		909.1				679.1
2014	28-Jun-14	12	283.8	241.2		884.9				776.6
2014	28-Jun-14	13	333	368		1234.1				784.2
2014	28-Jun-14	14	263.3	284.9		937.9				715.6
2014	28-Jun-14	15	276.6	314		802.6				727.8
2014	28-Jun-14	16	449.4	373.4		1136.8				766.8
2014	28-Jun-14	17	595.5	357.9		1806.2				847.5
2014	28-Jun-14	18	571.2	362		1750.8				817.3
2014	28-Jun-14	19	386.3	243.3		1025.4				712.7
2014	28-Jun-14	20	390.8	240.2		926.1				640.2
2014	28-Jun-14	21	335.6	201.9		884.7				537.2
2014	28-Jun-14	22	255	195.8		780.9				507.6
2014	28-Jun-14	23	252.4	199.7		799.6				518.8
2014	29-Jun-14	0	249.1	209.3		773.5				507.8
2014	29-Jun-14	1	231.8	192.5		774.2				502.8
2014	29-Jun-14	2	218.4	189.6		768.7				503
2014	29-Jun-14	3	225.1	186.7		774.3				503.5
2014	29-Jun-14	4	223.9	167.9		767.8				504.3
2014	29-Jun-14	5	220.4	153.4		767.3				508.8
2014	29-Jun-14	6	233.9	161.2		772.4				582.5
2014	29-Jun-14	7	228.3	161.1		766.4				585.8
2014	29-Jun-14	8	216.6	160.6		729.5				537
2014	29-Jun-14	9	219.4	163.6		785.4				533.1
2014	29-Jun-14	10	238.7	166.5		684.9				547
2014	29-Jun-14	11	246.9	270.3		800				621.4
2014	29-Jun-14	12	239.4	343.4		849.1				700.7
2014	29-Jun-14	13	242.7	202.5		740.7				697.4
2014	29-Jun-14	14	251.4	195.4		817.9				720
2014	29-Jun-14	15	255.3	364.2		1153.8				783.1
2014	29-Jun-14	16	312.1	572.7		1582.6				725.1
2014	29-Jun-14	17	427.2	791.6		1828.9				706.6
2014	29-Jun-14	18	702.8	770.5		1930.5				719.7
2014	29-Jun-14	19	524.5	684.7		1369.2				715
2014	29-Jun-14	20	697.5	820.7		1667.4				780.4
2014	29-Jun-14	21	477.3	862		1253.6				625.9
2014	29-Jun-14	22	348.1	691.8		828.5				496.4
2014	29-Jun-14	23	239.6	494.2		782.4				487.8
2014	30-Jun-14	0	202.3	383.1		780				531
2014	30-Jun-14	1	161.5	261.9		771.7				526.3
2014	30-Jun-14	2	161.2	197.2		771.3				522.6
2014	30-Jun-14	3	162.1	219.4		765.7				519.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	30-Jun-14	4	159.7	209.8		767.9				522.7
2014	30-Jun-14	5	170	192.3		770.5				519.3
2014	30-Jun-14	6	172.1	180.5		775.2				516.6
2014	30-Jun-14	7	177.5	182.7		763				517
2014	30-Jun-14	8	194.3	197.3		771				514.8
2014	30-Jun-14	9	191.4	203.6		778.3				509
2014	30-Jun-14	10	230	233.2		824.3				595.7
2014	30-Jun-14	11	277.2	308		983.2				697
2014	30-Jun-14	12	406.1	389.3		1521.2				822.7
2014	30-Jun-14	13	571.4	668.3		1753.3				859.1
2014	30-Jun-14	14	872.2	1005		2017.2				874.8
2014	30-Jun-14	15	1458	1502.2		2040.8				868.6
2014	30-Jun-14	16	1752.3	1739.9		2030.3				865.3
2014	30-Jun-14	17	880	1758.2		2022.3				850.1
2014	30-Jun-14	18	769.3	1216.9		1955.3				788.5
2014	30-Jun-14	19	722.3	816		1601.1				741.5
2014	30-Jun-14	20	568.8	737.1		1781.4				646.4
2014	30-Jun-14	21	997.9	1138		1485.4				567.1
2014	30-Jun-14	22	689.3	754		970				498
2014	30-Jun-14	23	552.8	567.5		807.9				502.8
2014	1-Jul-14	0	357	408.8		805.6				498.2
2014	1-Jul-14	1	294.1	293.1	0.037	797.2				493.8
2014	1-Jul-14	2	254.8	250.9	0.065	796.6				500
2014	1-Jul-14	3	220.1	279.7	0.065	800.7				502.5
2014	1-Jul-14	4	229.3	244.7	0.074	791.6				501.1
2014	1-Jul-14	5	230.9	244.4	0.08	800.5				499.6
2014	1-Jul-14	6	210.1	256.9	0.079	859.3				499
2014	1-Jul-14	7	186.2	231.9	0.072	1324.2				493.3
2014	1-Jul-14	8	177.2	241.8	0.064	1373.4				490.4
2014	1-Jul-14	9	231.3	270.1	0.12	1539.6				582.9
2014	1-Jul-14	10	249.2	344.3	0.178	2291.7				671.2
2014	1-Jul-14	11	318.6	466.2	0.272	2285.7				728.3
2014	1-Jul-14	12	513	783.7	0.285	2324.7				823.6
2014	1-Jul-14	13	723.2	1183.3	0.25	2341.2				870.9
2014	1-Jul-14	14	1374.6	1503.4	0.271	2355.2				867.2
2014	1-Jul-14	15	1402.7	1538.4	0.405	2410.5				868.2
2014	1-Jul-14	16	1394.5	1557.1	0.607	2438.3				868.9
2014	1-Jul-14	17	1403.9	1618	0.817	2276.6				865.6
2014	1-Jul-14	18	1462.6	1641.4	0.822	2191.1				852.2
2014	1-Jul-14	19	1509.7	1691.5	0.74	2134.5				831.2
2014	1-Jul-14	20	1569.8	1878	0.545	2017.4				827.4
2014	1-Jul-14	21	1265.2	1368.5	0.245	1297.1				704.4
2014	1-Jul-14	22	853.5	1053.7	0.237	895.7				673.3
2014	1-Jul-14	23	651.5	797.3	0.237	776.6				634.2



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	2-Jul-14	0	531.9	739.5	0.239	775.3				490.7
2014	2-Jul-14	1	301.9	566.2	0.239	776.5				485.7
2014	2-Jul-14	2	197.3	354.8	0.239	774.4				488.8
2014	2-Jul-14	3	169.2	235.9	0.239	776.1				485.1
2014	2-Jul-14	4	174.6	188.5	0.238	777.4				487.9
2014	2-Jul-14	5	186.3	226.7	0.23	807.2				507.2
2014	2-Jul-14	6	288.4	289.8	0.229	1022.9				522
2014	2-Jul-14	7	387.2	515.5	0.231	1427				644.5
2014	2-Jul-14	8	452.2	738.7	0.253	1325.7				585.4
2014	2-Jul-14	9	669.5	1320.9	0.277	1801.1				757
2014	2-Jul-14	10	1089.8	1572.1	0.468	2082.9				862.7
2014	2-Jul-14	11	1236.6	1605.2	0.775	2079.5				884.2
2014	2-Jul-14	12	1317.4	1618.1	0.86	2091.5				864.4
2014	2-Jul-14	13	1411.2	1651	0.867	2094.2				866.1
2014	2-Jul-14	14	1461.9	1759.2	0.874	2170.9				867.2
2014	2-Jul-14	15	1443.9	1700.4	0.874	2741.8				866.4
2014	2-Jul-14	16	1382.9	1730.3	0.808	2844.3				849.3
2014	2-Jul-14	17	1277.4	1692.4	0.334	2812.1				778.1
2014	2-Jul-14	18	1295.6	1741.9		2762.7				812.9
2014	2-Jul-14	19	1360	1831.9		2573.4				753.8
2014	2-Jul-14	20	811.6	1811.8		2099				785.3
2014	2-Jul-14	21	820.5	1808.1		2120.9				713.7
2014	2-Jul-14	22	1048.5	1822.2		1971.4				682.7
2014	2-Jul-14	23	690.1	1329.8		1167.8				614.2
2014	3-Jul-14	0	525.7	905.8		776.9				470.1
2014	3-Jul-14	1	347	636.3		746				471.7
2014	3-Jul-14	2	283.6	486.2		753.5				567.3
2014	3-Jul-14	3	201.8	402.4		754.6				608.3
2014	3-Jul-14	4	209.9	273.7	0.041	753.5				613.4
2014	3-Jul-14	5	196.1	248.2	0.072	725.3				583.2
2014	3-Jul-14	6	179.8	229	0.075	721.4				465.2
2014	3-Jul-14	7	195.7	242.9	0.099	714.1				464.5
2014	3-Jul-14	8	240.9	318.4		750.7				468
2014	3-Jul-14	9	421.9	538.9		965.3				551.6
2014	3-Jul-14	10	751.3	775.8		1282.8				682.8
2014	3-Jul-14	11	969.4	937.5		1869.5				824.4
2014	3-Jul-14	12	1370.7	1464.6		2033.3				836.5
2014	3-Jul-14	13	1744.9	1865		2231.7				830.7
2014	3-Jul-14	14	1455.3	1525.6		2241.7				833.4
2014	3-Jul-14	15	1436.6	1576.6		2111.3				805.2
2014	3-Jul-14	16	1578.6	1856.9		1504.1				750.6
2014	3-Jul-14	17	1432.6	1687.6		1026				648.3
2014	3-Jul-14	18	1053.7	1146.2		753.1				635.2
2014	3-Jul-14	19	659.2	871.9		741.6				633.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Jul-14	20	380.6	631.7		743.2				654.8
2014	3-Jul-14	21	285.1	421.7		742.7				705
2014	3-Jul-14	22	188.8	276.4		702.5				801.7
2014	3-Jul-14	23	199.1	223.8		10.53				212.052
2014	4-Jul-14	0	194.8	245.4						
2014	4-Jul-14	1	181.9	212.8						
2014	4-Jul-14	2	178.1	222.8						
2014	4-Jul-14	3	153	151.4						
2014	4-Jul-14	4	135.7	148.3						
2014	4-Jul-14	5	152.3	207.4						
2014	4-Jul-14	6	204.4	171.1						
2014	4-Jul-14	7	190.9	240.7						
2014	4-Jul-14	8	197.1	214.2						
2014	4-Jul-14	9	189.3	230.3						
2014	4-Jul-14	10	188.4	212.8						
2014	4-Jul-14	11	240.6	336.4						
2014	4-Jul-14	12	288.4	456.1						
2014	4-Jul-14	13	591.4	520.5						
2014	4-Jul-14	14	688.5	635.9						
2014	4-Jul-14	15	690.4	668.8						
2014	4-Jul-14	16	716.3	642.1						
2014	4-Jul-14	17	691	674.2						
2014	4-Jul-14	18	708.6	655.1						
2014	4-Jul-14	19	673.9	649.8						
2014	4-Jul-14	20	668.5	669.1						
2014	4-Jul-14	21	565.3	561.3						
2014	4-Jul-14	22	469.8	511.4						
2014	4-Jul-14	23	305.3	350.2						
2014	5-Jul-14	0	161.7	177.3						
2014	5-Jul-14	1	146.9	127.3						
2014	5-Jul-14	2	147.2	165.3						
2014	5-Jul-14	3	141.2	154.5						
2014	5-Jul-14	4	139.6	119.9						
2014	5-Jul-14	5	136.7	153						
2014	5-Jul-14	6	149.7	141.3						
2014	5-Jul-14	7	149.9	160.4						
2014	5-Jul-14	8	145.5	149.5						
2014	5-Jul-14	9	145.8	144.2						
2014	5-Jul-14	10	197.2	186.2						
2014	5-Jul-14	11	317.5	350.3						
2014	5-Jul-14	12	465	635						
2014	5-Jul-14	13	545.6	623.2						
2014	5-Jul-14	14	552	592.1						
2014	5-Jul-14	15	562.9	594.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	5-Jul-14	16	568	563.9						
2014	5-Jul-14	17	368.1	350.1						
2014	5-Jul-14	18	249.1	447.4						
2014	5-Jul-14	19	178.9	436.9						
2014	5-Jul-14	20	101	460.2						
2014	5-Jul-14	21	224.3	210						
2014	5-Jul-14	22	240.5	196						
2014	5-Jul-14	23	255.2	251.6						
2014	6-Jul-14	0	264.6	254.8						
2014	6-Jul-14	1	275	268.9						
2014	6-Jul-14	2	265.9	271.8						
2014	6-Jul-14	3	286.6	285.5						
2014	6-Jul-14	4	277.3	312.7						
2014	6-Jul-14	5	291.6	286.2						
2014	6-Jul-14	6	286.3	267.3						
2014	6-Jul-14	7	297	301.5						
2014	6-Jul-14	8	296	279						
2014	6-Jul-14	9	302	249.6						
2014	6-Jul-14	10	310.6	279.3						
2014	6-Jul-14	11	317.5	267.9						
2014	6-Jul-14	12	315.7	289.5						
2014	6-Jul-14	13	320.5	317.1						
2014	6-Jul-14	14	351	340.9						
2014	6-Jul-14	15	325.8	369.3						
2014	6-Jul-14	16	363.5	475.6						
2014	6-Jul-14	17	384.9	818.2						1.196
2014	6-Jul-14	18	386.2	829.6						0.8
2014	6-Jul-14	19	326.2	660.7		0				4.1
2014	6-Jul-14	20	362.6	912.2		0				13.2
2014	6-Jul-14	21	313.4	579.5		0				24.9
2014	6-Jul-14	22	281.6	475.1	0.04	0				36.5
2014	6-Jul-14	23	299.7	318.2	0.075	0				26.3
2014	7-Jul-14	0	281.4	288.5	0.084	0				5.1
2014	7-Jul-14	1	283	274.2	0.079	0				8.6
2014	7-Jul-14	2	285.8	291.1	0.051	0				0.7
2014	7-Jul-14	3	286.1	311.1	0.051	0				0.7
2014	7-Jul-14	4	279.4	291.1	0.051	0				1
2014	7-Jul-14	5	489.2	474.9	0.052	0				64.4
2014	7-Jul-14	6	606.7	612.1	0.051	0				221.2
2014	7-Jul-14	7	598.2	673.6	0.048	0				438
2014	7-Jul-14	8	591.5	618.3	0.087	0				602.7
2014	7-Jul-14	9	501.4	675.2	0.179	0				609.8
2014	7-Jul-14	10	424.3	647.8	0.238	311.4				666.9
2014	7-Jul-14	11	415.7	830	0.225	847.3				683.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	7-Jul-14	12	480.2	914.9	0.258	1288.2				776.5
2014	7-Jul-14	13	633.1	1138.7	0.311	2023.3				846
2014	7-Jul-14	14	907	1658.6	0.419	2058.4				822.3
2014	7-Jul-14	15	1055.3	1912	0.773	2117.2				827.2
2014	7-Jul-14	16	1384.5	1017.9	0.794	2157.5				813.8
2014	7-Jul-14	17	1263.1	1096.1	0.548	2141.8				743.1
2014	7-Jul-14	18	907.5	1952.7	0.291	2092.8				670.1
2014	7-Jul-14	19	842.7	1285.9	0.002	2067.8				584.8
2014	7-Jul-14	20	653.5	878.5		1894.2				494.4
2014	7-Jul-14	21	306.4	508.9		1181.7				484.1
2014	7-Jul-14	22	171.1	493.9		857.9				475.4
2014	7-Jul-14	23	145.1	341.3		818.9				476
2014	8-Jul-14	0	136	183.3		820				471.9
2014	8-Jul-14	1	106.8	157.1		823.6				474.3
2014	8-Jul-14	2	134.2	156.8		821				476.8
2014	8-Jul-14	3	135.3	138.2		809.6				471
2014	8-Jul-14	4	152.1	124.2	0.034	809.3				474
2014	8-Jul-14	5	157.5	131.6	0.035	807.3				475.3
2014	8-Jul-14	6	177.2	141	0.053	806.9				472.9
2014	8-Jul-14	7	196.9	153.3	0.064	793.7				474.4
2014	8-Jul-14	8	197.8	129.8	0.134	812.7				474.5
2014	8-Jul-14	9	267.6	220.4	0.221	812.6				470.8
2014	8-Jul-14	10	319.5	290.6	0.227	810.5				470.4
2014	8-Jul-14	11	433.3	299.5	0.226	878.8				514.4
2014	8-Jul-14	12	578	251.3	0.228	1569.2				652.8
2014	8-Jul-14	13	687.6	224.8	0.254	2050.9				770
2014	8-Jul-14	14	599.8	251.9	0.327	1987.4				833.7
2014	8-Jul-14	15	512.2	260	0.278	1948.8				817.7
2014	8-Jul-14	16	493.3	222.2	0.292	1930.9				825.8
2014	8-Jul-14	17	457.4	199.9	0.232	2055.4				781.5
2014	8-Jul-14	18	414	181.3	0.034	1997.9				767.9
2014	8-Jul-14	19	300.1	127.7		1221.5				727
2014	8-Jul-14	20	208.9	87.6		903.7				690.2
2014	8-Jul-14	21	125.8	57.8		843.1				555.1
2014	8-Jul-14	22	149.9	40.3		836.4				471.8
2014	8-Jul-14	23	163.5	53.4		822.2				504.8
2014	9-Jul-14	0	149.7	72.8		831.2				515.1
2014	9-Jul-14	1	170.2	58.6		835				493.5
2014	9-Jul-14	2	203.2	95.3		861				492.5
2014	9-Jul-14	3	195.8	233.3		893.2				513.4
2014	9-Jul-14	4	215.2	238.8		913.1				519.8
2014	9-Jul-14	5	215.3	234.5		935.1				520.6
2014	9-Jul-14	6	202.3	217.2		938.6				520.7
2014	9-Jul-14	7	207.6	224.3		952.2				520.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	9-Jul-14	8	165.3	203.6		984.7				521
2014	9-Jul-14	9	170.7	252.5		998.5				519.4
2014	9-Jul-14	10	211.5	295.3		1015.6				516.6
2014	9-Jul-14	11	243.1	357.4		1079.4				561.3
2014	9-Jul-14	12	259.3	373.7		1034.2				524.2
2014	9-Jul-14	13	404.5	437.4		1091.7				507.4
2014	9-Jul-14	14	606.5	476.4		1150.6				493.2
2014	9-Jul-14	15	828.6	786.9		1658.8				499.3
2014	9-Jul-14	16	709.3	823.1		1613.9				485
2014	9-Jul-14	17	951.9	1119.9		1372.1				477.7
2014	9-Jul-14	18	714.6	952.3		1140.8				485.4
2014	9-Jul-14	19	551.9	910.5		1123.3				414.8
2014	9-Jul-14	20	386.6	731.8		1132.8				405.2
2014	9-Jul-14	21	276.3	442.5		1123.8				404.5
2014	9-Jul-14	22	210.1	254.6		1113.3				446.8
2014	9-Jul-14	23	211.1	256.3		1109.5				375.5
2014	10-Jul-14	0	212.2	237.5		1100				4.512
2014	10-Jul-14	1	224.8	230.1		1101.6				
2014	10-Jul-14	2	229.8	235.4		1102.4				
2014	10-Jul-14	3	229.2	251.7		1083.3				
2014	10-Jul-14	4	218.7	246.7		1078.3				
2014	10-Jul-14	5	221.1	231.7		1064.8				
2014	10-Jul-14	6	216.3	254.9		1129.9				
2014	10-Jul-14	7	212.1	250.1		1593.7				
2014	10-Jul-14	8	215.6	243.6		1846.2				
2014	10-Jul-14	9	215.1	274.7		2408.7				
2014	10-Jul-14	10	238.1	283.7		2419.4				
2014	10-Jul-14	11	218.2	286.4		2406.5				
2014	10-Jul-14	12	229.9	325.1		2395.4				
2014	10-Jul-14	13	219.7	347.1		2400				
2014	10-Jul-14	14	288.2	461.7		2377.8				
2014	10-Jul-14	15	458.2	700.8		2366.3				
2014	10-Jul-14	16	577.5	962.3		2356.3				
2014	10-Jul-14	17	828.5	1489.3		2120.3				
2014	10-Jul-14	18	911.7	1347.3		1337.4				
2014	10-Jul-14	19	762.2	932.7		1012.7				
2014	10-Jul-14	20	588.5	741.7		962.1				
2014	10-Jul-14	21	373.2	553.4		962.3				
2014	10-Jul-14	22	330.4	358		949.1				
2014	10-Jul-14	23	343.3	365.8		939.9				
2014	11-Jul-14	0	326.5	382.1		932.8				
2014	11-Jul-14	1	336.9	364.3		932.6				
2014	11-Jul-14	2	336.5	409.1		915.6				
2014	11-Jul-14	3	329.3	373		905				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	11-Jul-14	4	332.7	407.5		899.7				
2014	11-Jul-14	5	336	372.2		897.4				
2014	11-Jul-14	6	325.9	384.3		889.3				
2014	11-Jul-14	7	361.5	322.7		896.5				
2014	11-Jul-14	8	368.2	389.9		902.1				
2014	11-Jul-14	9	386.8	451.7		1042.2				
2014	11-Jul-14	10	532.9	632.1		1003.9				
2014	11-Jul-14	11	927.1	1081.7		953.7				
2014	11-Jul-14	12	1305	1051.6		1259.4				
2014	11-Jul-14	13	915.1	1149.3		1794				
2014	11-Jul-14	14	1159.8	1283.7		2082.5				
2014	11-Jul-14	15	1217	1952.7		2086.1				
2014	11-Jul-14	16	1140.8	1451.1		2108.6				
2014	11-Jul-14	17	1070.8	1327.2		2065.8				
2014	11-Jul-14	18	808.2	1135.3		1849.8				
2014	11-Jul-14	19	664.1	1178.3		1866				
2014	11-Jul-14	20	894.3	1241.8		2222				
2014	11-Jul-14	21	691.2	1144.3		1910				
2014	11-Jul-14	22	487.7	1005.9		1732.3				
2014	11-Jul-14	23	554.2	759		1159.2				
2014	12-Jul-14	0	567.5	1321.7		872				
2014	12-Jul-14	1	383.8	989.8		871.8				
2014	12-Jul-14	2	388.1	774.9		870.6				
2014	12-Jul-14	3	378.8	483		874.1				
2014	12-Jul-14	4	348.4	387.7		864.6				
2014	12-Jul-14	5	276.8	371.9		865.2				
2014	12-Jul-14	6	291.5	338.4		870.2				
2014	12-Jul-14	7	267.4	271		939.3				
2014	12-Jul-14	8	245.7	285.8		956				
2014	12-Jul-14	9	219.7	350.9		902.9				
2014	12-Jul-14	10	320.8	670.1		1494.1				
2014	12-Jul-14	11	661.8	870.6		2297.2				
2014	12-Jul-14	12	1008.3	746.2		2283.1				
2014	12-Jul-14	13	633	793.3		2278.6				
2014	12-Jul-14	14	567.2	789		2282.7				
2014	12-Jul-14	15	630.7	762.1		2261.3				
2014	12-Jul-14	16	632	721		2232.6				
2014	12-Jul-14	17	725.3	743.3		2077.8				
2014	12-Jul-14	18	635.7	787.3		2197.3				
2014	12-Jul-14	19	560.6	591.6		1975.5				
2014	12-Jul-14	20	535.2	571.3		2151.8				
2014	12-Jul-14	21	400.3	371.9		1860.8				
2014	12-Jul-14	22	341.3	233		1673.2				
2014	12-Jul-14	23	382.1	137.7		1456.5				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	13-Jul-14	0	338.5	72.3		1130.2				
2014	13-Jul-14	1	212.3	45.7		901.5				
2014	13-Jul-14	2	130.8	43.3		878.3	0			
2014	13-Jul-14	3	104.8	40.8		887.1	0			
2014	13-Jul-14	4	110.6	43.3		869.6	0			
2014	13-Jul-14	5	101.6	104.7		877.4	0			
2014	13-Jul-14	6	117.8	100.6		880.8	0			
2014	13-Jul-14	7	109.6	117.6		844.7	0			
2014	13-Jul-14	8	103.5	115.4		867.2	0			
2014	13-Jul-14	9	128.4	134.5		876.2	0			
2014	13-Jul-14	10	169.8	244		943	0			
2014	13-Jul-14	11	539	838		1528.8	34			
2014	13-Jul-14	12	1058.1	1266.8		2200.2	488.9			
2014	13-Jul-14	13	1114	1332.4		2161.6	405.4			
2014	13-Jul-14	14	1201.5	1260.5		2182	372.3			
2014	13-Jul-14	15	1184.4	1241.1		2173.4	376.2			
2014	13-Jul-14	16	1161.2	1407.9		2171.7	379.2			
2014	13-Jul-14	17	1214.3	1523.1		2218.3	385.1			
2014	13-Jul-14	18	1389.9	1474.4		2201.5	141.488			
2014	13-Jul-14	19	1523.2	1686.3		2198.7				
2014	13-Jul-14	20	1507.9	1832.5		2178.5				
2014	13-Jul-14	21	894.8	1813.3		1960.8				
2014	13-Jul-14	22	694.2	1519.2	0.048	1692.5				
2014	13-Jul-14	23	453.1	1102.1	0.064	1210.6				
2014	14-Jul-14	0	295.4	731.5	0.064	909.4				
2014	14-Jul-14	1	198.6	476.3	0.064	878.3				
2014	14-Jul-14	2	196.4	316.9	0.07	887.2				
2014	14-Jul-14	3	199.4	238	0.071	886.1				
2014	14-Jul-14	4	192.7	191.5	0.064	893.5				
2014	14-Jul-14	5	196.8	188	0.123	890.3				
2014	14-Jul-14	6	232.3	177.8	0.206	893.7				
2014	14-Jul-14	7	221.6	238.6	0.348	866.6				
2014	14-Jul-14	8	204.6	231.4	0.713	881.7				
2014	14-Jul-14	9	207.4	225.8	0.806	880.9				
2014	14-Jul-14	10	302	319.8	0.804	939.1	0			
2014	14-Jul-14	11	547	584.7	0.802	1501.7	0			
2014	14-Jul-14	12	764.7	1044.5	0.805	2148.7	0			
2014	14-Jul-14	13	1040.9	1123.4	0.807	2253	295.1			
2014	14-Jul-14	14	1065	771.7	0.807	2300.5	434.6			
2014	14-Jul-14	15	789.1	800.2	0.668	2310.3	448			
2014	14-Jul-14	16	812.3	794	0.294	2284.7	479.1			
2014	14-Jul-14	17	695.2	580	0.024	2044.3	468.4			
2014	14-Jul-14	18	484.5	530.3		1981.3	448.2			
2014	14-Jul-14	19	340.2	524.1		1678.9	452.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Jul-14	20	285.1	915.6		1645.3	502.2			
2014	14-Jul-14	21	154.9	466.1		1237.2	516			
2014	14-Jul-14	22	111.6	265.9		889.3	463.5			
2014	14-Jul-14	23	165.8	192.3		870.7	482.9			
2014	15-Jul-14	0	126.1	138		886.6	482.7			
2014	15-Jul-14	1	140	138.7		884.2	492.9			
2014	15-Jul-14	2	145.6	150.4		888.2	543.7			
2014	15-Jul-14	3	153.7	155.8		891	636.4			
2014	15-Jul-14	4	141.9	146.8		879.1	813.8			
2014	15-Jul-14	5	159.3	140.5		875.6	1124.1			
2014	15-Jul-14	6	166.7	123.6		867.9	1783.6			
2014	15-Jul-14	7	198.4	156.9		872.2	2204			
2014	15-Jul-14	8	171.2	183.3		893.4	2311.5			
2014	15-Jul-14	9	251.8	259.7		907.8	2382.6			
2014	15-Jul-14	10	293.9	348.7		892.5	2459.6			
2014	15-Jul-14	11	940.3	879.2		1081.7	2545.5			
2014	15-Jul-14	12	1335.4	1241.4		1867.2	2541.4			
2014	15-Jul-14	13	907.1	1238.7		1985.8	2817.7			
2014	15-Jul-14	14	879.7	1287.7		2070.5	3251.6			
2014	15-Jul-14	15	845.3	1217.1		2169.3	3545.5			
2014	15-Jul-14	16	658.9	878.3		2056.8	3580			
2014	15-Jul-14	17	669.2	863.1		1496.9	3932.2			
2014	15-Jul-14	18	700.7	1034.1		1065.4	4098			
2014	15-Jul-14	19	755.3	1114.9		958.8	4143			
2014	15-Jul-14	20	428.4	1098.7		893.9	4058.3			
2014	15-Jul-14	21	236.8	796.9		865.3	3618.7			
2014	15-Jul-14	22	330.6	482.3		471.9	3012.8			
2014	15-Jul-14	23	275.2	284.8			2647.2			
2014	16-Jul-14	0	204.1	191.2			2650.1			
2014	16-Jul-14	1	197.7	150.8			2616.9			
2014	16-Jul-14	2	178.5	146.8			2615.2			
2014	16-Jul-14	3	182.4	140.4			2629.2			
2014	16-Jul-14	4	180.7	132.5			2635.3			
2014	16-Jul-14	5	171.3	134.6			2638.2			
2014	16-Jul-14	6	178.9	125			2653.9			
2014	16-Jul-14	7	187	143.7			2602.1			
2014	16-Jul-14	8	178.5	130.2			2651.4			
2014	16-Jul-14	9	187.2	164.9			2757.5			
2014	16-Jul-14	10	178.8	154.7			2879.9			
2014	16-Jul-14	11	204.8	149.2			3225.3			
2014	16-Jul-14	12	205.4	171.2			3564.4			
2014	16-Jul-14	13	224.6	184			3568			
2014	16-Jul-14	14	219.7	165.1			3472.6			
2014	16-Jul-14	15	211.4	179.7			3706.5			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	16-Jul-14	16	237.9	181.4			3819.2			
2014	16-Jul-14	17	193.9	181.9			3851.8			
2014	16-Jul-14	18	195.6	158.2			3637.7			
2014	16-Jul-14	19	181.1	145			3146.5			
2014	16-Jul-14	20	185.2	156.6			3054.7			
2014	16-Jul-14	21	181	144.4			2851.4			
2014	16-Jul-14	22	186	152.1			2639.8			
2014	16-Jul-14	23	174.1	146.8			2626			
2014	17-Jul-14	0	174.1	155.4			2617.8			
2014	17-Jul-14	1	178.2	133.5			2614.8			
2014	17-Jul-14	2	185.8	129.9			2678.3			
2014	17-Jul-14	3	170.8	131.1			2635.4			
2014	17-Jul-14	4	170.8	122.9			2621.3			
2014	17-Jul-14	5	164.1	123.4			2614.6			
2014	17-Jul-14	6	179.1	120.1			2607.5			
2014	17-Jul-14	7	171.4	141.6			2629.4			
2014	17-Jul-14	8	167.6	135.3			2674.6			
2014	17-Jul-14	9	165.4	125.6			3047.9			
2014	17-Jul-14	10	186.8	62.7			3194.1			
2014	17-Jul-14	11	179.9	63.4			3529.9			
2014	17-Jul-14	12	268.5	95.5			3649.5			
2014	17-Jul-14	13	736.3	630.1			3678			
2014	17-Jul-14	14	824.8	868.4			3796.8			
2014	17-Jul-14	15	882.3	1155.3			4123.8			
2014	17-Jul-14	16	1359.5	1556.7			4202.6			
2014	17-Jul-14	17	1457.8	956.3	0.033		4144.7			
2014	17-Jul-14	18	856.4	419	0.052		3905			
2014	17-Jul-14	19	480.9	503.1	0.057		3837.6			
2014	17-Jul-14	20	341.3	418.5	0.064		3704.6			
2014	17-Jul-14	21	234.8	283.2	0.061		3130.8			
2014	17-Jul-14	22	193.5	199.6	0.05		2792.2			
2014	17-Jul-14	23	211.9	179	0.05		2109			
2014	18-Jul-14	0	197.4	175.4	0.05		485.6			
2014	18-Jul-14	1	193.8	165.6	0.062		53.43			
2014	18-Jul-14	2	178.6	156.3	0.039					
2014	18-Jul-14	3	174.3	152.3	0.046					
2014	18-Jul-14	4	187.1	147.8	0.05					
2014	18-Jul-14	5	185.1	155.2	0.049					
2014	18-Jul-14	6	191.5	147.1	0.049					
2014	18-Jul-14	7	196.8	167.9	0.05					
2014	18-Jul-14	8	257	267.3	0.05					
2014	18-Jul-14	9	418.7	637.4	0.034					
2014	18-Jul-14	10	689.8	780						
2014	18-Jul-14	11	619.2	649.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	18-Jul-14	12	601.4	557.3						
2014	18-Jul-14	13	634.8	442.5						
2014	18-Jul-14	14	455.8	342.5						
2014	18-Jul-14	15	484.3	273.7						
2014	18-Jul-14	16	407.8	212						
2014	18-Jul-14	17	344.9	178.8						
2014	18-Jul-14	18	267.4	195.5						
2014	18-Jul-14	19	295.1	208.1						
2014	18-Jul-14	20	174.3	121.1						
2014	18-Jul-14	21	160.8	102.5						
2014	18-Jul-14	22	150.8	102.3						
2014	18-Jul-14	23	137.6	102.2						
2014	19-Jul-14	0	150	104.2						
2014	19-Jul-14	1	143.9	105.4						
2014	19-Jul-14	2	140.1	130.7						
2014	19-Jul-14	3	145.6	128.2						
2014	19-Jul-14	4	136.6	112						
2014	19-Jul-14	5	143.2	122.5						
2014	19-Jul-14	6	143.5	120.4						
2014	19-Jul-14	7	158.9	157.8						
2014	19-Jul-14	8	152.5	147.8						
2014	19-Jul-14	9	152.9	155.9						
2014	19-Jul-14	10	186.2	187						
2014	19-Jul-14	11	251.5	407.8						
2014	19-Jul-14	12	290.9	662.4						
2014	19-Jul-14	13	335.8	794.7						
2014	19-Jul-14	14	296.1	839.3						
2014	19-Jul-14	15	281.3	730.5						
2014	19-Jul-14	16	285.4	729.4						
2014	19-Jul-14	17	357.4	673.5						
2014	19-Jul-14	18	358.5	868.9						
2014	19-Jul-14	19	335.4	961.7						
2014	19-Jul-14	20	255.5	844.7						
2014	19-Jul-14	21	219.3	744.5						
2014	19-Jul-14	22	294.3	629.6						
2014	19-Jul-14	23	300.4	499.1						
2014	20-Jul-14	0	307.1	317.5						
2014	20-Jul-14	1	349.4	277.7						
2014	20-Jul-14	2	362.6	58.086						
2014	20-Jul-14	3	377.2							
2014	20-Jul-14	4	400.3							
2014	20-Jul-14	5	432.8							
2014	20-Jul-14	6	465.5							
2014	20-Jul-14	7	532.4							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	20-Jul-14	8	568.6							
2014	20-Jul-14	9	613.7							
2014	20-Jul-14	10	875.2							
2014	20-Jul-14	11	1050.8							
2014	20-Jul-14	12	1166.3							
2014	20-Jul-14	13	1424.1							
2014	20-Jul-14	14	1831.1							
2014	20-Jul-14	15	1296.3							
2014	20-Jul-14	16	960							
2014	20-Jul-14	17	917.4							
2014	20-Jul-14	18	960							
2014	20-Jul-14	19	978.6							
2014	20-Jul-14	20	933.8				0			
2014	20-Jul-14	21	673.6				0			
2014	20-Jul-14	22	772.3				364.1			
2014	20-Jul-14	23	1336.1				473.5			
2014	21-Jul-14	0	1141.1				557.5			
2014	21-Jul-14	1	881.1				558.3			
2014	21-Jul-14	2	821				562.2			
2014	21-Jul-14	3	653.4				731.6			
2014	21-Jul-14	4	675.8				1052.3			
2014	21-Jul-14	5	845.1				2035.7			
2014	21-Jul-14	6	541.1				2433.4			
2014	21-Jul-14	7	411.7				2616.5			
2014	21-Jul-14	8	289.9				2872.7			
2014	21-Jul-14	9	279.7				3303.7			
2014	21-Jul-14	10	298.4				3519.3			
2014	21-Jul-14	11	260				3489.3			
2014	21-Jul-14	12	281.9				3782.2			
2014	21-Jul-14	13	334.8				3939.1			
2014	21-Jul-14	14	379.7				4131.2			
2014	21-Jul-14	15	304.2				4182.9			
2014	21-Jul-14	16	473.3				4256.2			
2014	21-Jul-14	17	422.5				4203			0
2014	21-Jul-14	18	479.8				4080.4			1.6
2014	21-Jul-14	19	760.6	0		0	4073.2			0.6
2014	21-Jul-14	20	925.6	0		0	4220.1			0.6
2014	21-Jul-14	21	1016.6	0		0	4052.4			0.6
2014	21-Jul-14	22	634.5	0		0	3525.5			0.6
2014	21-Jul-14	23	473.3	4.9		0	3030.2			0.7
2014	22-Jul-14	0	365.5	3.6		0	2636			0.7
2014	22-Jul-14	1	269.6	1.2		0	2632.3			0.7
2014	22-Jul-14	2	294.5	0		0	2634.2			0.7
2014	22-Jul-14	3	301.3	0		141.9	2640.2			0.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	22-Jul-14	4	277	2.4		760.2	2629.5			0.6
2014	22-Jul-14	5	289.5	107.6		785.9	2639.5			0.6
2014	22-Jul-14	6	298.2	455.5		771.3	2776.8			41.5
2014	22-Jul-14	7	300.3	422.9		730.6	2636.4			146.8
2014	22-Jul-14	8	351.1	515.7		728.2	2735.5			306
2014	22-Jul-14	9	1370.8	1130.8		867.4	2943.5			474.8
2014	22-Jul-14	10	1924.3	419.8		839.9	3247			494.4
2014	22-Jul-14	11	1090.8	386.9		818	3318.9			615.5
2014	22-Jul-14	12	1033.6	528.7		1041.6	3920.8			486.4
2014	22-Jul-14	13	1043.7	564.8		1743.4	4358.8			496.7
2014	22-Jul-14	14	1040.6	535.2		1776.5	4417.6			487.9
2014	22-Jul-14	15	934.1	553.4		1894.6	4419.4			558.5
2014	22-Jul-14	16	923.6	729.4		1944.1	4506.1			698.1
2014	22-Jul-14	17	1014.8	1108.3		1447.2	4512.9			767.6
2014	22-Jul-14	18	1084.9	1309.4			4392.6			735.7
2014	22-Jul-14	19	1066.4	1419.2			4381.6			756.6
2014	22-Jul-14	20	1092.7	1594.7			4468.2			759.3
2014	22-Jul-14	21	1120.2	927			4419.9			717.2
2014	22-Jul-14	22	1102.7	840.1			4163.7			652.1
2014	22-Jul-14	23	985.2	765.7			3598			545
2014	23-Jul-14	0	790.4	595.6			3055.9			443.9
2014	23-Jul-14	1	548.7	477.3	0.065		2762.5			451
2014	23-Jul-14	2	438.8	289.7	0.078		2727			452.3
2014	23-Jul-14	3	304	288.1	0.078		2742.2			471.9
2014	23-Jul-14	4	348.3	411.6	0.077		2752.5			489.9
2014	23-Jul-14	5	563.1	383.6	0.064		2754.1			486.8
2014	23-Jul-14	6	404.5	374.8	0.051		2777.3			497.1
2014	23-Jul-14	7	309.6	365.6	0.056		3065.1			508.5
2014	23-Jul-14	8	275.8	288.9	0.176		3262.1			501.7
2014	23-Jul-14	9	254.8	291.4	0.247		3240.7			493.2
2014	23-Jul-14	10	353	349.2	0.244		3592.4			566.5
2014	23-Jul-14	11	463.5	519.3	0.248		3943.2			561
2014	23-Jul-14	12	758.9	763.4	0.343		4205.6			664.7
2014	23-Jul-14	13	1132.6	1583.1	0.25		4229			574.6
2014	23-Jul-14	14	1106.2	997.6	0.421		4522.9			675
2014	23-Jul-14	15	1136.1	1091	0.77		4549.1			734.1
2014	23-Jul-14	16	1095.7	1089.3	0.84		4504.9			824.7
2014	23-Jul-14	17	1019	1028.8	0.713		4401.6			759
2014	23-Jul-14	18	1082.9	1131.8	0.306		4315.4			713.9
2014	23-Jul-14	19	1118.7	1065.4			4326.6			716.7
2014	23-Jul-14	20	1020.1	953.4			4311.8			707.1
2014	23-Jul-14	21	779.6	757.5			4102.7			603.1
2014	23-Jul-14	22	544	590.1			3619.5			432.3
2014	23-Jul-14	23	524.2	512.8			3207.4			313.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	24-Jul-14	0	428.3	688.9			2861.1			177.4
2014	24-Jul-14	1	56.734	623.9			2784.7			26.69
2014	24-Jul-14	2		600.1			2750.9			
2014	24-Jul-14	3		613.8			2748.9			
2014	24-Jul-14	4		538.1			2770			
2014	24-Jul-14	5		430.4			2758.6			
2014	24-Jul-14	6		316.6			2806			
2014	24-Jul-14	7		281.4			2960.8			
2014	24-Jul-14	8		276.3			3075.1			
2014	24-Jul-14	9		222.6			3245			
2014	24-Jul-14	10		237.9			3009.5			
2014	24-Jul-14	11		234.4			2929			
2014	24-Jul-14	12		202.7			3023.6			
2014	24-Jul-14	13		243.8			3144.4			
2014	24-Jul-14	14		243.1			3158.8			
2014	24-Jul-14	15		205.8			3067.9			
2014	24-Jul-14	16		249.3			3390.1			
2014	24-Jul-14	17		293.5			3579.6			
2014	24-Jul-14	18		268.4			3368.8			
2014	24-Jul-14	19		254			2929.7			
2014	24-Jul-14	20		238.6			2821.2			
2014	24-Jul-14	21		211.6			2755.5			
2014	24-Jul-14	22		209.9			2733			
2014	24-Jul-14	23		233.3			2743.9			
2014	25-Jul-14	0		224.2			2756.2			
2014	25-Jul-14	1		235			2728.3			
2014	25-Jul-14	2		224.7			2732.5			
2014	25-Jul-14	3		211.7			2740.7			
2014	25-Jul-14	4		219.4			2738.4			
2014	25-Jul-14	5		190.3			2722.8			
2014	25-Jul-14	6		206			2732.5			
2014	25-Jul-14	7		211.2			2673.4			
2014	25-Jul-14	8		221			2722			
2014	25-Jul-14	9		199.4			2822.1			
2014	25-Jul-14	10		171.6			2840.4			
2014	25-Jul-14	11		190.7			2840.5			
2014	25-Jul-14	12		167.9			2881.3			
2014	25-Jul-14	13		152			3008.1			
2014	25-Jul-14	14		206.8			3491.2			
2014	25-Jul-14	15		225.8			4057			
2014	25-Jul-14	16		294			4155.3			
2014	25-Jul-14	17		330.6			4053.1			
2014	25-Jul-14	18		277.7			3485.9			
2014	25-Jul-14	19		198.5			3057.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Jul-14	20		146.8			3268			
2014	25-Jul-14	21		147.3			2837.9			
2014	25-Jul-14	22		182.9			2746.5			
2014	25-Jul-14	23		164.7			2708.9			
2014	26-Jul-14	0		167.2			2713			
2014	26-Jul-14	1		181			2727.9			
2014	26-Jul-14	2		164.9			2724.6			
2014	26-Jul-14	3		181			2696.2			
2014	26-Jul-14	4		181.1			2694.7			
2014	26-Jul-14	5		614.3			2710			
2014	26-Jul-14	6		1218.1			2708.2			
2014	26-Jul-14	7		1690.9			2660.1			
2014	26-Jul-14	8		1795.6			2694.2			
2014	26-Jul-14	9		1640.8			2718.3			
2014	26-Jul-14	10		1526.3			2842.4			
2014	26-Jul-14	11		1510.8			2853.5			
2014	26-Jul-14	12		1228.4			2940			
2014	26-Jul-14	13		1027.6			3445.7			
2014	26-Jul-14	14		1150.7			3801.6			
2014	26-Jul-14	15		1525.4			4115.8			
2014	26-Jul-14	16		1390.1			4153.2			
2014	26-Jul-14	17		1264.2			4001.5			
2014	26-Jul-14	18		955.6			3515.4			
2014	26-Jul-14	19		720.4			3282.2			
2014	26-Jul-14	20		986.4			3684.4			
2014	26-Jul-14	21		636			3484.4			
2014	26-Jul-14	22		279			2918.6			
2014	26-Jul-14	23		337.6			2711.9			
2014	27-Jul-14	0		241.3			2877.5			
2014	27-Jul-14	1		208.7			2694.2			
2014	27-Jul-14	2		258.2			2688.4			
2014	27-Jul-14	3		222.1			2700.3			
2014	27-Jul-14	4		245.5			2662.6			
2014	27-Jul-14	5		371.5			2668			
2014	27-Jul-14	6		590.5			2683.6			
2014	27-Jul-14	7		920.7			2635.3			
2014	27-Jul-14	8		868.3			2716.1			
2014	27-Jul-14	9		798.8			2755.1			
2014	27-Jul-14	10		828.7			3292.7			
2014	27-Jul-14	11		897.3			3592.6			
2014	27-Jul-14	12		1007.7			3723.7			
2014	27-Jul-14	13		911.1			3822			
2014	27-Jul-14	14		1065.9			4025.1			
2014	27-Jul-14	15		1293.8			4303.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	27-Jul-14	16		1450.5			4378.8			
2014	27-Jul-14	17		1329.9			4307.6			
2014	27-Jul-14	18		969.7			3995.3			
2014	27-Jul-14	19		1099.8			3936.1			
2014	27-Jul-14	20		1414.9			4085.1			
2014	27-Jul-14	21		959.4			3604.4			
2014	27-Jul-14	22		755.4			3028.5			
2014	27-Jul-14	23		461			2700.6			
2014	28-Jul-14	0		269			2690.9			
2014	28-Jul-14	1		215.2			2696.8			
2014	28-Jul-14	2		253.3			2681.2			
2014	28-Jul-14	3		211.3			2662.3			
2014	28-Jul-14	4		207			2680			
2014	28-Jul-14	5		229.9			2868.5			
2014	28-Jul-14	6		208.8			2926.2			
2014	28-Jul-14	7		304.3			3264.7			
2014	28-Jul-14	8		253.8			3238.3			
2014	28-Jul-14	9		243.5			3358			
2014	28-Jul-14	10		200.8			3015.6			
2014	28-Jul-14	11		197.6			2862.8			
2014	28-Jul-14	12		210.3			3056.6			
2014	28-Jul-14	13		233.8			3338.4			
2014	28-Jul-14	14		212.1			3213.8			
2014	28-Jul-14	15		211.1			3222.1			
2014	28-Jul-14	16		203			3068.7			
2014	28-Jul-14	17		194.8			2798.3			
2014	28-Jul-14	18		194.3			2725.9			
2014	28-Jul-14	19		182.8			2661.6			
2014	28-Jul-14	20		195.5	0.015		2690.5			
2014	28-Jul-14	21		188.9	0.083		2690.4			
2014	28-Jul-14	22		200.6	0.085		2656.9			
2014	28-Jul-14	23		189.7	0.085		2217			
2014	29-Jul-14	0		192	0.085		143.52			
2014	29-Jul-14	1		242.8	0.069					
2014	29-Jul-14	2		205.7	0.062					
2014	29-Jul-14	3		230.5	0.052					
2014	29-Jul-14	4		236.2	0.052					
2014	29-Jul-14	5		687.4	0.052					
2014	29-Jul-14	6		1218	0.052					
2014	29-Jul-14	7		751.8	0.048					
2014	29-Jul-14	8		479	0.015					
2014	29-Jul-14	9		356.4						
2014	29-Jul-14	10		245.3						
2014	29-Jul-14	11		193.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	29-Jul-14	12		190.4						
2014	29-Jul-14	13		170.4						
2014	29-Jul-14	14		272.4						
2014	29-Jul-14	15		406.8						
2014	29-Jul-14	16		462.9						
2014	29-Jul-14	17		589.9						
2014	29-Jul-14	18		576.6						
2014	29-Jul-14	19		501.7						
2014	29-Jul-14	20		372.6						
2014	29-Jul-14	21		277						
2014	29-Jul-14	22		185.3						
2014	29-Jul-14	23		195.4						
2014	30-Jul-14	0		182.8						
2014	30-Jul-14	1		192.6						
2014	30-Jul-14	2		196.6						
2014	30-Jul-14	3		185						
2014	30-Jul-14	4		246						
2014	30-Jul-14	5		840.8						
2014	30-Jul-14	6		1017.7						
2014	30-Jul-14	7		677.3						
2014	30-Jul-14	8		418.4						
2014	30-Jul-14	9		361.6						
2014	30-Jul-14	10		668.1						
2014	30-Jul-14	11		1053.2						
2014	30-Jul-14	12		1207.1						
2014	30-Jul-14	13		965.7						
2014	30-Jul-14	14		687.7						
2014	30-Jul-14	15		503.4						
2014	30-Jul-14	16		755.5						
2014	30-Jul-14	17		556.2						
2014	30-Jul-14	18		485.2						
2014	30-Jul-14	19		452.7						
2014	30-Jul-14	20		358.9						
2014	30-Jul-14	21		244.1						
2014	30-Jul-14	22		193.8						
2014	30-Jul-14	23		185.7						
2014	31-Jul-14	0		200.3						
2014	31-Jul-14	1		174.1						
2014	31-Jul-14	2		186.7						
2014	31-Jul-14	3		170.1						
2014	31-Jul-14	4		213.1						
2014	31-Jul-14	5		741						
2014	31-Jul-14	6		1241						
2014	31-Jul-14	7		915.7						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	31-Jul-14	8		585.5						
2014	31-Jul-14	9		425.8						
2014	31-Jul-14	10		368.3						
2014	31-Jul-14	11		481.7						
2014	31-Jul-14	12		597						
2014	31-Jul-14	13		828.3						
2014	31-Jul-14	14		792.6						
2014	31-Jul-14	15		834.3						
2014	31-Jul-14	16		1087.6						
2014	31-Jul-14	17		1094						
2014	31-Jul-14	18		1334						
2014	31-Jul-14	19		1471.8						
2014	31-Jul-14	20		1597.8						
2014	31-Jul-14	21		1232						
2014	31-Jul-14	22		949.6						
2014	31-Jul-14	23		662.2						
2014	1-Aug-14	0		416.6						
2014	1-Aug-14	1		285.4						
2014	1-Aug-14	2		247.1						
2014	1-Aug-14	3		243.7						
2014	1-Aug-14	4		213.7						
2014	1-Aug-14	5		493.5						
2014	1-Aug-14	6		719						
2014	1-Aug-14	7		553.5						
2014	1-Aug-14	8		473.2						
2014	1-Aug-14	9		505.8						
2014	1-Aug-14	10		739.3						
2014	1-Aug-14	11		1122.9						
2014	1-Aug-14	12		1307.4						
2014	1-Aug-14	13		1148.4						
2014	1-Aug-14	14		1015.8						
2014	1-Aug-14	15		737.1						
2014	1-Aug-14	16		771.6						
2014	1-Aug-14	17		925.1						
2014	1-Aug-14	18		651.6						
2014	1-Aug-14	19		602.6						
2014	1-Aug-14	20		486.5						
2014	1-Aug-14	21		352.7						
2014	1-Aug-14	22		298.5						
2014	1-Aug-14	23		285.4						
2014	2-Aug-14	0		303.9						
2014	2-Aug-14	1		301.8						
2014	2-Aug-14	2		295.6						
2014	2-Aug-14	3		294.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	2-Aug-14	4		308.2						
2014	2-Aug-14	5		343						
2014	2-Aug-14	6		336.1						
2014	2-Aug-14	7		309.3						
2014	2-Aug-14	8		348.1						
2014	2-Aug-14	9		310.6						
2014	2-Aug-14	10		350						
2014	2-Aug-14	11		475.3						
2014	2-Aug-14	12		386.3						
2014	2-Aug-14	13		283.3						
2014	2-Aug-14	14		324.1						
2014	2-Aug-14	15		385.1						
2014	2-Aug-14	16		518.2						
2014	2-Aug-14	17		597.8						
2014	2-Aug-14	18		422.9						
2014	2-Aug-14	19		517						
2014	2-Aug-14	20		540.9						
2014	2-Aug-14	21		660.9						
2014	2-Aug-14	22		768.8						
2014	2-Aug-14	23		788.6						
2014	3-Aug-14	0		590.9						
2014	3-Aug-14	1		454						
2014	3-Aug-14	2		308.9						
2014	3-Aug-14	3		339.2						
2014	3-Aug-14	4		289.8						
2014	3-Aug-14	5		317						
2014	3-Aug-14	6		272.2						
2014	3-Aug-14	7		348.7						
2014	3-Aug-14	8		323.7						
2014	3-Aug-14	9		261						
2014	3-Aug-14	10		284.9						
2014	3-Aug-14	11		286						
2014	3-Aug-14	12		372.2						
2014	3-Aug-14	13		555.4						
2014	3-Aug-14	14		556.8						
2014	3-Aug-14	15		954.3						
2014	3-Aug-14	16		1066.8						
2014	3-Aug-14	17		1301.7						
2014	3-Aug-14	18		1254.8						
2014	3-Aug-14	19		1059.9						
2014	3-Aug-14	20		1207.9						
2014	3-Aug-14	21		647.9						
2014	3-Aug-14	22		361.3						
2014	3-Aug-14	23		246.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	4-Aug-14	0		156.2						
2014	4-Aug-14	1		102.6						
2014	4-Aug-14	2		110.8						
2014	4-Aug-14	3		101.7						
2014	4-Aug-14	4		125.9						
2014	4-Aug-14	5		297.2						
2014	4-Aug-14	6		353.6						
2014	4-Aug-14	7		232.9						
2014	4-Aug-14	8		147.5						
2014	4-Aug-14	9		94.5						
2014	4-Aug-14	10		81						
2014	4-Aug-14	11		99.7						
2014	4-Aug-14	12		111.5						
2014	4-Aug-14	13		195.2						
2014	4-Aug-14	14		325.9						
2014	4-Aug-14	15		435.8						
2014	4-Aug-14	16		633.9						
2014	4-Aug-14	17		1145.7						
2014	4-Aug-14	18		922						
2014	4-Aug-14	19		808						
2014	4-Aug-14	20		768						
2014	4-Aug-14	21		431						
2014	4-Aug-14	22		459						
2014	4-Aug-14	23		481.1						
2014	5-Aug-14	0		304.5						
2014	5-Aug-14	1		160.6						
2014	5-Aug-14	2		96						
2014	5-Aug-14	3		121.8						
2014	5-Aug-14	4		226.8						
2014	5-Aug-14	5		854.9						
2014	5-Aug-14	6		1284						
2014	5-Aug-14	7		1008.4						
2014	5-Aug-14	8		899.5						
2014	5-Aug-14	9		801						
2014	5-Aug-14	10		627.8						
2014	5-Aug-14	11		466.8						
2014	5-Aug-14	12		493.3						
2014	5-Aug-14	13		678.4						
2014	5-Aug-14	14		953.8						
2014	5-Aug-14	15		1171						
2014	5-Aug-14	16		1131.1						
2014	5-Aug-14	17		1246						
2014	5-Aug-14	18		1238.9						
2014	5-Aug-14	19		1358						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	5-Aug-14	20		1330.6						
2014	5-Aug-14	21		923.8						
2014	5-Aug-14	22		844.7						
2014	5-Aug-14	23		586.3						
2014	6-Aug-14	0		417.3						
2014	6-Aug-14	1		222.7						
2014	6-Aug-14	2		207.2						
2014	6-Aug-14	3		210.3						
2014	6-Aug-14	4		198						
2014	6-Aug-14	5		203.8						
2014	6-Aug-14	6		169.6						
2014	6-Aug-14	7		194.7						
2014	6-Aug-14	8		174.9						
2014	6-Aug-14	9		193.5						
2014	6-Aug-14	10		205						
2014	6-Aug-14	11		261.8						
2014	6-Aug-14	12		257.5						
2014	6-Aug-14	13		518.7						
2014	6-Aug-14	14		1133.8						
2014	6-Aug-14	15		1423.7						
2014	6-Aug-14	16		1145						
2014	6-Aug-14	17		858.8						
2014	6-Aug-14	18		931.5						
2014	6-Aug-14	19		826.2						
2014	6-Aug-14	20		661.5						
2014	6-Aug-14	21		443.5						
2014	6-Aug-14	22		613.4						
2014	6-Aug-14	23		392.6						
2014	7-Aug-14	0		235.8						
2014	7-Aug-14	1		206.6						
2014	7-Aug-14	2		227						
2014	7-Aug-14	3		306.9						
2014	7-Aug-14	4		1027.8						
2014	7-Aug-14	5		998.9						
2014	7-Aug-14	6		697.9						
2014	7-Aug-14	7		683.3						
2014	7-Aug-14	8		677						
2014	7-Aug-14	9		568.2						
2014	7-Aug-14	10		546.5						
2014	7-Aug-14	11		485.5						
2014	7-Aug-14	12		581.2						
2014	7-Aug-14	13		847.9						
2014	7-Aug-14	14		943.8						
2014	7-Aug-14	15		960.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	7-Aug-14	16		952.5						
2014	7-Aug-14	17		970.1						
2014	7-Aug-14	18		982.1						
2014	7-Aug-14	19		1018.1						
2014	7-Aug-14	20		1040.4						
2014	7-Aug-14	21		1055.3						
2014	7-Aug-14	22		1086.9						
2014	7-Aug-14	23		1153.8						
2014	8-Aug-14	0		1150						
2014	8-Aug-14	1		1319.8						
2014	8-Aug-14	2		1320.4						
2014	8-Aug-14	3		1274.3						
2014	8-Aug-14	4		1219.1						
2014	8-Aug-14	5		1170.4						
2014	8-Aug-14	6		1183.1						
2014	8-Aug-14	7		1309.7						
2014	8-Aug-14	8		1254.3						
2014	8-Aug-14	9		1147.9						
2014	8-Aug-14	10		978.1						
2014	8-Aug-14	11		989.3						
2014	8-Aug-14	12		835.4						
2014	8-Aug-14	13		740.3						
2014	8-Aug-14	14		636.7						
2014	8-Aug-14	15		638						
2014	8-Aug-14	16		596.5						
2014	8-Aug-14	17		514						
2014	8-Aug-14	18		552.8						
2014	8-Aug-14	19		561.4						
2014	8-Aug-14	20		492.2						
2014	8-Aug-14	21		505.7						
2014	8-Aug-14	22		521						
2014	8-Aug-14	23		743.7						
2014	9-Aug-14	0		578.5						
2014	9-Aug-14	1		362.6						
2014	9-Aug-14	2		327.3						
2014	9-Aug-14	3		329						
2014	9-Aug-14	4		346.2						
2014	9-Aug-14	5		465.7						
2014	9-Aug-14	6		553.3						
2014	9-Aug-14	7		340.4						
2014	9-Aug-14	8		472.4						
2014	9-Aug-14	9		522.4						
2014	9-Aug-14	10		972.9						
2014	9-Aug-14	11		856.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	9-Aug-14	12		532.5						
2014	9-Aug-14	13		538.5						
2014	9-Aug-14	14		548.2						
2014	9-Aug-14	15		676.5						
2014	9-Aug-14	16		488.9						
2014	9-Aug-14	17		457.9						
2014	9-Aug-14	18		395						
2014	9-Aug-14	19		595.1						
2014	9-Aug-14	20		439.6						
2014	9-Aug-14	21		350						
2014	9-Aug-14	22		348.1						
2014	9-Aug-14	23		421.7						
2014	10-Aug-14	0		428						
2014	10-Aug-14	1		473.4						
2014	10-Aug-14	2		567.9						
2014	10-Aug-14	3		511.8						
2014	10-Aug-14	4		366.7						
2014	10-Aug-14	5		435.8						
2014	10-Aug-14	6		404.3						
2014	10-Aug-14	7		927						
2014	10-Aug-14	8		1151.9						
2014	10-Aug-14	9		1163.5						
2014	10-Aug-14	10		1254.6						
2014	10-Aug-14	11		1384						
2014	10-Aug-14	12		1398.2						
2014	10-Aug-14	13		1561.2						
2014	10-Aug-14	14		1384.1						
2014	10-Aug-14	15		1087						
2014	10-Aug-14	16		1259.5						
2014	10-Aug-14	17		1325						
2014	10-Aug-14	18		1284.6						
2014	10-Aug-14	19		1178.1						
2014	10-Aug-14	20		1133.6						
2014	10-Aug-14	21		1211.9						
2014	10-Aug-14	22		965.1						
2014	10-Aug-14	23		641.7						
2014	11-Aug-14	0		366.2						
2014	11-Aug-14	1		230.8						
2014	11-Aug-14	2		155.6						
2014	11-Aug-14	3		420.9						
2014	11-Aug-14	4		1070						
2014	11-Aug-14	5		1100.8						
2014	11-Aug-14	6		909.9						
2014	11-Aug-14	7		1080.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	11-Aug-14	8		920						
2014	11-Aug-14	9		647.8						
2014	11-Aug-14	10		417.4						
2014	11-Aug-14	11		339.3						
2014	11-Aug-14	12		311.6						
2014	11-Aug-14	13		307.9						
2014	11-Aug-14	14		298.9						
2014	11-Aug-14	15		286.4						
2014	11-Aug-14	16		278.2						
2014	11-Aug-14	17		291.7						
2014	11-Aug-14	18		263.7						
2014	11-Aug-14	19		195.3						
2014	11-Aug-14	20		158.9						
2014	11-Aug-14	21		148.5						
2014	11-Aug-14	22		149.5						
2014	11-Aug-14	23		152.6						
2014	12-Aug-14	0		148						
2014	12-Aug-14	1		149.9						
2014	12-Aug-14	2		143.5						
2014	12-Aug-14	3		147.2						
2014	12-Aug-14	4		424.2						
2014	12-Aug-14	5		881.2						
2014	12-Aug-14	6		863.9						
2014	12-Aug-14	7		689.6						
2014	12-Aug-14	8		670.7						
2014	12-Aug-14	9		664.3						
2014	12-Aug-14	10		604.3						
2014	12-Aug-14	11		449.7						
2014	12-Aug-14	12		440.5						
2014	12-Aug-14	13		396						
2014	12-Aug-14	14		442.8						
2014	12-Aug-14	15		535.9						
2014	12-Aug-14	16		718.5						
2014	12-Aug-14	17		868.9						
2014	12-Aug-14	18		478.1						
2014	12-Aug-14	19		348.3						
2014	12-Aug-14	20		283.3						
2014	12-Aug-14	21		193.6						
2014	12-Aug-14	22		149.7						
2014	12-Aug-14	23		162.8						
2014	13-Aug-14	0		140.1						
2014	13-Aug-14	1		135.8						
2014	13-Aug-14	2		134.9						
2014	13-Aug-14	3		128.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	13-Aug-14	4		263.2						
2014	13-Aug-14	5		431.8						
2014	13-Aug-14	6		500.5						
2014	13-Aug-14	7		337.6						
2014	13-Aug-14	8		214.1						
2014	13-Aug-14	9		141		0				
2014	13-Aug-14	10		110.5		0				
2014	13-Aug-14	11		155.5		0				
2014	13-Aug-14	12		355.2		0				
2014	13-Aug-14	13		762.8		0				
2014	13-Aug-14	14		889.1		0				
2014	13-Aug-14	15		777.9		0				
2014	13-Aug-14	16		712		0				
2014	13-Aug-14	17		806.7						
2014	13-Aug-14	18		886.4						
2014	13-Aug-14	19		647.7						
2014	13-Aug-14	20		456.5						
2014	13-Aug-14	21		303.9						
2014	13-Aug-14	22		217.7						
2014	13-Aug-14	23		163.7						
2014	14-Aug-14	0		153.2						
2014	14-Aug-14	1		134.3						
2014	14-Aug-14	2		123.5						
2014	14-Aug-14	3		125.2						
2014	14-Aug-14	4		208.6						
2014	14-Aug-14	5		504.8						
2014	14-Aug-14	6		534.5						
2014	14-Aug-14	7		514.7						
2014	14-Aug-14	8		405.3						
2014	14-Aug-14	9		293.9						
2014	14-Aug-14	10		228.5						
2014	14-Aug-14	11		167.1						
2014	14-Aug-14	12		166.9						
2014	14-Aug-14	13		193.4						
2014	14-Aug-14	14		290.8						
2014	14-Aug-14	15		404.6						
2014	14-Aug-14	16		603.7						
2014	14-Aug-14	17		617						
2014	14-Aug-14	18		844.6						
2014	14-Aug-14	19		519.4						
2014	14-Aug-14	20		365.3						
2014	14-Aug-14	21		270.6						
2014	14-Aug-14	22		206.3						
2014	14-Aug-14	23		131.4						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	15-Aug-14	0		132						
2014	15-Aug-14	1		142.3						
2014	15-Aug-14	2		145.5						
2014	15-Aug-14	3		144.4						
2014	15-Aug-14	4		264.5						
2014	15-Aug-14	5		516.3						
2014	15-Aug-14	6		483.1						
2014	15-Aug-14	7		357.9						
2014	15-Aug-14	8		276.9						
2014	15-Aug-14	9		310.5						
2014	15-Aug-14	10		322						
2014	15-Aug-14	11		437.1						
2014	15-Aug-14	12		688.4						
2014	15-Aug-14	13		1000						
2014	15-Aug-14	14		1190.5						
2014	15-Aug-14	15		1192.1						
2014	15-Aug-14	16		1174.5						
2014	15-Aug-14	17		1194.8						
2014	15-Aug-14	18		1164.3						
2014	15-Aug-14	19		1039.2						
2014	15-Aug-14	20		1124.8						
2014	15-Aug-14	21		956.9						
2014	15-Aug-14	22		421.4						
2014	15-Aug-14	23		634.1						
2014	16-Aug-14	0		366.7						
2014	16-Aug-14	1		282.3						
2014	16-Aug-14	2		196.5						
2014	16-Aug-14	3		148						
2014	16-Aug-14	4		142.1						
2014	16-Aug-14	5		140.5						
2014	16-Aug-14	6		127.6						
2014	16-Aug-14	7		155						
2014	16-Aug-14	8		144.1						
2014	16-Aug-14	9		148.1						
2014	16-Aug-14	10		185.7						
2014	16-Aug-14	11		341.1						
2014	16-Aug-14	12		442.6						
2014	16-Aug-14	13		752.3						
2014	16-Aug-14	14		1097.5						
2014	16-Aug-14	15		1325						
2014	16-Aug-14	16		1301.5						
2014	16-Aug-14	17		1280.2						
2014	16-Aug-14	18		1083.7						
2014	16-Aug-14	19		999.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	16-Aug-14	20	0	847.4						
2014	16-Aug-14	21	0	672.4						
2014	16-Aug-14	22	0	540.3						
2014	16-Aug-14	23	1.7	395.8						
2014	17-Aug-14	0	0	356.5						
2014	17-Aug-14	1	0	271.6						
2014	17-Aug-14	2	0	229.8						
2014	17-Aug-14	3	0	196.9						
2014	17-Aug-14	4	0	183.3						
2014	17-Aug-14	5	0	188.1						
2014	17-Aug-14	6	2.7	332.7						
2014	17-Aug-14	7	1.8	600.9						
2014	17-Aug-14	8	0	521.7						
2014	17-Aug-14	9	0	395.4						
2014	17-Aug-14	10	0	457						
2014	17-Aug-14	11	0	467.4						
2014	17-Aug-14	12	0	718						
2014	17-Aug-14	13	0	1083.1						0
2014	17-Aug-14	14	0	1485.5						0
2014	17-Aug-14	15	0	1538.5						0
2014	17-Aug-14	16	0	1537.1						0
2014	17-Aug-14	17	0	1619.9						0
2014	17-Aug-14	18	0	1467.4						0
2014	17-Aug-14	19	0	1704						0
2014	17-Aug-14	20	0	1742.1						0
2014	17-Aug-14	21	0	1531.8						0
2014	17-Aug-14	22	0	1610.8						0
2014	17-Aug-14	23	32.4	1279.3						0
2014	18-Aug-14	0	58.9	1058.6						0
2014	18-Aug-14	1	142.8	779.5						0
2014	18-Aug-14	2	220.8	583.2						0
2014	18-Aug-14	3	255.9	445.8						0
2014	18-Aug-14	4	273.7	359.9						10.2
2014	18-Aug-14	5	292.4	362.9						66.1
2014	18-Aug-14	6	275.3	330.6						125.1
2014	18-Aug-14	7	406.8	456.1						198.1
2014	18-Aug-14	8	728.1	334.1						219.8
2014	18-Aug-14	9	361.5	361.3						321.3
2014	18-Aug-14	10	436.8	333.5	0.043					447.3
2014	18-Aug-14	11	712.2	373.9	0.067					624.3
2014	18-Aug-14	12	513.7	513.4	0.067					696.8
2014	18-Aug-14	13	312.7	847.6	0.076					708.9
2014	18-Aug-14	14	550.8	1225	0.076					685.4
2014	18-Aug-14	15	634.6	1073.5	0.038					646.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	18-Aug-14	16	993.8	1057.4	0.045					634.4
2014	18-Aug-14	17	1150.7	1289.5	0.061					586.1
2014	18-Aug-14	18	958.4	798.6	0.068					442.1
2014	18-Aug-14	19	480.5	468.6	0.067					485.1
2014	18-Aug-14	20	785.4	681	0.055					485.9
2014	18-Aug-14	21	1013.1	791.4	0.052					487.3
2014	18-Aug-14	22	804.9	648.9	0.046					486.5
2014	18-Aug-14	23	560.2	475.8	0.036					493.2
2014	19-Aug-14	0	440.5	339.9	0.036					494.6
2014	19-Aug-14	1	294.6	254.1	0.044					493.4
2014	19-Aug-14	2	265.2	191.8	0.052					492.4
2014	19-Aug-14	3	207.8	155.6	0.052					514.1
2014	19-Aug-14	4	172.7	145.2	0.053					654.3
2014	19-Aug-14	5	161.5	164.2	0.053					695.8
2014	19-Aug-14	6	175.2	148.3	0.049					756.1
2014	19-Aug-14	7	166.1	160.1	0.037					760.5
2014	19-Aug-14	8	123.5	157	0.026					749.4
2014	19-Aug-14	9	164.2	162.4	0.051					743.5
2014	19-Aug-14	10	160.1	145.1	0.051					604.5
2014	19-Aug-14	11	144.5	138	0.05					116.725
2014	19-Aug-14	12	139.7	118.5	0.051					
2014	19-Aug-14	13	155.8	93.1	0.051					
2014	19-Aug-14	14	163.3	131.2	0.051					
2014	19-Aug-14	15	186	211.8	0.051					
2014	19-Aug-14	16	327.5	382.5	0.052					0
2014	19-Aug-14	17	425.2	566.3	0.052					0
2014	19-Aug-14	18	384.7	576.3	0.052					0
2014	19-Aug-14	19	421.3	573.4	0.053					0
2014	19-Aug-14	20	610.1	812.3	0.052					0
2014	19-Aug-14	21	691.3	823.2	0.052					3.1
2014	19-Aug-14	22	669.5	744.2	0.051				0	115.3
2014	19-Aug-14	23	640	575	0.051				0	298.9
2014	20-Aug-14	0	529.8	448	0.051				0	449.8
2014	20-Aug-14	1	388.9	444.7	0.051				0	508.4
2014	20-Aug-14	2	313.1	311	0.051				0	498.3
2014	20-Aug-14	3	263.1	221.5	0.052				0	485
2014	20-Aug-14	4	259.1	232.7	0.052				0	485.2
2014	20-Aug-14	5	257.7	214.8	0.052				0	536.1
2014	20-Aug-14	6	249.3	261.7	0.052				7.6	713.8
2014	20-Aug-14	7	272.5	253.2	0.052				15.2	708
2014	20-Aug-14	8	279	214.3	0.045				33.7	709.7
2014	20-Aug-14	9	254.2	253.4	0.037				48.4	839.5
2014	20-Aug-14	10	272.8	247.9	0.051				40.3	882.7
2014	20-Aug-14	11	283.7	237.1	0.051				40.9	890.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	20-Aug-14	12	338.6	271.2	0.052				92.6	880.3
2014	20-Aug-14	13	458.9	370	0.052				45.8	881.4
2014	20-Aug-14	14	466.2	283	0.052				45.9	1096.3
2014	20-Aug-14	15	543.5	244.4	0.049				25.056	1350.3
2014	20-Aug-14	16	615.3	289	0.041					1295.1
2014	20-Aug-14	17	516.4	269.2	0.052					1236.3
2014	20-Aug-14	18	447.7	280.4	0.052					1187.8
2014	20-Aug-14	19	453.8	292.6	0.051					1011.1
2014	20-Aug-14	20	439.1	325.3	0.051			478.676		973.6
2014	20-Aug-14	21	367.9	292.7	0.078			858		860.4
2014	20-Aug-14	22	356.7	280.6	0.078			863.4		657.2
2014	20-Aug-14	23	328.9	280.5	0.078			948.1		534.9
2014	21-Aug-14	0	252.8	278.4	0.078			907.8		504.2
2014	21-Aug-14	1	239.3	282.7	0.066			725.6		531.6
2014	21-Aug-14	2	254.7	276.7	0.066			687.9		526.3
2014	21-Aug-14	3	266.7	285.7	0.066			688.2		536.9
2014	21-Aug-14	4	231.7	278.9	0.066			687.9		554.8
2014	21-Aug-14	5	230.2	265.8	0.064			718.6		576.7
2014	21-Aug-14	6	239.1	263.5	0.015			641.9		961.4
2014	21-Aug-14	7	264.3	256				885.3		958.5
2014	21-Aug-14	8	273	291.7				1879.2		1216
2014	21-Aug-14	9	248.9	277.9				2446.1		2219.7
2014	21-Aug-14	10	248.9	264.8				2451.4		2992
2014	21-Aug-14	11	386.1	281.6				2177.3		3372
2014	21-Aug-14	12	700.8	257.9				1706		3628.9
2014	21-Aug-14	13	1013.6	378.2				419.025		4137.8
2014	21-Aug-14	14	1559	462.9						4757.4
2014	21-Aug-14	15	787.4	359.7						4921.9
2014	21-Aug-14	16	692.4	286.8						4543.3
2014	21-Aug-14	17	567	260.8						3998.5
2014	21-Aug-14	18	368.7	258.1						3875.6
2014	21-Aug-14	19	302.7	295.9						4473.3
2014	21-Aug-14	20	385.5	323.6						4396.5
2014	21-Aug-14	21	281.3	256.7						4213.4
2014	21-Aug-14	22	397	264.4						3770.7
2014	21-Aug-14	23	340	261.2						3404.8
2014	22-Aug-14	0	188.7	264.7						2500.8
2014	22-Aug-14	1	139.5	277.5						1575.4
2014	22-Aug-14	2	108.9	272.1						1520.6
2014	22-Aug-14	3	272.2	261.3						1768.6
2014	22-Aug-14	4	268.1	267.7						1689.4
2014	22-Aug-14	5	285.3	259.4						1266.6
2014	22-Aug-14	6	276.3	266						1350.6
2014	22-Aug-14	7	289.7	303.2						1719

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	22-Aug-14	8	284.2	321.3						2382.9
2014	22-Aug-14	9	333.8	337.6						2962.3
2014	22-Aug-14	10	323.4	345.3						1681.6
2014	22-Aug-14	11	336.6	331.8						1791.7
2014	22-Aug-14	12	390.7	441.4						2014.3
2014	22-Aug-14	13	354.2	597.6						2659.5
2014	22-Aug-14	14	423.8	529.3						2407.2
2014	22-Aug-14	15	585.5	722.8						2482.8
2014	22-Aug-14	16	806.6	912.4						2306.4
2014	22-Aug-14	17	859.9	919.3						1923
2014	22-Aug-14	18	828.6	708.2						1920.1
2014	22-Aug-14	19	927.5	548.8						1750.7
2014	22-Aug-14	20	999.1	399.5						2123.8
2014	22-Aug-14	21	688.9	397.2						2322.6
2014	22-Aug-14	22	589.1	309.7						1957.3
2014	22-Aug-14	23	409.9	268						1117
2014	23-Aug-14	0	327.8	267.4						81.38
2014	23-Aug-14	1	246	261.9						
2014	23-Aug-14	2	208.7	261.9						
2014	23-Aug-14	3	196	242.2						
2014	23-Aug-14	4	194.6	241.9						
2014	23-Aug-14	5	309.7	334.4						
2014	23-Aug-14	6	571.7	631.1						
2014	23-Aug-14	7	706	973.3						
2014	23-Aug-14	8	732.5	968.4						
2014	23-Aug-14	9	749.7	941.5						
2014	23-Aug-14	10	935	1050.5						
2014	23-Aug-14	11	1044.7	1304.5						
2014	23-Aug-14	12	1386.7	1523.1						
2014	23-Aug-14	13	1322.2	1070.9						
2014	23-Aug-14	14	994.1	1062.2						
2014	23-Aug-14	15	924.2	1462.2						
2014	23-Aug-14	16	1020.7	1015.2						
2014	23-Aug-14	17	1040.8	1088.8						
2014	23-Aug-14	18	1063.6	1289						
2014	23-Aug-14	19	1075.8	1532.9						
2014	23-Aug-14	20	1019	1365.9						
2014	23-Aug-14	21	641.2	1154.7						
2014	23-Aug-14	22	441.5	859.3						
2014	23-Aug-14	23	283.5	637.4						
2014	24-Aug-14	0	186.4	470.2	0.06					
2014	24-Aug-14	1	125.7	324.1	0.064					
2014	24-Aug-14	2	89	237.8	0.066					
2014	24-Aug-14	3	93.5	164.5	0.076					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	24-Aug-14	4	93.5	145.4	0.076					
2014	24-Aug-14	5	94.3	153.4	0.059					
2014	24-Aug-14	6	100.4	138.7	0.057					
2014	24-Aug-14	7	110.7	147.7	0.064					
2014	24-Aug-14	8	115	160.9	0.064		0			
2014	24-Aug-14	9	115	151.7	0.065		23			
2014	24-Aug-14	10	149.3	178.9	0.065		445			
2014	24-Aug-14	11	206.6	285.4	0.065		490.6			
2014	24-Aug-14	12	351.1	573.6	0.065		358.3			
2014	24-Aug-14	13	485.4	740.7	0.064		574.9			
2014	24-Aug-14	14	664.9	963.9	0.064		467.8			
2014	24-Aug-14	15	765.3	1036.4	0.064		386.5			
2014	24-Aug-14	16	789	842.5	0.064		417.2			
2014	24-Aug-14	17	801.7	591.1	0.065		457.4			
2014	24-Aug-14	18	820.1	676.3	0.06		544.9			
2014	24-Aug-14	19	815.2	791.4	0.05		954.4			
2014	24-Aug-14	20	652.5	767.3	0.05		770.7			
2014	24-Aug-14	21	536.4	589.6	0.054		682.9			
2014	24-Aug-14	22	391	373	0.064		687.1			
2014	24-Aug-14	23	469.7	252.7	0.064		684.8			
2014	25-Aug-14	0	399.2	165.1	0.064		685.4			
2014	25-Aug-14	1	197.6	147.3	0.064		676.4			
2014	25-Aug-14	2	153	137.3	0.064		678.5			
2014	25-Aug-14	3	110.6	130.8	0.064		671.5			
2014	25-Aug-14	4	114.4	127.9	0.064		674.1			
2014	25-Aug-14	5	168.8	234	0.064		808			
2014	25-Aug-14	6	270.4	413.3	0.064		1584.1			
2014	25-Aug-14	7	203.6	355.7	0.057		2231.5			
2014	25-Aug-14	8	189.1	303.2	0.039		2600.2			
2014	25-Aug-14	9	246.7	233.6			2841.1			
2014	25-Aug-14	10	449.2	264.7			3494			
2014	25-Aug-14	11	445.3	238.6			3671.6			
2014	25-Aug-14	12	552.7	224.3			3792.5			
2014	25-Aug-14	13	589.2	204.7			3842			
2014	25-Aug-14	14	884.9	314			4036.6			
2014	25-Aug-14	15	951.5	513			4393.2			
2014	25-Aug-14	16	959.3	733.6			4424.8			
2014	25-Aug-14	17	949.5	728.1			4405.2			
2014	25-Aug-14	18	786	501.7			4129.6			
2014	25-Aug-14	19	857.6	499.8			3933.6			
2014	25-Aug-14	20	605.3	310.8			3642.3			
2014	25-Aug-14	21	350.8	225.4			3102.4			
2014	25-Aug-14	22	214.8	141.7			2781.8			
2014	25-Aug-14	23	156.2	123.8			2783			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	26-Aug-14	0	123.1	128.4			2786.2			
2014	26-Aug-14	1	126.2	130			2750.7			
2014	26-Aug-14	2	107.8	118.3			2745.1			
2014	26-Aug-14	3	112.2	122.1			2732.2			
2014	26-Aug-14	4	113.9	118.3			2705.9			
2014	26-Aug-14	5	109.4	120.7			2708.9			
2014	26-Aug-14	6	98.7	103.9			2734.8			
2014	26-Aug-14	7	94	150.1			2680.3			
2014	26-Aug-14	8	89.6	126.8			2726.9			
2014	26-Aug-14	9	87.2	119.5			2778.2			
2014	26-Aug-14	10	91.5	125.9			3231.6			
2014	26-Aug-14	11	121	144.3			3849.4			
2014	26-Aug-14	12	130	134.9			3851.8			
2014	26-Aug-14	13	244.8	208.7			4204.2			
2014	26-Aug-14	14	543.2	427.8			4366.8			
2014	26-Aug-14	15	641.7	732.6			4364.6			
2014	26-Aug-14	16	635.2	902.4			4367.7			
2014	26-Aug-14	17	641.4	692.1			4364.7			
2014	26-Aug-14	18	624.6	472			4118.4			
2014	26-Aug-14	19	729	625.2			4225.2			
2014	26-Aug-14	20	720.2	645.7			4081.8			
2014	26-Aug-14	21	516.5	658.4			3637.8			
2014	26-Aug-14	22	404.3	531.8			3223.7			
2014	26-Aug-14	23	309.8	459.8			2731.7			
2014	27-Aug-14	0	234.1	373.7			2721.8			
2014	27-Aug-14	1	181.3	316.2			2726.1			
2014	27-Aug-14	2	147.3	262.5			2722.2		25.979	
2014	27-Aug-14	3	121.3	233.8			2708.5		33.8	
2014	27-Aug-14	4	120.5	198.9			2707.8		37	
2014	27-Aug-14	5	102	189.2			2726.6		36.7	
2014	27-Aug-14	6	123	195.3			2725.6		40.9	
2014	27-Aug-14	7	167.2	238.2			2677.2		40.8	
2014	27-Aug-14	8	169	291.2			2732.4		38.7	
2014	27-Aug-14	9	165.5	360.2			2752.4		41.3	
2014	27-Aug-14	10	243.3	409			2907.8		67.1	
2014	27-Aug-14	11	322.4	510.8			3332.8		126.6	
2014	27-Aug-14	12	631.3	964.7			4021.6		102.7	
2014	27-Aug-14	13	1146.6	1081.2			4272.1		92.1	
2014	27-Aug-14	14	1264.6	1539.2			4292.6		151.7	
2014	27-Aug-14	15	1081.4	1474.8			4309.1		167.6	
2014	27-Aug-14	16	1029.6	1443.5			4320.5		188.3	
2014	27-Aug-14	17	975.7	1405.1			4344.8		207.7	
2014	27-Aug-14	18	912.2	1366.1			4266.9		168.2	
2014	27-Aug-14	19	965.1	1419.3			4333.2		169.5	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	27-Aug-14	20	909.5	1288.7			4260.9		151.4	
2014	27-Aug-14	21	784.8	970.1			3792.7		151.6	
2014	27-Aug-14	22	611.3	637.5			3227.7		359.2	
2014	27-Aug-14	23	411.1	476.1			2828.6		450.1	
2014	28-Aug-14	0	270.2	347.1			2749		382.3	
2014	28-Aug-14	1	224.1	280.3			2715.1		591.7	
2014	28-Aug-14	2	161.6	211.5			2711		477.5	
2014	28-Aug-14	3	139.6	166.1			2719.7		406.9	
2014	28-Aug-14	4	140.9	153.7			2729.9		392.2	
2014	28-Aug-14	5	152.1	132.8			2929.7		359.2	
2014	28-Aug-14	6	162.6	132.3			2785.4		325.2	
2014	28-Aug-14	7	158.9	133.4			2885.4		541	
2014	28-Aug-14	8	144.3	126			2825.2		504.8	
2014	28-Aug-14	9	144.6	128.4			2939		327.5	
2014	28-Aug-14	10	146.4	129.9			3218.7		278.2	
2014	28-Aug-14	11	143.3	126.8			3229.8		264.8	
2014	28-Aug-14	12	155.5	132.2			3569		247.8	
2014	28-Aug-14	13	262.2	191.6			4080.5		326.8	
2014	28-Aug-14	14	350.3	222.8			4023.6		619.6	
2014	28-Aug-14	15	660.9	326.7			4111		624.4	
2014	28-Aug-14	16	853.5	712.5			4254.7		723	
2014	28-Aug-14	17	848.9	632.6			4161.7		798.9	
2014	28-Aug-14	18	643.6	499.1			3780.6		937.7	
2014	28-Aug-14	19	480	440.7			3414.2		1132.6	
2014	28-Aug-14	20	324.1	360.9			3116.6		1213.8	
2014	28-Aug-14	21	281	264.3			2778.1		712.3	
2014	28-Aug-14	22	221.6	237.2			2697.5		797.3	
2014	28-Aug-14	23	238.5	231.5			2730.5		309.3	
2014	29-Aug-14	0	186.2	247.2			2718.2		163.2	
2014	29-Aug-14	1	177.8	228.6			2704.7		112	
2014	29-Aug-14	2	167.6	212.5			2693.3		44.2	
2014	29-Aug-14	3	169.5	183.8			2688.2			
2014	29-Aug-14	4	160.9	154.4			2682			
2014	29-Aug-14	5	146	134.9			2671.3			
2014	29-Aug-14	6	178.4	80			2667.8			
2014	29-Aug-14	7	153.4	85.7			2626			
2014	29-Aug-14	8	118.3	78.6			2739.1			
2014	29-Aug-14	9	130.8	77.9			2689.3			
2014	29-Aug-14	10	220.1	96.2			2849.3			
2014	29-Aug-14	11	365.3	151.1			3112.3			
2014	29-Aug-14	12	533.5	233.9			3459.2			
2014	29-Aug-14	13	678.8	281.3			3728.9			
2014	29-Aug-14	14	849.7	375			3906.2			
2014	29-Aug-14	15	941.4	522.7			4144.9			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	29-Aug-14	16	861.4	963.2			4129.3			
2014	29-Aug-14	17	792.7	1050.6			4071.4			
2014	29-Aug-14	18	841.3	938.2			3888.5			
2014	29-Aug-14	19	751.7	735.9			3652.3			
2014	29-Aug-14	20	572.6	546.9			3400.9			
2014	29-Aug-14	21	639	346.4			3144.3			
2014	29-Aug-14	22	583	256.7			3179.4			
2014	29-Aug-14	23	373.6	196.2			2824			
2014	30-Aug-14	0	253.9	138.8			2558.6			
2014	30-Aug-14	1	218.1	146.4			2540.8			
2014	30-Aug-14	2	185.6	185.5			2555.1			
2014	30-Aug-14	3	215.4	216.6			2543.4			
2014	30-Aug-14	4	230.7	227.1			2540.2			
2014	30-Aug-14	5	258.5	263.1			2581.8			
2014	30-Aug-14	6	314.1	282.1			2663.1			
2014	30-Aug-14	7	327.2	285.6			2646.6			
2014	30-Aug-14	8	337.5	307.3			2520.2			
2014	30-Aug-14	9	280	312.2			2551.8			
2014	30-Aug-14	10	345.2	311.6			2774.3			
2014	30-Aug-14	11	423.7	442.5			3522.3			
2014	30-Aug-14	12	501.5	758.9			3845.4			
2014	30-Aug-14	13	658.4	1074			3976.2			
2014	30-Aug-14	14	1047.5	748.4			4027.6			
2014	30-Aug-14	15	1652.9	1138			4035.8			
2014	30-Aug-14	16	1811.4	1099			4057.5			
2014	30-Aug-14	17	907.6	815.5			3990.9			
2014	30-Aug-14	18	936.1	776.3			3896.1			
2014	30-Aug-14	19	1055.7	863			3886.9			
2014	30-Aug-14	20	1055.4	711			3893.7			
2014	30-Aug-14	21	807.9	822.1			3578.3			
2014	30-Aug-14	22	813.3	724			3209.3			
2014	30-Aug-14	23	1063.6	526.9			2905.6			
2014	31-Aug-14	0	706.3	360.4			2620.2			
2014	31-Aug-14	1	546.5	344.1			2566.3			
2014	31-Aug-14	2	389.9	354.5			2565.1			
2014	31-Aug-14	3	395.8	369			2536.4			
2014	31-Aug-14	4	393.7	312			2544.7			
2014	31-Aug-14	5	395.4	352.4			2548			
2014	31-Aug-14	6	407.7	320.8			2547.3			
2014	31-Aug-14	7	425.5	341.2			2561.6			
2014	31-Aug-14	8	422.4	316.6			2840.7			
2014	31-Aug-14	9	467	347.4			3098.5			
2014	31-Aug-14	10	517	371.1			3411.8			
2014	31-Aug-14	11	641.1	413.8			3621.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	31-Aug-14	12	1042.7	508.1			3836.1			
2014	31-Aug-14	13	1244.4	521.4			3894.7			
2014	31-Aug-14	14	1241.4	894.1			4041.1			
2014	31-Aug-14	15	1294.2	1494			4059.4			
2014	31-Aug-14	16	1104.4	901			4026.2			
2014	31-Aug-14	17	669.3	590.4			3857.3			
2014	31-Aug-14	18	420	594.6			3589.3			
2014	31-Aug-14	19	404.9	812.3			3611.3			
2014	31-Aug-14	20	322.5	629.1			3195.1			
2014	31-Aug-14	21	273.5	408.2			2931.6			
2014	31-Aug-14	22	202.5	333.7			2599			
2014	31-Aug-14	23	174.8	371			2610.5			
2014	1-Sep-14	0	174.1	357.8			2597.6			
2014	1-Sep-14	1	179.2	349.7			2588			
2014	1-Sep-14	2	159.7	364.6			2571.3			
2014	1-Sep-14	3	194.8	391.7			2585.5			
2014	1-Sep-14	4	379.1	337.7			2597.2			
2014	1-Sep-14	5	376.2	359.1			2608.4			
2014	1-Sep-14	6	352.2	322.2			2595.5			
2014	1-Sep-14	7	342	328.1			2543.7			
2014	1-Sep-14	8	344.3	318.8			2581.4			
2014	1-Sep-14	9	358	343.2			2793.5			
2014	1-Sep-14	10	440.8	347.8			3129.2			
2014	1-Sep-14	11	645.5	461.7			3603.4			
2014	1-Sep-14	12	627.1	613.6			3761.1			
2014	1-Sep-14	13	647.3	630.5			3849.7			
2014	1-Sep-14	14	973.1	796.6			3966.3			
2014	1-Sep-14	15	1102.3	961.4			3878.7			
2014	1-Sep-14	16	1041.5	748.6			4035.8			
2014	1-Sep-14	17	541.9	688.9			4048.3			
2014	1-Sep-14	18	415.8	538.9			3926.4			
2014	1-Sep-14	19	666.6	597.2			4039.4			
2014	1-Sep-14	20	797.6	649.5			4022.5			
2014	1-Sep-14	21	696.8	528.2			3850.1			
2014	1-Sep-14	22	642.4	596.2			3533.4			
2014	1-Sep-14	23	810	812.3	0.008		3155.3			0
2014	2-Sep-14	0	586.4	590.8	0.07		2858.4			0
2014	2-Sep-14	1	465.2	376.4	0.075		2616.7			0
2014	2-Sep-14	2	364.8	312.1	0.074		2596.1			0
2014	2-Sep-14	3	332.9	316.9	0.051		2597.9			0
2014	2-Sep-14	4	323.6	308.1	0.051		2581.5			0
2014	2-Sep-14	5	354.1	316.8	0.051		2717.8			0
2014	2-Sep-14	6	351.2	308.7	0.051		2885.9			0
2014	2-Sep-14	7	462.9	421.2	0.051		3231.5			0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	2-Sep-14	8	584	453.5	0.072		3526.7			0
2014	2-Sep-14	9	1000.1	687.3	0.168		3909.3			0
2014	2-Sep-14	10	1091	716.5	0.243		3898.3			0
2014	2-Sep-14	11	1180.5	763.2	0.234		4011.7			0
2014	2-Sep-14	12	1589.3	1090.1	0.319		4142.4			12.8
2014	2-Sep-14	13	1013.2	1581.6	0.305		4161.1			191.2
2014	2-Sep-14	14	1059.6	1574.5	0.284		4159.4			498.7
2014	2-Sep-14	15	1119.4	1442.5	0.269		4144.4			704.7
2014	2-Sep-14	16	1153.9	1291.9	0.235		4151.9			691.4
2014	2-Sep-14	17	1123.8	1238.1	0.231		4124.6			562.4
2014	2-Sep-14	18	1102.7	915.9	0.231		3994.2			490.2
2014	2-Sep-14	19	1172	924.5	0.232		4039.6			487.9
2014	2-Sep-14	20	939.6	697.5	0.134		3899.2			484.5
2014	2-Sep-14	21	535.5	975.5			3399.2			488.1
2014	2-Sep-14	22	361.5	708.7			2869.2			487.3
2014	2-Sep-14	23	529.4	638.6			2665.8			486.6
2014	3-Sep-14	0	413.1	432.3			2620.3			483.4
2014	3-Sep-14	1	350.5	347.7			2614.7			486.8
2014	3-Sep-14	2	337.8	348.7			2630.5			484.5
2014	3-Sep-14	3	332.8	351.4			2634.9			484.8
2014	3-Sep-14	4	330.4	348.4			2650.9			480.6
2014	3-Sep-14	5	344.1	327.4			2922.5			501.9
2014	3-Sep-14	6	307.5	300.5			2722.2			480.3
2014	3-Sep-14	7	293.6	300.6			2611.5			496.2
2014	3-Sep-14	8	297.1	290.5			2764.4			593.7
2014	3-Sep-14	9	301	299.7			2698.6			559.9
2014	3-Sep-14	10	305.1	326.5			3035.6			562.7
2014	3-Sep-14	11	317.3	306.2			3239.8			557.7
2014	3-Sep-14	12	392.6	419.8		0	3801.7			553.6
2014	3-Sep-14	13	499	532		0	3835.4			545.8
2014	3-Sep-14	14	797.8	839.2		0	4072.4			598
2014	3-Sep-14	15	1215.6	1120.2		0	4116.6			663.4
2014	3-Sep-14	16	1563.4	1115.6		0	4130.1			757.7
2014	3-Sep-14	17	1645.2	974.7		0	4157.5			808.5
2014	3-Sep-14	18	1448.3	799.7		0	4076.4			799.8
2014	3-Sep-14	19	1391.9	815.5		0	4074.8			851.8
2014	3-Sep-14	20	1305.7	573.1		0	3719.2			875.5
2014	3-Sep-14	21	1000.2	381.9		0	3331.2			872.2
2014	3-Sep-14	22	882.3	225.8		0	2852.1			809.5
2014	3-Sep-14	23	608.7	314.5		0	2690.3			761.5
2014	4-Sep-14	0	505.7	308.4		0	2656.8			531.2
2014	4-Sep-14	1	434	310		0	2654.5			467.8
2014	4-Sep-14	2	331.3	309.7		0	2662.3			358.8
2014	4-Sep-14	3	325.4	287.3		0	2973			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	4-Sep-14	4	333.3	334.2		0	3666.9			
2014	4-Sep-14	5	299.9	277		0	3894.7			
2014	4-Sep-14	6	275.5	221.2		0	4153.2			
2014	4-Sep-14	7	297.7	277.4		475	4171.2			
2014	4-Sep-14	8	277.6	248.9		776.5	4162.6			
2014	4-Sep-14	9	294.6	287.1		820.7	4138.7			
2014	4-Sep-14	10	305.1	264		845.8	4144.1			
2014	4-Sep-14	11	362.6	282.1		960.6	4155.7			
2014	4-Sep-14	12	517.8	327.7		1206.2	4137.2			
2014	4-Sep-14	13	726.1	385.1		1587.2	4117			
2014	4-Sep-14	14	802	551.2		2258.2	4112.8			
2014	4-Sep-14	15	859.1	792.4		2344.7	4137			
2014	4-Sep-14	16	879.6	1056.2		2332.8	4149.5			
2014	4-Sep-14	17	859.5	1265.6		2344.9	4137.7			
2014	4-Sep-14	18	907	1445.7		2346.1	4139			
2014	4-Sep-14	19	921.5	1532.8		2246.5	4108.1			
2014	4-Sep-14	20	930.6	862.7		2115.2	4016.1			
2014	4-Sep-14	21	621.9	444.2		1245.1	3613.1			
2014	4-Sep-14	22	373.1	284.2		860.6	3099.3			
2014	4-Sep-14	23	229.8	204.6		881.9	2733.7			
2014	5-Sep-14	0	155.6	124.9		885.2	2632.6			
2014	5-Sep-14	1	253	114.6		883	2631.7			
2014	5-Sep-14	2	248.5	105.5		891.1	2627.8			
2014	5-Sep-14	3	229.5	157.9		908.1	2621.3			
2014	5-Sep-14	4	227.9	264		915.2	2606.4			
2014	5-Sep-14	5	248	236.3		946	2805.2			
2014	5-Sep-14	6	273.6	232		965.6	3162.6			
2014	5-Sep-14	7	302.7	256.4		944.5	3076.7			
2014	5-Sep-14	8	337.9	252.3		965.6	3285.5			
2014	5-Sep-14	9	446.2	296.7		1017.1	3681.8			
2014	5-Sep-14	10	423.2	305.3		988.1	3643.5			
2014	5-Sep-14	11	747	491.9		1352	3923.5			
2014	5-Sep-14	12	1209.2	787.7		2078.4	4055.6			
2014	5-Sep-14	13	911	683.3		2211.4	4063.7			
2014	5-Sep-14	14	986.7	1162		2201.2	4067.1			
2014	5-Sep-14	15	1090.6	1237.6		2175.1	4096.8			
2014	5-Sep-14	16	1213.8	1399.8		2164	4095.2			
2014	5-Sep-14	17	924.1	933.8		2037.6	4078.7			
2014	5-Sep-14	18	676.4	634.4		1868	3917.8			
2014	5-Sep-14	19	840.6	701		2072.2	4006.3			
2014	5-Sep-14	20	710.8	637.8		2086.7	4085.1			
2014	5-Sep-14	21	574.1	444.4		1724.4	3901.9			
2014	5-Sep-14	22	791.7	317.8		1578.6	3576.5			
2014	5-Sep-14	23	612.4	239.6		1094.8	3401.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	6-Sep-14	0	626.1	251.7		860.6	3495.8			
2014	6-Sep-14	1	480.6	186.4		857.6	3101.1			
2014	6-Sep-14	2	300.8	112.5		829.9	2672.7			
2014	6-Sep-14	3	280	88.9		825.7	2671.3			
2014	6-Sep-14	4	268.1	106.8		821.4	2665.9			
2014	6-Sep-14	5	252.2	251.7		823.3	2699.6			
2014	6-Sep-14	6	246.3	264.7		826.1	2722.1			
2014	6-Sep-14	7	345.7	316.2		944	3190.2			
2014	6-Sep-14	8	418.1	344.2		968.9	3621.9			
2014	6-Sep-14	9	419.9	372		972.9	3619			
2014	6-Sep-14	10	710.7	518.5		1094.4	3809.3			
2014	6-Sep-14	11	1102.8	540.3		1694.3	3820.6			
2014	6-Sep-14	12	1217.8	862.7		2052.6	3835.5			
2014	6-Sep-14	13	937.3	1399.8		2111.3	3848.6			
2014	6-Sep-14	14	860.4	774.9		2170.8	3874.9			
2014	6-Sep-14	15	964.6	591.4		2208.5	3915			
2014	6-Sep-14	16	816	607.7		2100	4019.9			
2014	6-Sep-14	17	552.5	411		1715.3	3769.4			
2014	6-Sep-14	18	501.6	388.6		1604.7	3715			
2014	6-Sep-14	19	448.2	645.7		1654.9	3807.2			
2014	6-Sep-14	20	586.8	492.4		1201.2	3688.1			
2014	6-Sep-14	21	606.2	399.3		794.3	3401.2			
2014	6-Sep-14	22	376.7	294.6		704.1	2993.4			
2014	6-Sep-14	23	285.2	280.8		90.16	2771.7			
2014	7-Sep-14	0	272	292.2			2768.2			
2014	7-Sep-14	1	271.7	273.5			2761.8			
2014	7-Sep-14	2	261.5	290.3			2761.9			
2014	7-Sep-14	3	265.3	296.8			2759			
2014	7-Sep-14	4	258.2	253.8			2776.7			
2014	7-Sep-14	5	270.6	274.3			2756.8			
2014	7-Sep-14	6	276.9	265.4			2781.2			
2014	7-Sep-14	7	278	269			2782.6			
2014	7-Sep-14	8	277	227.4			2773.2			
2014	7-Sep-14	9	280.1	223			2792.3			
2014	7-Sep-14	10	278.3	228.7			2805.8			
2014	7-Sep-14	11	277.1	225.6			2831.4			
2014	7-Sep-14	12	324	253.9			3250.1			
2014	7-Sep-14	13	286	221.8			3275.3			
2014	7-Sep-14	14	273.3	223.8			3393.6			
2014	7-Sep-14	15	347.9	281			3732.8			
2014	7-Sep-14	16	424.1	308.5			3798.3			
2014	7-Sep-14	17	304.2	223.1			3497.7			
2014	7-Sep-14	18	270.2	252.9			3149.1			
2014	7-Sep-14	19	321	289.4			3440.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	7-Sep-14	20	263.1	225.3			3137.1			
2014	7-Sep-14	21	265.9	241.1			2833.3			
2014	7-Sep-14	22	268.2	234.6			2808.8			
2014	7-Sep-14	23	267.5	243.5			2800.3			
2014	8-Sep-14	0	266.4	231.1			2799			
2014	8-Sep-14	1	274.9	242.6			2804.7			
2014	8-Sep-14	2	268.5	240.9			2810			
2014	8-Sep-14	3	275.9	229.5			2807.6			
2014	8-Sep-14	4	275.7	228.6			2807			
2014	8-Sep-14	5	285.7	237.3			3067.6			
2014	8-Sep-14	6	292.5	212			2856			
2014	8-Sep-14	7	305.4	242.9			2821.9			
2014	8-Sep-14	8	296.1	260.6			2985.4			
2014	8-Sep-14	9	281.4	245.6			3217.3			
2014	8-Sep-14	10	287.4	221.8			3101.8			
2014	8-Sep-14	11	287.4	240.2			3148.1			
2014	8-Sep-14	12	305.9	249.3			3173.8			
2014	8-Sep-14	13	305.3	249.2			3294.6			
2014	8-Sep-14	14	293.6	246.5			3060.4			
2014	8-Sep-14	15	294.4	249.5			3195			
2014	8-Sep-14	16	307.3	233.7			3300			
2014	8-Sep-14	17	254.7	221.2			3125.9			
2014	8-Sep-14	18	256.5	245.2			3101.3			
2014	8-Sep-14	19	287.3	237.5			3311.3			
2014	8-Sep-14	20	279.7	225.6			3384.1			
2014	8-Sep-14	21	273.2	208.2			2906.6			
2014	8-Sep-14	22	273.8	242.6			2788.7			
2014	8-Sep-14	23	283.8	238.3			2775.9			
2014	9-Sep-14	0	281.5	219.3			2761.6			
2014	9-Sep-14	1	283.4	216.3			2759.5			
2014	9-Sep-14	2	273.8	220			2779.6			
2014	9-Sep-14	3	277.2	210.6			2764.9			
2014	9-Sep-14	4	275.8	254.5			2758.9			
2014	9-Sep-14	5	287.1	249.4			2852.7			
2014	9-Sep-14	6	271.8	239.8			2797.5			
2014	9-Sep-14	7	267.1	276.3			2797.3			
2014	9-Sep-14	8	269	234.9			2796.3			
2014	9-Sep-14	9	260.3	255.6			2808.7			
2014	9-Sep-14	10	269.2	255			2911.5			
2014	9-Sep-14	11	273	248.8			3040.6			
2014	9-Sep-14	12	367.1	296.7			3506.6			
2014	9-Sep-14	13	402.4	277.6			3761.6			
2014	9-Sep-14	14	517.2	327.2			4055.4			
2014	9-Sep-14	15	545.5	288.7			4069.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	9-Sep-14	16	562.9	297.4			4121			
2014	9-Sep-14	17	423.9	242.7			3876.7			
2014	9-Sep-14	18	355.9	273.8			3792.9			
2014	9-Sep-14	19	497.7	406.7			3976.7			
2014	9-Sep-14	20	519	312.3			3824.8			
2014	9-Sep-14	21	356.6	223.5			3576.7			
2014	9-Sep-14	22	304.5	243.4			3152.8			
2014	9-Sep-14	23	297.2	234.6			2808.6			
2014	10-Sep-14	0	279.6	229.9			2771.1			
2014	10-Sep-14	1	274.7	233			2751.4			
2014	10-Sep-14	2	278.4	237.7			2746.1			
2014	10-Sep-14	3	271	212.2			2754.7			
2014	10-Sep-14	4	269.6	221.5			2737.5			
2014	10-Sep-14	5	262.4	216.5			2921.6			
2014	10-Sep-14	6	249.3	199.5			2941.4			
2014	10-Sep-14	7	278.8	225.1			2781.8			
2014	10-Sep-14	8	260.6	217.5			2798.4			
2014	10-Sep-14	9	254.9	222.6			2855.1			
2014	10-Sep-14	10	265.4	226.9			3001.4			
2014	10-Sep-14	11	295.4	227.7			3401			
2014	10-Sep-14	12	309.5	233.3			3662.9			
2014	10-Sep-14	13	317.3	237.5			3744.6			
2014	10-Sep-14	14	366.2	278.3			3885.4			
2014	10-Sep-14	15	459.7	331.6			4123.4			
2014	10-Sep-14	16	689.3	468.4			4282.4			
2014	10-Sep-14	17	903.9	469.1			4224.7			
2014	10-Sep-14	18	1110.5	602.9			4131.2			
2014	10-Sep-14	19	989.6	1099.6			4280.5			
2014	10-Sep-14	20	559.7	845.1			4049.5			
2014	10-Sep-14	21	421.9	517			3669.4			
2014	10-Sep-14	22	266.1	402.3			3244.9			
2014	10-Sep-14	23	176.2	254.1			2879.8			3.1
2014	11-Sep-14	0	130.3	230.2			2746.7			56.5
2014	11-Sep-14	1	116.3	231			2705			31.1
2014	11-Sep-14	2	121.5	229.7			2728.4			15.3
2014	11-Sep-14	3	287.7	228.5			2710.3			16.9
2014	11-Sep-14	4	296.9	231.4			2727.2			4.9
2014	11-Sep-14	5	301.4	243.4			2907.9			3.5
2014	11-Sep-14	6	304.8	256.1			2881.7			114.4
2014	11-Sep-14	7	298.1	246.6			2757.2			222.4
2014	11-Sep-14	8	307.7	248.7			2917			369.4
2014	11-Sep-14	9	325.5	253.3			3313.6			501.1
2014	11-Sep-14	10	337	234.3			3601.8			479.2
2014	11-Sep-14	11	423.4	354.4			3814.3			500.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	11-Sep-14	12	973.4	1147.2			4014.5			574
2014	11-Sep-14	13	800.7	1078.2			4201.9			478.6
2014	11-Sep-14	14	713.8	866.8			4140			455.3
2014	11-Sep-14	15	603.9	872.1			4055.3			463.7
2014	11-Sep-14	16	651.6	865.4			4095.1			460.2
2014	11-Sep-14	17	540.8	827.8			3891.1			460
2014	11-Sep-14	18	1150	624.6			3816.2			476.5
2014	11-Sep-14	19	1273.8	693.2			4059.1			533.7
2014	11-Sep-14	20	1112.1	384			3898.7			461.5
2014	11-Sep-14	21	839.1	152.2			3606.7			463.6
2014	11-Sep-14	22	571.4	88.55			3210.8			461.2
2014	11-Sep-14	23	398				2927.9			460.2
2014	12-Sep-14	0	293.3				2745.9			460.9
2014	12-Sep-14	1	300.4				2743.3			462.9
2014	12-Sep-14	2	299.5				2757.7			446.2
2014	12-Sep-14	3	296.9				2744.3			448.4
2014	12-Sep-14	4	285.8				2743.6			451.2
2014	12-Sep-14	5	281.8				2867.6			450.3
2014	12-Sep-14	6	352.7				2779.9			450.6
2014	12-Sep-14	7	352.7				2845.5			468.5
2014	12-Sep-14	8	518.8				3128.1			483.3
2014	12-Sep-14	9	873.4				3498.4			693.1
2014	12-Sep-14	10	886.1				3197.2			792.8
2014	12-Sep-14	11	925.4				3446.6			759.6
2014	12-Sep-14	12	948.8				3337.1			265.35
2014	12-Sep-14	13	1024.6				3337.5			45.1
2014	12-Sep-14	14	969.7				3059.9			256.8
2014	12-Sep-14	15	948.1				3046.7			323.9
2014	12-Sep-14	16	919				2925.6			318.4
2014	12-Sep-14	17	774				2833.7			321.5
2014	12-Sep-14	18	460.1				2999.7			273.8
2014	12-Sep-14	19	411.5				3146			295.8
2014	12-Sep-14	20	312.1				2793.2			151.436
2014	12-Sep-14	21	302.4				2796.6			
2014	12-Sep-14	22	306.5				2771.3			
2014	12-Sep-14	23	304.8				2769.7			
2014	13-Sep-14	0	302.2				2763.7			
2014	13-Sep-14	1	316.5				2752.5			
2014	13-Sep-14	2	303.6				2767.7			
2014	13-Sep-14	3	323.2				2763.7			
2014	13-Sep-14	4	311				2762.3			
2014	13-Sep-14	5	295.4				2723.3			
2014	13-Sep-14	6	302.8				2744.5			
2014	13-Sep-14	7	332.1				2744.8			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	13-Sep-14	8	420.6				3080.9			
2014	13-Sep-14	9	527.9				3370.2			
2014	13-Sep-14	10	431.1				3162			
2014	13-Sep-14	11	321.3				3397.4			
2014	13-Sep-14	12	329.3				3574.4			
2014	13-Sep-14	13	317.2				3732.8			
2014	13-Sep-14	14	361				3937.5			
2014	13-Sep-14	15	344.5				3865.8			
2014	13-Sep-14	16	342.5				3905.7			
2014	13-Sep-14	17	334.6				3879.2			
2014	13-Sep-14	18	305.6				3709.6			
2014	13-Sep-14	19	324.4				3762.9			
2014	13-Sep-14	20	340.4				3891.4			
2014	13-Sep-14	21	323.6				3818.3			
2014	13-Sep-14	22	325.5				3633.5			
2014	13-Sep-14	23	345.6				3258.3			
2014	14-Sep-14	0	349.8				2867.3			
2014	14-Sep-14	1	339.8				2749.6			
2014	14-Sep-14	2	336				2727.3			
2014	14-Sep-14	3	325.2				2730.9			
2014	14-Sep-14	4	296				2722.2			
2014	14-Sep-14	5	318.1				2731.4			
2014	14-Sep-14	6	316				2914.1			
2014	14-Sep-14	7	377.7				3417.7			
2014	14-Sep-14	8	340.6				3866.9			
2014	14-Sep-14	9	358				3909.1			
2014	14-Sep-14	10	324.3				3829.8			
2014	14-Sep-14	11	352.5				3896.8			
2014	14-Sep-14	12	468				4022.9			
2014	14-Sep-14	13	847.6				4121.7			
2014	14-Sep-14	14	570.7				3923.3			
2014	14-Sep-14	15	436.2				3914.2			
2014	14-Sep-14	16	398.1				3989			
2014	14-Sep-14	17	320.4				3847.8			
2014	14-Sep-14	18	309.9				3814.1			
2014	14-Sep-14	19	360.8				4038.4			
2014	14-Sep-14	20	336.1				3815.3			
2014	14-Sep-14	21	339				3831.8			
2014	14-Sep-14	22	386.3				3874			
2014	14-Sep-14	23	368.5				3728.9			
2014	15-Sep-14	0	309.1				3193			
2014	15-Sep-14	1	294.3				2768.2			
2014	15-Sep-14	2	299.5				2693.7			
2014	15-Sep-14	3	301.4				2705.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	15-Sep-14	4	457.6				3090.6			
2014	15-Sep-14	5	1184				4109			
2014	15-Sep-14	6	1163				3975.2			
2014	15-Sep-14	7	1555.6				3779			
2014	15-Sep-14	8	1072.3				3924.4			
2014	15-Sep-14	9	726.5				3791.4			
2014	15-Sep-14	10	572.3				3391.2			
2014	15-Sep-14	11	514.8				3455.8			
2014	15-Sep-14	12	526.2				3418.2			
2014	15-Sep-14	13	1021				3776.6			
2014	15-Sep-14	14	1060.2				3694.3			
2014	15-Sep-14	15	1256.3				3913.8			
2014	15-Sep-14	16	1027.7				3624.2			
2014	15-Sep-14	17	1137.8				3738.3			
2014	15-Sep-14	18	1176.6				3907.4			
2014	15-Sep-14	19	1185.3				4128.7			
2014	15-Sep-14	20	1045.7				3721.9			
2014	15-Sep-14	21	971				3404.8			
2014	15-Sep-14	22	793.8				3232.3			
2014	15-Sep-14	23	455.5				2766.4			
2014	16-Sep-14	0	313.4				2700.9			
2014	16-Sep-14	1	254.3				2774.8			
2014	16-Sep-14	2	259				2658.4			
2014	16-Sep-14	3	266.1				2657.7			
2014	16-Sep-14	4	254.9				2683			
2014	16-Sep-14	5	299.3				3014			
2014	16-Sep-14	6	266.3				3172.9			
2014	16-Sep-14	7	295.6				3281.3			
2014	16-Sep-14	8	268.2				3345.2			
2014	16-Sep-14	9	275.7				3737.5			
2014	16-Sep-14	10	244.6				3732.8			
2014	16-Sep-14	11	268.7				3808.7			
2014	16-Sep-14	12	378.9				4118.5			
2014	16-Sep-14	13	324.7				4064.1			
2014	16-Sep-14	14	357				4089.8			
2014	16-Sep-14	15	471.1				4200.5			
2014	16-Sep-14	16	631.7				4128.6			
2014	16-Sep-14	17	648.3				3989.1			
2014	16-Sep-14	18	547.5				3922.5			
2014	16-Sep-14	19	830.4				4143.7			
2014	16-Sep-14	20	823.1				4058.1			
2014	16-Sep-14	21	535.9				3654.4			
2014	16-Sep-14	22	423.4				3383			
2014	16-Sep-14	23	302.7				3076.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	17-Sep-14	0	252.4				2712.1			
2014	17-Sep-14	1	252.6				2675			
2014	17-Sep-14	2	246.4				2663.4			
2014	17-Sep-14	3	241				2675.7			
2014	17-Sep-14	4	239.2				2793.8			
2014	17-Sep-14	5	255.8				2882.3			
2014	17-Sep-14	6	270.1				3247.9			
2014	17-Sep-14	7	248.9				2976.3			
2014	17-Sep-14	8	247.2				2987.8			
2014	17-Sep-14	9	305.2				3315.6			
2014	17-Sep-14	10	416.5				3620.8			
2014	17-Sep-14	11	464.8				3944.7			
2014	17-Sep-14	12	538				4038.1			
2014	17-Sep-14	13	679.7				4112.9			
2014	17-Sep-14	14	777				4206.1			
2014	17-Sep-14	15	1223.5				4249.8			
2014	17-Sep-14	16	1383.9				4233.1			
2014	17-Sep-14	17	1079.3				4096.4			
2014	17-Sep-14	18	766.2				3852			
2014	17-Sep-14	19	925.2				4064			
2014	17-Sep-14	20	740				3969			
2014	17-Sep-14	21	386.1				3471.3			
2014	17-Sep-14	22	315.9				2957.1			
2014	17-Sep-14	23	253.5				2704.5			
2014	18-Sep-14	0	260.2				2699.1			
2014	18-Sep-14	1	257.2				2698.8			
2014	18-Sep-14	2	246.5				2704.8			
2014	18-Sep-14	3	252.8				2700.4			
2014	18-Sep-14	4	252.7				2678.2			
2014	18-Sep-14	5	249.3				2840			
2014	18-Sep-14	6	256.5				3466.3			
2014	18-Sep-14	7	262.2				3696.5			
2014	18-Sep-14	8	257.4				3423.3			
2014	18-Sep-14	9	280.2				3745.7			
2014	18-Sep-14	10	302.7				4022			
2014	18-Sep-14	11	272.9				3790.9			
2014	18-Sep-14	12	305.5				3853.4			
2014	18-Sep-14	13	434				4167.8			
2014	18-Sep-14	14	522.4				4210.6			
2014	18-Sep-14	15	767.3				4198.2			
2014	18-Sep-14	16	808.1				4169.7			
2014	18-Sep-14	17	669.1				4063.8			
2014	18-Sep-14	18	481.5				3810.4			
2014	18-Sep-14	19	384				3768.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	18-Sep-14	20	346.5				3870.5			
2014	18-Sep-14	21	266.7				3484			
2014	18-Sep-14	22	274.9				3112.6			
2014	18-Sep-14	23	278.4				2807.9			
2014	19-Sep-14	0	273.5				2854.8			
2014	19-Sep-14	1	276				2796.3			
2014	19-Sep-14	2	267.9				2721.4			
2014	19-Sep-14	3	260.2				2718.9			
2014	19-Sep-14	4	244.2				2937.2			
2014	19-Sep-14	5	269.4				3472			
2014	19-Sep-14	6	294.9				3333.5			
2014	19-Sep-14	7	310.8				3538.7			
2014	19-Sep-14	8	325.9				3888.2			
2014	19-Sep-14	9	563.6				4261.9			
2014	19-Sep-14	10	783.5				4420.6			
2014	19-Sep-14	11	596.4				4298.5			
2014	19-Sep-14	12	545				4001.4			
2014	19-Sep-14	13	673.5				4144.7			
2014	19-Sep-14	14	886.3				4210			
2014	19-Sep-14	15	1106.5				4295.1			
2014	19-Sep-14	16	1361.7				4385.3			
2014	19-Sep-14	17	1301.9				4203.9			
2014	19-Sep-14	18	1130.9				3933.3			
2014	19-Sep-14	19	1074.3				3871.5			
2014	19-Sep-14	20	1013.1				3637.5			
2014	19-Sep-14	21	1034.6				3101.8			
2014	19-Sep-14	22	1069.6				3324.3			
2014	19-Sep-14	23	849.8				3065.3			
2014	20-Sep-14	0	740.6				2760.1			
2014	20-Sep-14	1	726.1				2707.2			
2014	20-Sep-14	2	704.4				2703.5			
2014	20-Sep-14	3	575.5				2700.9			
2014	20-Sep-14	4	606.3				2714.4			
2014	20-Sep-14	5	567.6				2652.8			
2014	20-Sep-14	6	580.1				2696			
2014	20-Sep-14	7	590.1				2889.7			
2014	20-Sep-14	8	572.9				3357.7			
2014	20-Sep-14	9	552.1				3776.6			
2014	20-Sep-14	10	577.6				3873.2			
2014	20-Sep-14	11	659				4124.8			
2014	20-Sep-14	12	1130.1				4334.9			
2014	20-Sep-14	13	1575.9				4326.3			
2014	20-Sep-14	14	959.3				4291.3			
2014	20-Sep-14	15	814.8				4317.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	20-Sep-14	16	802.4				4307.6			
2014	20-Sep-14	17	789.7			0	4312.7			
2014	20-Sep-14	18	787.8			0	4206.5			
2014	20-Sep-14	19	821.9			0	4274.4			
2014	20-Sep-14	20	862.9			0	4271.6			
2014	20-Sep-14	21	812.4			0	4229.1			
2014	20-Sep-14	22	644.4			0	4035.1			
2014	20-Sep-14	23	548.4			0	3523.8			
2014	21-Sep-14	0	384.5			0	3062.4			
2014	21-Sep-14	1	283.9			0	2830.5			
2014	21-Sep-14	2	438.8			0	2733.5			
2014	21-Sep-14	3	326.7			0	2749.8			
2014	21-Sep-14	4	280.4			0	2670.6			
2014	21-Sep-14	5	292			0	2601.8			
2014	21-Sep-14	6	296.6			0	2646.8			
2014	21-Sep-14	7	300.4			0	2624.5			
2014	21-Sep-14	8	284.5			0	2644.1			
2014	21-Sep-14	9	283.4			227.7	2810.5			
2014	21-Sep-14	10	322.2			697.3	3380.3			
2014	21-Sep-14	11	585.7			980.8	3961.3			
2014	21-Sep-14	12	962.1			1804.2	4169.2			
2014	21-Sep-14	13	772.2			2071	4200.3			
2014	21-Sep-14	14	799.2			2147.3	4229.6			
2014	21-Sep-14	15	819.1			2236.3	4231.4			
2014	21-Sep-14	16	845.4			2205.4	4223.4			
2014	21-Sep-14	17	728.4			2211	4157.2			
2014	21-Sep-14	18	733.8			2186	4115			
2014	21-Sep-14	19	730.4			2134.1	4129.3			
2014	21-Sep-14	20	611.4			2072.5	4021.1			
2014	21-Sep-14	21	449.4			1186.9	3773.9			
2014	21-Sep-14	22	365			825.1	3503.4			
2014	21-Sep-14	23	500.5			835.7	3008.3			
2014	22-Sep-14	0	590.9			824	2718.5			
2014	22-Sep-14	1	576.1			810.8	2673.5			
2014	22-Sep-14	2	576.4			819.3	2821.4			
2014	22-Sep-14	3	637.9			815.3	3062.9			
2014	22-Sep-14	4	742			929.7	2937.7			
2014	22-Sep-14	5	1183.8			1601.4	3882.9			
2014	22-Sep-14	6	1105.5			1881.4	4046.2			
2014	22-Sep-14	7	1047			1893.2	3838.1			
2014	22-Sep-14	8	997			2011	3876.9			
2014	22-Sep-14	9	1168.3			2045.9	4024.3			
2014	22-Sep-14	10	1622.9			2168.3	4118.6			
2014	22-Sep-14	11	916.2			2246	4166.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	22-Sep-14	12	796.6			2263	4199.7			
2014	22-Sep-14	13	843.5			2282.5	4218.2			
2014	22-Sep-14	14	867.9			2302.9	4207.9			
2014	22-Sep-14	15	857			2316.9	4221.2			
2014	22-Sep-14	16	890.4			2304.9	4241.7			
2014	22-Sep-14	17	866			2274	4266.1			
2014	22-Sep-14	18	736.4			1948.2	4112.4			
2014	22-Sep-14	19	699.7			1667.2	4125.1			
2014	22-Sep-14	20	681			1811.1	4212.9			
2014	22-Sep-14	21	607			1111.7	3944			
2014	22-Sep-14	22	488.8			788.6	3583.4			
2014	22-Sep-14	23	434.6			797.5	3392			
2014	23-Sep-14	0	701.1			791.5	2841.4			
2014	23-Sep-14	1	737.1			796.5	2727.2			
2014	23-Sep-14	2	604.2			792.9	2734.1			
2014	23-Sep-14	3	537.8			795.7	2937.2			
2014	23-Sep-14	4	735.9			1257.8	3529.9			
2014	23-Sep-14	5	860.1			2005.9	4075.4			
2014	23-Sep-14	6	917.9			2150	4269.6			
2014	23-Sep-14	7	929.1			2163.6	4298.9			
2014	23-Sep-14	8	946.8			2198.5	4308.7			
2014	23-Sep-14	9	970.9			2155.7	4315.4			
2014	23-Sep-14	10	981.9			2180	4297			
2014	23-Sep-14	11	947.1			2190.7	4336.8			
2014	23-Sep-14	12	626.8			2018.8	4271.6			
2014	23-Sep-14	13	1177.5			2049.8	4161.5			
2014	23-Sep-14	14	1091.4			1919.7	4107.5			
2014	23-Sep-14	15	977.3			1618.2	3845			
2014	23-Sep-14	16	913.7			1641.2	3998.8			
2014	23-Sep-14	17	861.5			1066.8	3924			
2014	23-Sep-14	18	877.1			968.4	3923.1			
2014	23-Sep-14	19	952.8			1305.1	4151.6			
2014	23-Sep-14	20	951.5			978.6	4021			
2014	23-Sep-14	21	737.5			811.5	3604.8			
2014	23-Sep-14	22	525.7			783.3	3075.2			
2014	23-Sep-14	23	408.1			784.1	2721.4			
2014	24-Sep-14	0	294.6			782.7	2686.1			
2014	24-Sep-14	1	287.2			778.5	2696.5			
2014	24-Sep-14	2	292.5			778.2	2691.1			
2014	24-Sep-14	3	295.9			781.9	2692.4			
2014	24-Sep-14	4	407			1007.5	2954.2			
2014	24-Sep-14	5	822.5			1807.3	3853.1			
2014	24-Sep-14	6	630.2			1936.9	4173.5			
2014	24-Sep-14	7	822.1			2077.1	4284.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	24-Sep-14	8	663.2			2008.2	4271.1			
2014	24-Sep-14	9	443.6			1747.8	4003.4			
2014	24-Sep-14	10	326.2			1289.5	3837.9			
2014	24-Sep-14	11	306.2			975	4081.9			
2014	24-Sep-14	12	229			884.9	3920.3			
2014	24-Sep-14	13	208.6			851.8	3676			
2014	24-Sep-14	14	197.3			852.5	3435.4			
2014	24-Sep-14	15	763.1			918.9	3735.7			
2014	24-Sep-14	16	986.4			964.8	4000.8			
2014	24-Sep-14	17	994.8			992	4096.8			
2014	24-Sep-14	18	1162.2			1522.1	4254.6			
2014	24-Sep-14	19	1020.5			1649.1	4239.2			
2014	24-Sep-14	20	1111.7			1114.5	4104.4			
2014	24-Sep-14	21	1186.2			877.6	4087.4			
2014	24-Sep-14	22	927.5			799.9	3827			
2014	24-Sep-14	23	552.7			796.4	3408			
2014	25-Sep-14	0	427.2			756.6	2962.6			
2014	25-Sep-14	1	342.3			756	2753.5			
2014	25-Sep-14	2	354.5			760.1	2659.3			
2014	25-Sep-14	3	351.4			756.3	2664.9			
2014	25-Sep-14	4	519.4			1180.5	2895			
2014	25-Sep-14	5	613.1			1844.3	3801.8			
2014	25-Sep-14	6	613.3			1745.9	4013			
2014	25-Sep-14	7	817.6			1845.9	4007.6			
2014	25-Sep-14	8	802.1			1805.2	4148.8			
2014	25-Sep-14	9	746.3			1444.5	4029.8			
2014	25-Sep-14	10	996.7			1913.2	4261.2			
2014	25-Sep-14	11	859			1969	4306.6			
2014	25-Sep-14	12	573.8			1942.5	4313.5			
2014	25-Sep-14	13	574.9			1966	4339.4			
2014	25-Sep-14	14	577.3			1942.2	4339.6			
2014	25-Sep-14	15	779.8			2004.4	4358.1			
2014	25-Sep-14	16	705.3			2005.7	4342.1			
2014	25-Sep-14	17	823.6			2006.9	4353.3			
2014	25-Sep-14	18	812.4			1991.8	4348.6			
2014	25-Sep-14	19	760.2			1894.3	4285.3			
2014	25-Sep-14	20	818			1998.7	4326.5			
2014	25-Sep-14	21	657.1			1477.1	4122.9			
2014	25-Sep-14	22	924.3			943.3	3772.1			
2014	25-Sep-14	23	763.3			810.5	3228.8			
2014	26-Sep-14	0	585.6			798.4	2796.5			
2014	26-Sep-14	1	407.9			803.7	2766.3			
2014	26-Sep-14	2	313.8			809.6	2834			
2014	26-Sep-14	3	329.3			794.8	2715.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	26-Sep-14	4	304.4			795.3	2781.6			
2014	26-Sep-14	5	470.3			988.7	3452.6			
2014	26-Sep-14	6	604.4			1664	3950.9			
2014	26-Sep-14	7	515.6			1432.4	4144.2			
2014	26-Sep-14	8	698.4			1856.7	4263.9			
2014	26-Sep-14	9	797			1930.8	4331.5			
2014	26-Sep-14	10	843.9			1979.5	4324			
2014	26-Sep-14	11	836.9			1984.7	4309.8			
2014	26-Sep-14	12	746.9			1942	4292.3			
2014	26-Sep-14	13	812.2			1996.8	4368.6			
2014	26-Sep-14	14	786.9			1930.6	4300.6			
2014	26-Sep-14	15	882.3			1991.4	4358.7			
2014	26-Sep-14	16	905.9			2013.3	4374.6			
2014	26-Sep-14	17	945.4			2008	4373.4			
2014	26-Sep-14	18	925			1735.5	4341.4			
2014	26-Sep-14	19	1119.5			2017.6	4380.2			
2014	26-Sep-14	20	1117.2			1569.4	4244.8			
2014	26-Sep-14	21	858.3			933.1	4013.4			
2014	26-Sep-14	22	732.6			778.7	3718.4			
2014	26-Sep-14	23	412.2			774.5	3230			
2014	27-Sep-14	0	281.4			775.1	2869.6			
2014	27-Sep-14	1	196			777.8	2682.2			
2014	27-Sep-14	2	262.5			764.9	2688			
2014	27-Sep-14	3	337.3			750.4	2667.8			
2014	27-Sep-14	4	351.9			754.9	2665.1			
2014	27-Sep-14	5	337.1			757.9	2627.7			
2014	27-Sep-14	6	348.4			761.4	2774.4			
2014	27-Sep-14	7	379.5			806	2869.5			
2014	27-Sep-14	8	478.9			985.3	3552.3			
2014	27-Sep-14	9	424.3			842.3	3772.1			
2014	27-Sep-14	10	400.4			812.5	3928.3			
2014	27-Sep-14	11	534.9			870	4128.6			
2014	27-Sep-14	12	537.7			1114.9	4241			
2014	27-Sep-14	13	694.3			1538.7	4321.5			
2014	27-Sep-14	14	789.5			1700.8	4200			
2014	27-Sep-14	15	612.6			1259.5	4036.2			
2014	27-Sep-14	16	634.2			1283.1	4119			
2014	27-Sep-14	17	572.3			1051.8	3800.2			
2014	27-Sep-14	18	574.4			1011.8	3613.6			
2014	27-Sep-14	19	534.3			848.3	3664.5			
2014	27-Sep-14	20	489.7			793.1	3693.8			
2014	27-Sep-14	21	413.2			775.6	3616.6			
2014	27-Sep-14	22	358			786	3682.7			
2014	27-Sep-14	23	302.9			772.7	3224			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	28-Sep-14	0	323			778.2	2806.4			
2014	28-Sep-14	1	306.6			774.2	2738.4			
2014	28-Sep-14	2	306.9			775	2700.5			
2014	28-Sep-14	3	305.2			777.2	2700.6			
2014	28-Sep-14	4	294.1			776	2684.3			
2014	28-Sep-14	5	293.7			775.8	2642.3			
2014	28-Sep-14	6	308.2			775.1	2681.2			
2014	28-Sep-14	7	309.2			768.8	2838.8			
2014	28-Sep-14	8	356.7			896.4	3117.8		0	0
2014	28-Sep-14	9	298.1			757.6	2837.2		0	0
2014	28-Sep-14	10	316.6			764.9	2812.5		0	0
2014	28-Sep-14	11	299.7			769.2	3027.9		9.7	0
2014	28-Sep-14	12	341.2			811.7	3496.1		28.1	0
2014	28-Sep-14	13	310.4			751.6	3455.8		33.2	0
2014	28-Sep-14	14	306.2			727.6	2943.8		37	0
2014	28-Sep-14	15	329.2			796.9	2927.5		37.4	0
2014	28-Sep-14	16	366.7			866.4	3299.7		35.4	0
2014	28-Sep-14	17	300.9			755.2	3096.4		40.4	0
2014	28-Sep-14	18	320.2			908.5	3358.1		47.6	0
2014	28-Sep-14	19	355.1			908.2	3415.7		48.4	0
2014	28-Sep-14	20	284.6			789	3382		45.1	0
2014	28-Sep-14	21	258.2			755.3	3045.2		63.1	0
2014	28-Sep-14	22	242.1			764.9	2736		77.2	45.5
2014	28-Sep-14	23	244.7			755.2	2704.2		64.7	137.9
2014	29-Sep-14	0	260.7			756.8	2989.5		60.2	149.3
2014	29-Sep-14	1	249.3			754.5	3441.4		84.8	252.1
2014	29-Sep-14	2	256.9			761.2	3541.9		139.5	391.8
2014	29-Sep-14	3	286			762.9	3503.8		213.5	501
2014	29-Sep-14	4	310.9			763.1	3336.6		229.8	578.4
2014	29-Sep-14	5	645.1			900.4	3625.1		283.8	706.2
2014	29-Sep-14	6	637.4			1214.9	3864.1		373.1	617.3
2014	29-Sep-14	7	595.2			1136.4	3976.7		380.8	466.1
2014	29-Sep-14	8	731.7			1356.9	4173.4		406.5	484.8
2014	29-Sep-14	9	1132			1687.8	4271		424	506.5
2014	29-Sep-14	10	1753.1			1906.9	4291.2		486.3	595.2
2014	29-Sep-14	11	811.9			1691.2	4274.2		574.6	638.4
2014	29-Sep-14	12	579.9			1722.5	4205.4		601.3	604.1
2014	29-Sep-14	13	717.7			1909	4300.3		662.6	681.8
2014	29-Sep-14	14	769.1			1764.6	4289		546	510.1
2014	29-Sep-14	15	739.7			1806.1	4282.3		535.8	502
2014	29-Sep-14	16	787			1802.1	4292.5		420.8	503.7
2014	29-Sep-14	17	727.1			1870.1	4315.9		414.4	473.6
2014	29-Sep-14	18	765.8			1974.8	4348.1		456.9	566.6
2014	29-Sep-14	19	716.8			1739.7	4319.8		432.9	573.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	29-Sep-14	20	687			1606.8	4236.8		416.5	476
2014	29-Sep-14	21	666.1			1034.7	3925.2		416.4	477.8
2014	29-Sep-14	22	566.8			774.4	3551.3		415.9	475.4
2014	29-Sep-14	23	341			780.7	3200.8		408.6	653.7
2014	30-Sep-14	0	274.1			781.2	2875.6		396.9	762.8
2014	30-Sep-14	1	274.6			785	2707.9		398.6	763
2014	30-Sep-14	2	283.8			783.3	2680.5		391.3	747.7
2014	30-Sep-14	3	282.5			784	2684.5		366	624.3
2014	30-Sep-14	4	370.8			788.7	2704.3		387.1	414.2
2014	30-Sep-14	5	681.7			810.8	2799.9		387.7	454.3
2014	30-Sep-14	6	568.1			788.9	2830.1		361.5	499.7
2014	30-Sep-14	7	607			794.5	2992.3		342.2	316.6
2014	30-Sep-14	8	557.2			872.1	3468.2		321.2	196.3
2014	30-Sep-14	9	533.6			830	3614.6		280.2	34
2014	30-Sep-14	10	653.8			902.5	3901.4		122.388	
2014	30-Sep-14	11	711.2			909.4	4027.4			
2014	30-Sep-14	12	777.4			964.5	4095.2			
2014	30-Sep-14	13	838			989.4	4129			
2014	30-Sep-14	14	1017.9			994.8	4171.2			
2014	30-Sep-14	15	1477			1643.4	4284.9			
2014	30-Sep-14	16	668.3			1986.2	4216.8			
2014	30-Sep-14	17	578.5			1951	4159.7			
2014	30-Sep-14	18	619.3			1974.4	4249.2			
2014	30-Sep-14	19	613.7			1918.3	4223.9			
2014	30-Sep-14	20	686.3			1934	4225.6			
2014	30-Sep-14	21	601.8			1480	4080.9			
2014	30-Sep-14	22	490.8			949	3889.8			
2014	30-Sep-14	23	383.7			826.3	3448.5			
2014	1-Oct-14	0	289			820.2	2733.7			
2014	1-Oct-14	1	456.2			808.9	2527.6			
2014	1-Oct-14	2	571.2			788.4	2540.7			
2014	1-Oct-14	3	555.2			784.2	2518.3			
2014	1-Oct-14	4	555.1			798.3	2509.1			
2014	1-Oct-14	5	561.6			849.4	2746.9			
2014	1-Oct-14	6	864.7			867.3	3150.4			
2014	1-Oct-14	7	679.4			766.8	3583.8			
2014	1-Oct-14	8	477.8			840.7	3708.8			
2014	1-Oct-14	9	888.5			937.5	3867.8			
2014	1-Oct-14	10	1069			1083.4	3934.2			
2014	1-Oct-14	11	1285.7			1167.3	3945.1			
2014	1-Oct-14	12	924			1681.8	4045.1			
2014	1-Oct-14	13	674.1			1944.8	4066.4			
2014	1-Oct-14	14	697.6			1954.8	4097.8			
2014	1-Oct-14	15	754.5			2034.3	4079.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	1-Oct-14	16	777.2			2035.7	4083.1			
2014	1-Oct-14	17	752			2032.5	4084.5			
2014	1-Oct-14	18	739			1932.5	4012.2			
2014	1-Oct-14	19	785.4			1942.2	4029.3			
2014	1-Oct-14	20	687.8			1617	3892.9			
2014	1-Oct-14	21	600.6			889.3	3512.3			
2014	1-Oct-14	22	481			733.7	3024			
2014	1-Oct-14	23	397.4			726.4	2652.3			
2014	2-Oct-14	0	286.3			774	2535.4			
2014	2-Oct-14	1	199			817.8	2510.8			
2014	2-Oct-14	2	146.4			809.9	2506			
2014	2-Oct-14	3	265.4			806.8	2506.6			
2014	2-Oct-14	4	367.9			817.6	2515.3			
2014	2-Oct-14	5	729.8			816.1	2517			
2014	2-Oct-14	6	739.4			921.7	2868.1			
2014	2-Oct-14	7	900.8			936.5	3148.6			
2014	2-Oct-14	8	955.5			967.5	3672			
2014	2-Oct-14	9	912			1493.4	3921.3			
2014	2-Oct-14	10	1102.6			1846.6	3991.3			
2014	2-Oct-14	11	1092.2			1923.7	4060.9			
2014	2-Oct-14	12	869.5			1872.4	4035.6			
2014	2-Oct-14	13	843.6			1916.3	4026.7			
2014	2-Oct-14	14	864.7			1902.6	4062.5			
2014	2-Oct-14	15	861.3			1964.1	4049.7			
2014	2-Oct-14	16	852.1			2031	4040.1			
2014	2-Oct-14	17	826.8			2023.1	3979.6			
2014	2-Oct-14	18	744.3			2021.3	3999.4			
2014	2-Oct-14	19	748.5			2114.6	4040.3			
2014	2-Oct-14	20	744.6			2000.1	4008.2			
2014	2-Oct-14	21	700.9			1678.3	3976			
2014	2-Oct-14	22	586.9			1119.6	3842.5			
2014	2-Oct-14	23	500.3			813.5	3421.7			
2014	3-Oct-14	0	390.7			800.5	2999.7			
2014	3-Oct-14	1	760.6			807	2820.2			
2014	3-Oct-14	2	566.1			792.5	2576			
2014	3-Oct-14	3	542			786.6	2535.7			
2014	3-Oct-14	4	555.1			809	2649.7			
2014	3-Oct-14	5	513.7			801.4	3052.6			
2014	3-Oct-14	6	725.1			898.5	3365.5			
2014	3-Oct-14	7	757.6			1051.8	3568.3			
2014	3-Oct-14	8	957.5			1453.5	3657			
2014	3-Oct-14	9	1163.2			1877.1	3882.3			
2014	3-Oct-14	10	1154.4			1880.8	3963.4			
2014	3-Oct-14	11	947			1447.7	3842.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Oct-14	12	895.4			1296.4	3889.2			
2014	3-Oct-14	13	898.7			1022.8	3788.7			
2014	3-Oct-14	14	778.1			853.1	3649.2			
2014	3-Oct-14	15	495.8			708.6	3327			
2014	3-Oct-14	16	398.3			12.038	3304.5			
2014	3-Oct-14	17	427.3				3625.5			
2014	3-Oct-14	18	413.2				3626.9			
2014	3-Oct-14	19	615.1				3771.6			
2014	3-Oct-14	20	586.9				3655.5			
2014	3-Oct-14	21	362.1				3216.3			
2014	3-Oct-14	22	300.4				2828.4			
2014	3-Oct-14	23	271.7				2503.4			
2014	4-Oct-14	0	249.8				2479.6			
2014	4-Oct-14	1	256.7				2473.3			
2014	4-Oct-14	2	231.6				2467.3			
2014	4-Oct-14	3	211.9				2464.7			
2014	4-Oct-14	4	214.4				2463.3			
2014	4-Oct-14	5	226.5				2458.6			
2014	4-Oct-14	6	254				2472.2			
2014	4-Oct-14	7	249.1				2516			
2014	4-Oct-14	8	269.7				2797			
2014	4-Oct-14	9	228.8				2638.6			
2014	4-Oct-14	10	231				2489.8			
2014	4-Oct-14	11	202.3				2537.1			
2014	4-Oct-14	12	176.3				2484			
2014	4-Oct-14	13	201.1				2485			
2014	4-Oct-14	14	209				2473.7			
2014	4-Oct-14	15	213.2				2456.1			
2014	4-Oct-14	16	218.7				2462.1			
2014	4-Oct-14	17	218.2				2485.5			
2014	4-Oct-14	18	237.9				2738.5			
2014	4-Oct-14	19	237.5				2894.8			
2014	4-Oct-14	20	239.9				2675.3			
2014	4-Oct-14	21	229				2477.2			
2014	4-Oct-14	22	226.6				2454.1			
2014	4-Oct-14	23	223.5				2459.2			
2014	5-Oct-14	0	236.6				2451.3			
2014	5-Oct-14	1	225.8				2464			
2014	5-Oct-14	2	224.9				2459.8			
2014	5-Oct-14	3	221.5				2453.5			
2014	5-Oct-14	4	233.1				2455.9			
2014	5-Oct-14	5	244.7				2411.9			
2014	5-Oct-14	6	254.3				2488.5			
2014	5-Oct-14	7	245.4				2440.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	5-Oct-14	8	247.6				2467.9			
2014	5-Oct-14	9	251.6				2461.3			
2014	5-Oct-14	10	254.1				2460.9			
2014	5-Oct-14	11	255.8				2451.5			
2014	5-Oct-14	12	240.4				2473.1			
2014	5-Oct-14	13	235.7				2466.3			
2014	5-Oct-14	14	247.4				2467.5			
2014	5-Oct-14	15	249.6				2460.3			
2014	5-Oct-14	16	252.9				2472.5			
2014	5-Oct-14	17	254.5				2506.1			
2014	5-Oct-14	18	303.7				2937.9			
2014	5-Oct-14	19	281.7				2961.3			
2014	5-Oct-14	20	259.3				2705.8			
2014	5-Oct-14	21	253.5				2515.6			
2014	5-Oct-14	22	266				2475.8			
2014	5-Oct-14	23	255.4				2476.3			
2014	6-Oct-14	0	265.8				2477.7			
2014	6-Oct-14	1	272.4				2491.6			
2014	6-Oct-14	2	268.4				2487.7			
2014	6-Oct-14	3	338.2				2852.8			
2014	6-Oct-14	4	534.4				3151.7			
2014	6-Oct-14	5	1288.1				3652.3			
2014	6-Oct-14	6	767				3954.6			
2014	6-Oct-14	7	712				3911.7			
2014	6-Oct-14	8	728.5				3849.9			
2014	6-Oct-14	9	746.3				3913.4			
2014	6-Oct-14	10	738				3904.8			
2014	6-Oct-14	11	763				4028.7			
2014	6-Oct-14	12	797.2				4036.8			
2014	6-Oct-14	13	829.5				4030.6			
2014	6-Oct-14	14	832.6				4031.5			
2014	6-Oct-14	15	799.8				4025.7			
2014	6-Oct-14	16	815.6				4051.8			
2014	6-Oct-14	17	796.2				4014.9			
2014	6-Oct-14	18	856.7				3975.4			
2014	6-Oct-14	19	799.6				4016.2			
2014	6-Oct-14	20	609.8				3854.7			
2014	6-Oct-14	21	552.7				3567.6			
2014	6-Oct-14	22	505				3562.1			
2014	6-Oct-14	23	669.8				3351.8			
2014	7-Oct-14	0	604.4				3531.1			
2014	7-Oct-14	1	432.1				3496.1			
2014	7-Oct-14	2	305.2				3193.8			
2014	7-Oct-14	3	280.5				3212			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	7-Oct-14	4	439.4				3385.8			
2014	7-Oct-14	5	420.8				3304.2			
2014	7-Oct-14	6	421.4				3004			
2014	7-Oct-14	7	440.9				2593.2			
2014	7-Oct-14	8	433.5				2545.3			
2014	7-Oct-14	9	462				3021.3			
2014	7-Oct-14	10	446.5				3313			
2014	7-Oct-14	11	439				3263.7			
2014	7-Oct-14	12	443				3647.5			
2014	7-Oct-14	13	434.6				3739.1			
2014	7-Oct-14	14	421				3663.7			
2014	7-Oct-14	15	451.5				3548.3			
2014	7-Oct-14	16	559.4				3836.3			
2014	7-Oct-14	17	593.3				3816			
2014	7-Oct-14	18	888.7				3960.6			
2014	7-Oct-14	19	1266.8				3958.3			
2014	7-Oct-14	20	621.5				3717.4			
2014	7-Oct-14	21	566.6				3358.2			
2014	7-Oct-14	22	675.8				3024.8			
2014	7-Oct-14	23	385.2				2783.5			
2014	8-Oct-14	0	373.2				2495.9			
2014	8-Oct-14	1	264.3				2494.2			
2014	8-Oct-14	2	227.7				2438.9			
2014	8-Oct-14	3	243.3				2438.1			
2014	8-Oct-14	4	258.5				2596.8			
2014	8-Oct-14	5	276.6				2912.1			
2014	8-Oct-14	6	299.8				3149.9			
2014	8-Oct-14	7	273.4				3060.9			
2014	8-Oct-14	8	227.5				3130.2			
2014	8-Oct-14	9	262.4				3449			
2014	8-Oct-14	10	225				3332.5			
2014	8-Oct-14	11	220.9				3132.8			
2014	8-Oct-14	12	228.1				3401.7			
2014	8-Oct-14	13	229.7				3278.2			
2014	8-Oct-14	14	218.3				2956.5			
2014	8-Oct-14	15	225.8				2892.6			
2014	8-Oct-14	16	228.9				2800.9			
2014	8-Oct-14	17	221.8				2647.4			
2014	8-Oct-14	18	274.8				2974.1			
2014	8-Oct-14	19	387.8				3115.2			
2014	8-Oct-14	20	405.9				3013			
2014	8-Oct-14	21	375.1				2656.9			
2014	8-Oct-14	22	258.8				2824.9			
2014	8-Oct-14	23	251.5				2631.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	9-Oct-14	0	253.3				2658.3			
2014	9-Oct-14	1	271				2906.5			
2014	9-Oct-14	2	292.9				3087.8			
2014	9-Oct-14	3	244.6				3003.6			
2014	9-Oct-14	4	260.9				3011.9			
2014	9-Oct-14	5	261.1				2933.6			
2014	9-Oct-14	6	262.2				3264.8			
2014	9-Oct-14	7	284.5				3427.3			
2014	9-Oct-14	8	404				3695.8			
2014	9-Oct-14	9	360.3				3668.1			
2014	9-Oct-14	10	390.1				3895.4			
2014	9-Oct-14	11	706.1				4010.7			
2014	9-Oct-14	12	1047.7				4038.8			
2014	9-Oct-14	13	1029.8				4058.5			
2014	9-Oct-14	14	570.4				4048			
2014	9-Oct-14	15	509.1				4010.2			
2014	9-Oct-14	16	684.3				3732.4			
2014	9-Oct-14	17	767.8				3478.7			
2014	9-Oct-14	18	1080.9				3753.9			
2014	9-Oct-14	19	954.5				3936.3			
2014	9-Oct-14	20	788.7				3835.7			
2014	9-Oct-14	21	536.6				3501.9			
2014	9-Oct-14	22	443.5				3223.7			
2014	9-Oct-14	23	321.8				2912.4			
2014	10-Oct-14	0	259.8				2755.7			
2014	10-Oct-14	1	230.8				2511.5			
2014	10-Oct-14	2	235				2526.6			
2014	10-Oct-14	3	234.7				2498			
2014	10-Oct-14	4	236.9				2544.7			
2014	10-Oct-14	5	275.2				2811.1			
2014	10-Oct-14	6	452.9				3328.1			
2014	10-Oct-14	7	315.8				3423.5			
2014	10-Oct-14	8	293.3				3562.7			
2014	10-Oct-14	9	375.2				3934.9			
2014	10-Oct-14	10	564.5				4062.2			
2014	10-Oct-14	11	935.1				4053.9			
2014	10-Oct-14	12	1266.1				4061.4			
2014	10-Oct-14	13	1088.3				4101.3			
2014	10-Oct-14	14	660.8				4070.9			
2014	10-Oct-14	15	607.9				4030.2			
2014	10-Oct-14	16	454.2				3885.3			
2014	10-Oct-14	17	384.5				3632.1			
2014	10-Oct-14	18	316.1				3510			
2014	10-Oct-14	19	547.4				3522.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	10-Oct-14	20	413.5				3189.3			
2014	10-Oct-14	21	181.9				2749.9			
2014	10-Oct-14	22	31.92				2493.6			
2014	10-Oct-14	23					2496.7			
2014	11-Oct-14	0					2691.1			
2014	11-Oct-14	1					2547.1			
2014	11-Oct-14	2					2701.1			
2014	11-Oct-14	3					2529.9			
2014	11-Oct-14	4					2513.9			
2014	11-Oct-14	5					2534.2			
2014	11-Oct-14	6					2789.9			
2014	11-Oct-14	7					3247			
2014	11-Oct-14	8					3758.9			
2014	11-Oct-14	9					3973.5			
2014	11-Oct-14	10					4018.5			
2014	11-Oct-14	11					4036			
2014	11-Oct-14	12					3937.1			
2014	11-Oct-14	13					3860.1			
2014	11-Oct-14	14					3765.3			
2014	11-Oct-14	15					3907.8			
2014	11-Oct-14	16					3959.2			
2014	11-Oct-14	17					3966			
2014	11-Oct-14	18					4009			
2014	11-Oct-14	19					4000.6			
2014	11-Oct-14	20					4007.6			
2014	11-Oct-14	21					4044.9			
2014	11-Oct-14	22					3889.4			
2014	11-Oct-14	23					3585.3			
2014	12-Oct-14	0					3167.6			
2014	12-Oct-14	1					2891.9			
2014	12-Oct-14	2					2710.4			
2014	12-Oct-14	3					2555.6			
2014	12-Oct-14	4					2499.4			
2014	12-Oct-14	5					2462.1			
2014	12-Oct-14	6					2728.4			
2014	12-Oct-14	7					3012.4			
2014	12-Oct-14	8					3571.8			
2014	12-Oct-14	9					3829.5			
2014	12-Oct-14	10					3966.7			
2014	12-Oct-14	11					3863.6			
2014	12-Oct-14	12				0	3825			
2014	12-Oct-14	13				0	3909.6			
2014	12-Oct-14	14				0	3492.1			
2014	12-Oct-14	15				0	3295.2			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	12-Oct-14	16				0	3683.6			
2014	12-Oct-14	17				0	3681.5			
2014	12-Oct-14	18				0	3640.4			
2014	12-Oct-14	19				0	3772.4		0	
2014	12-Oct-14	20				0	3830.7		0	0
2014	12-Oct-14	21				0	3878.3		4.5	0
2014	12-Oct-14	22				0	3840.3		41.1	0
2014	12-Oct-14	23				0	3428.4		53.1	0
2014	13-Oct-14	0				0	3055.3		50.3	0
2014	13-Oct-14	1				0	2671.1		47.9	0
2014	13-Oct-14	2				0	2527		57.4	0
2014	13-Oct-14	3				0	2508.5		55.4	0
2014	13-Oct-14	4				24.2	2522.8		53.8	0
2014	13-Oct-14	5				423	2570.2		53.5	0
2014	13-Oct-14	6				893.7	2974.9		47.2	0.7
2014	13-Oct-14	7				810.5	3365.9		51.6	0
2014	13-Oct-14	8				835.1	3739.2		60	0
2014	13-Oct-14	9				863.5	3741.4		67	0
2014	13-Oct-14	10				850.2	3988.5		81.1	58.7
2014	13-Oct-14	11				869.2	4013.1		83.9	204.8
2014	13-Oct-14	12				819.4	4026.8		85.8	349.3
2014	13-Oct-14	13				786.8	3925.1		87.2	561.1
2014	13-Oct-14	14				821.8	3814.2		128.2	556.1
2014	13-Oct-14	15				1528.6	3993.6		148	26.9
2014	13-Oct-14	16				1642.8	3937.4		253.1	173.1
2014	13-Oct-14	17				1124.5	3939.2		354.1	470.9
2014	13-Oct-14	18				1315.5	4037.7		585.7	739.9
2014	13-Oct-14	19				1194.4	4041.7		727.8	788.6
2014	13-Oct-14	20				797.2	4078.2		695.7	784.4
2014	13-Oct-14	21				786.2	3973.8		504.5	731.6
2014	13-Oct-14	22			0.016	792.8	3685.8		481.6	588.1
2014	13-Oct-14	23			0.035	782	3212.5		488	591.6
2014	14-Oct-14	0			0.036	781.1	2706.5		492.7	623.3
2014	14-Oct-14	1			0.066	781.5	2512.1		493	621.6
2014	14-Oct-14	2			0.078	781.1	2511.5		495.2	624
2014	14-Oct-14	3			0.076	786.3	2501.7		489.7	621.4
2014	14-Oct-14	4			0.083	793.1	2534.8		492.2	621.9
2014	14-Oct-14	5			0.085	997.8	2923.3		494.7	621.9
2014	14-Oct-14	6			0.085	1600.5	3514.2		501.2	629.1
2014	14-Oct-14	7			0.135	1588.9	3681.2		490.9	616
2014	14-Oct-14	8			0.241	1667.4	3640.4		534.4	616.4
2014	14-Oct-14	9			0.28	1976	3831.3		628.3	610.2
2014	14-Oct-14	10			0.321	2271.5	3983.3		643.9	595.8
2014	14-Oct-14	11			0.262	2226.8	4020.4		518.1	595.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Oct-14	12			0.268	2246.8	4026.1		483.4	594.9
2014	14-Oct-14	13			0.343	2270.8	4040.9		601.1	755.3
2014	14-Oct-14	14			0.273	2258.2	4039.9		708.3	789.4
2014	14-Oct-14	15			0.241	2242.9	3991.7		580.5	719.6
2014	14-Oct-14	16			0.23	2227.5	3969.8		585.7	704.7
2014	14-Oct-14	17			0.231	2196.1	3853.5		597.3	715
2014	14-Oct-14	18			0.39	2274.9	4010.6		784.8	870.6
2014	14-Oct-14	19			0.389	2258.2	4020.4		736	889.4
2014	14-Oct-14	20			0.108	2243.5	3980.3		626.1	822.4
2014	14-Oct-14	21				1866.4	3778.7		502.9	821
2014	14-Oct-14	22				1032.9	3496.1		505.6	807.3
2014	14-Oct-14	23				188.641	3040.5		479.2	796.7
2014	15-Oct-14	0					2740.4		313.2	648.8
2014	15-Oct-14	1					2537.6		223.636	425.7
2014	15-Oct-14	2					2493.5			278.2
2014	15-Oct-14	3					2472.2			262.2
2014	15-Oct-14	4					2531.2			166.624
2014	15-Oct-14	5					2855.9			
2014	15-Oct-14	6					3426.2			
2014	15-Oct-14	7					3686.5			
2014	15-Oct-14	8					3797.8			
2014	15-Oct-14	9					3886.4			
2014	15-Oct-14	10					3702.8			
2014	15-Oct-14	11					3710.6			
2014	15-Oct-14	12					3690.1			
2014	15-Oct-14	13					3564.9			
2014	15-Oct-14	14					3382.8			
2014	15-Oct-14	15					3236.5			
2014	15-Oct-14	16					3549.1			
2014	15-Oct-14	17					3652.6			
2014	15-Oct-14	18					3636.9			
2014	15-Oct-14	19					3696.1			
2014	15-Oct-14	20					3522.5			
2014	15-Oct-14	21					3189.1			
2014	15-Oct-14	22					2814.7			
2014	15-Oct-14	23					2495.1			
2014	16-Oct-14	0					2327.9			
2014	16-Oct-14	1					2311.1			
2014	16-Oct-14	2					2316.9			
2014	16-Oct-14	3					2313.6			
2014	16-Oct-14	4					2321.4			
2014	16-Oct-14	5					2468.6			
2014	16-Oct-14	6					2908.1			
2014	16-Oct-14	7					2960.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	16-Oct-14	8					2811.7			
2014	16-Oct-14	9					2881.8			
2014	16-Oct-14	10					2750.9			
2014	16-Oct-14	11					2707.9			
2014	16-Oct-14	12					2843.3			
2014	16-Oct-14	13					2878.1			
2014	16-Oct-14	14					2771.8			
2014	16-Oct-14	15					2516.3			
2014	16-Oct-14	16					2432.1			
2014	16-Oct-14	17					2435.8			
2014	16-Oct-14	18					2482.4			
2014	16-Oct-14	19					2518.9			
2014	16-Oct-14	20					2590.4			
2014	16-Oct-14	21					2411.8			
2014	16-Oct-14	22					2404.9			
2014	16-Oct-14	23					2418.1			
2014	17-Oct-14	0					2408.7			
2014	17-Oct-14	1					2409.1			
2014	17-Oct-14	2					2416.9			
2014	17-Oct-14	3					2414.6			
2014	17-Oct-14	4					2418.5			
2014	17-Oct-14	5					2374.4			
2014	17-Oct-14	6					2419.8			
2014	17-Oct-14	7					2692			
2014	17-Oct-14	8					2689.3			
2014	17-Oct-14	9					2613.9			
2014	17-Oct-14	10					2345.7			
2014	17-Oct-14	11					2627.3			
2014	17-Oct-14	12					3094			
2014	17-Oct-14	13					2927.5			
2014	17-Oct-14	14					2880.3			
2014	17-Oct-14	15					2911.7			
2014	17-Oct-14	16					2658.2			
2014	17-Oct-14	17					2412.6			
2014	17-Oct-14	18				0	2583.9			
2014	17-Oct-14	19				0	2876.1			
2014	17-Oct-14	20				0	2902.1			
2014	17-Oct-14	21				0	2714.8			
2014	17-Oct-14	22				0	2467			
2014	17-Oct-14	23				0	1433.161			
2014	18-Oct-14	0				0				
2014	18-Oct-14	1				0				
2014	18-Oct-14	2				0				
2014	18-Oct-14	3				0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	18-Oct-14	4				0				
2014	18-Oct-14	5								
2014	18-Oct-14	6								
2014	18-Oct-14	7								
2014	18-Oct-14	8								
2014	18-Oct-14	9								
2014	18-Oct-14	10								
2014	18-Oct-14	11								
2014	18-Oct-14	12								
2014	18-Oct-14	13								
2014	18-Oct-14	14								
2014	18-Oct-14	15								
2014	18-Oct-14	16								
2014	18-Oct-14	17								
2014	18-Oct-14	18								
2014	18-Oct-14	19								
2014	18-Oct-14	20								
2014	18-Oct-14	21								
2014	18-Oct-14	22								
2014	18-Oct-14	23								
2014	19-Oct-14	0								
2014	19-Oct-14	1								
2014	19-Oct-14	2								
2014	19-Oct-14	3								
2014	19-Oct-14	4								
2014	19-Oct-14	5								
2014	19-Oct-14	6								
2014	19-Oct-14	7								
2014	19-Oct-14	8								
2014	19-Oct-14	9								
2014	19-Oct-14	10								
2014	19-Oct-14	11								
2014	19-Oct-14	12								
2014	19-Oct-14	13								
2014	19-Oct-14	14								
2014	19-Oct-14	15								
2014	19-Oct-14	16								
2014	19-Oct-14	17								
2014	19-Oct-14	18								
2014	19-Oct-14	19								
2014	19-Oct-14	20								
2014	19-Oct-14	21					0			
2014	19-Oct-14	22					0			
2014	19-Oct-14	23					372.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	20-Oct-14	0					471.9			
2014	20-Oct-14	1					476.9			
2014	20-Oct-14	2					390.2			
2014	20-Oct-14	3					384.4			
2014	20-Oct-14	4					496.3			
2014	20-Oct-14	5					1240.5			
2014	20-Oct-14	6					1943.4			
2014	20-Oct-14	7					2264.4			
2014	20-Oct-14	8					2670.5			
2014	20-Oct-14	9					3062.6			
2014	20-Oct-14	10					3349.4			
2014	20-Oct-14	11					3272.1			
2014	20-Oct-14	12					3485.6			
2014	20-Oct-14	13					3442.8			
2014	20-Oct-14	14					3387.1			
2014	20-Oct-14	15					3388			
2014	20-Oct-14	16					3355.4			
2014	20-Oct-14	17					3661			
2014	20-Oct-14	18					3832.7			
2014	20-Oct-14	19					3825.5			
2014	20-Oct-14	20					3713.9			
2014	20-Oct-14	21					3479.1			
2014	20-Oct-14	22					3028.5			
2014	20-Oct-14	23					2689.9			
2014	21-Oct-14	0					2407.2			
2014	21-Oct-14	1					2363.5			
2014	21-Oct-14	2					2377.1			
2014	21-Oct-14	3					2374.8			
2014	21-Oct-14	4					2383.4			
2014	21-Oct-14	5					2409.2			
2014	21-Oct-14	6					2729.4			
2014	21-Oct-14	7					2593.5			
2014	21-Oct-14	8					2433.5			
2014	21-Oct-14	9					2712.4			
2014	21-Oct-14	10					2505.7			
2014	21-Oct-14	11					2508.3			
2014	21-Oct-14	12					2666.5			
2014	21-Oct-14	13					2539.2			
2014	21-Oct-14	14					2520.7			
2014	21-Oct-14	15					2443.1			
2014	21-Oct-14	16					2450.7			
2014	21-Oct-14	17					2558.3			
2014	21-Oct-14	18					2800.4			
2014	21-Oct-14	19					2926			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	21-Oct-14	20					2986.9			
2014	21-Oct-14	21					2831.6			
2014	21-Oct-14	22					2477.6			
2014	21-Oct-14	23					2413.8			
2014	22-Oct-14	0					2429.8			
2014	22-Oct-14	1					2439.7			
2014	22-Oct-14	2					2432.6			
2014	22-Oct-14	3					2387			
2014	22-Oct-14	4					2514			
2014	22-Oct-14	5					2542.5			
2014	22-Oct-14	6					3030.8			
2014	22-Oct-14	7					3039.6			
2014	22-Oct-14	8					2842.6			
2014	22-Oct-14	9					2915.8			
2014	22-Oct-14	10					3364			
2014	22-Oct-14	11					3316			
2014	22-Oct-14	12					3486.2			
2014	22-Oct-14	13					3457.2			
2014	22-Oct-14	14					3222			
2014	22-Oct-14	15					3159.1			
2014	22-Oct-14	16					2898.5			
2014	22-Oct-14	17					2970			
2014	22-Oct-14	18					3385.2			
2014	22-Oct-14	19					3520.2			
2014	22-Oct-14	20					3572.9			
2014	22-Oct-14	21					3550.5			
2014	22-Oct-14	22					3319.2			
2014	22-Oct-14	23					2994.9			
2014	23-Oct-14	0					3071.8			
2014	23-Oct-14	1					3037			
2014	23-Oct-14	2					2723.9			
2014	23-Oct-14	3					2672			
2014	23-Oct-14	4					2585.9			
2014	23-Oct-14	5					2900			
2014	23-Oct-14	6					3437.5			
2014	23-Oct-14	7					3708			
2014	23-Oct-14	8					3509.1			
2014	23-Oct-14	9					3412.4			
2014	23-Oct-14	10					3436.3			
2014	23-Oct-14	11					3080			
2014	23-Oct-14	12					2819.3			
2014	23-Oct-14	13					2968.7			
2014	23-Oct-14	14					2985.7			
2014	23-Oct-14	15					2743.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	23-Oct-14	16					2689.4			
2014	23-Oct-14	17					2532.7			
2014	23-Oct-14	18					3042.4			
2014	23-Oct-14	19					3368.7			
2014	23-Oct-14	20					3603.1			
2014	23-Oct-14	21					3672.5			
2014	23-Oct-14	22					3669.7			
2014	23-Oct-14	23					3418.4			
2014	24-Oct-14	0					3127.6			
2014	24-Oct-14	1					3375.1			
2014	24-Oct-14	2					3238.9			
2014	24-Oct-14	3					3267.2			
2014	24-Oct-14	4					3071			
2014	24-Oct-14	5					3197.7			
2014	24-Oct-14	6					3354.1			
2014	24-Oct-14	7					3424.1			
2014	24-Oct-14	8					3693.5			
2014	24-Oct-14	9					3582.1			
2014	24-Oct-14	10					3548.5			
2014	24-Oct-14	11					3564.4			
2014	24-Oct-14	12					3563.6			
2014	24-Oct-14	13					3398.7			
2014	24-Oct-14	14					3401.8			
2014	24-Oct-14	15					2993.6			
2014	24-Oct-14	16					2711.9			
2014	24-Oct-14	17					2676.2			
2014	24-Oct-14	18					2737.6			
2014	24-Oct-14	19					2633.8			
2014	24-Oct-14	20					2407.4			
2014	24-Oct-14	21					2338			
2014	24-Oct-14	22					2263.6			
2014	24-Oct-14	23					2327.4			
2014	25-Oct-14	0					2424.3			
2014	25-Oct-14	1					2402.4			
2014	25-Oct-14	2					2379.7			
2014	25-Oct-14	3					2384.5			
2014	25-Oct-14	4					2520.6			
2014	25-Oct-14	5					2645.3			
2014	25-Oct-14	6					2731.4			
2014	25-Oct-14	7					2689.8			
2014	25-Oct-14	8					2911.3			
2014	25-Oct-14	9					3348.5			
2014	25-Oct-14	10					3485.4			
2014	25-Oct-14	11					3420.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Oct-14	12					3040			
2014	25-Oct-14	13					3064.4			
2014	25-Oct-14	14					2941.5			
2014	25-Oct-14	15					2677.5			
2014	25-Oct-14	16					2511.4			
2014	25-Oct-14	17					2454.5			
2014	25-Oct-14	18					2667.3			
2014	25-Oct-14	19					2499.8			
2014	25-Oct-14	20					2568.8			
2014	25-Oct-14	21					2503.7			
2014	25-Oct-14	22					2346.2			
2014	25-Oct-14	23					2283.8			
2014	26-Oct-14	0					2277.2			
2014	26-Oct-14	1					2346.5			
2014	26-Oct-14	2					2275.9			
2014	26-Oct-14	3					2284.7			
2014	26-Oct-14	4					2331			
2014	26-Oct-14	5					2373.9			
2014	26-Oct-14	6					2713.6			
2014	26-Oct-14	7					2772.7			
2014	26-Oct-14	8					3118.9			
2014	26-Oct-14	9					2950.4			
2014	26-Oct-14	10					2843.7			
2014	26-Oct-14	11					2896.9			
2014	26-Oct-14	12					3296.3			
2014	26-Oct-14	13					3564.2			
2014	26-Oct-14	14					3636.4			
2014	26-Oct-14	15					3706.8			
2014	26-Oct-14	16					3724.9			
2014	26-Oct-14	17					3516.8			
2014	26-Oct-14	18					3667.6			
2014	26-Oct-14	19					3491.5			
2014	26-Oct-14	20					3451.8			
2014	26-Oct-14	21					3243			
2014	26-Oct-14	22					3067.4			
2014	26-Oct-14	23					2811.3			
2014	27-Oct-14	0					2586.4			
2014	27-Oct-14	1					2493.3			
2014	27-Oct-14	2					2566.1			
2014	27-Oct-14	3					2875.6			
2014	27-Oct-14	4					3062.7			
2014	27-Oct-14	5					3442.1			
2014	27-Oct-14	6					3841			
2014	27-Oct-14	7					3903			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	27-Oct-14	8					3912.1			
2014	27-Oct-14	9				0	3921.3			
2014	27-Oct-14	10				0	3812.8			
2014	27-Oct-14	11				0	3787.4			
2014	27-Oct-14	12				0	3931.7			
2014	27-Oct-14	13				0	3910.7			
2014	27-Oct-14	14				0	3928.8			
2014	27-Oct-14	15				0	3883.2			
2014	27-Oct-14	16				0	3873.8			
2014	27-Oct-14	17				0	3861.6			
2014	27-Oct-14	18				0	4091.5			
2014	27-Oct-14	19				0	3918.7			
2014	27-Oct-14	20				0	3910.8			
2014	27-Oct-14	21				0	3730.1			
2014	27-Oct-14	22				0	3418.2			
2014	27-Oct-14	23				0	3017.7			
2014	28-Oct-14	0				0	2697.8			
2014	28-Oct-14	1				0	2556.1			
2014	28-Oct-14	2				0	2540.7			
2014	28-Oct-14	3				0	2803.5			
2014	28-Oct-14	4				0	3147.6			
2014	28-Oct-14	5				0	3303.8			
2014	28-Oct-14	6				0	3266.8			
2014	28-Oct-14	7				0.2	3224.1			
2014	28-Oct-14	8				0	3652.2			
2014	28-Oct-14	9				0	3990.1			
2014	28-Oct-14	10				0	3938.8			
2014	28-Oct-14	11				0	3960.9			
2014	28-Oct-14	12				0	3929.1			
2014	28-Oct-14	13				0	3922.9			
2014	28-Oct-14	14				0	3915.3			
2014	28-Oct-14	15				0	3968.4			
2014	28-Oct-14	16				0	4092.5			
2014	28-Oct-14	17				0	3990.2			
2014	28-Oct-14	18				0	3912.8			
2014	28-Oct-14	19				0	3857.1			
2014	28-Oct-14	20				0	3871.7			
2014	28-Oct-14	21				0	3784.8			
2014	28-Oct-14	22				0	3463.3			
2014	28-Oct-14	23				0	3079.1			
2014	29-Oct-14	0				0	2650.4			
2014	29-Oct-14	1				0	2419.4			
2014	29-Oct-14	2				0	2418.8			
2014	29-Oct-14	3				0	2515			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	29-Oct-14	4				0	3030.2			
2014	29-Oct-14	5				0	3568.6			
2014	29-Oct-14	6				0	3822.9			
2014	29-Oct-14	7				0.1	3889.4			
2014	29-Oct-14	8				0	3908.1			
2014	29-Oct-14	9				0	3906.9			
2014	29-Oct-14	10				0	3917.7			
2014	29-Oct-14	11				0	3934.4			
2014	29-Oct-14	12				0	3951.6			
2014	29-Oct-14	13				0	3921.1			
2014	29-Oct-14	14				0	3936			
2014	29-Oct-14	15				0	3830.2			
2014	29-Oct-14	16				0	3431.4			
2014	29-Oct-14	17				0	3417.5			
2014	29-Oct-14	18				0	3758.6			
2014	29-Oct-14	19				0	3908			
2014	29-Oct-14	20				0	3898.3			
2014	29-Oct-14	21				0	3776.3			
2014	29-Oct-14	22				0	3456.8			
2014	29-Oct-14	23				0	3037.7			
2014	30-Oct-14	0				0	2600.9			
2014	30-Oct-14	1				0	2423.2			
2014	30-Oct-14	2				0	2425.4			
2014	30-Oct-14	3				0	2483.5			
2014	30-Oct-14	4				0	2474.8			
2014	30-Oct-14	5				0	2659.7			
2014	30-Oct-14	6				0	3568			
2014	30-Oct-14	7				0.2	3940.7			
2014	30-Oct-14	8				0	3945.8			
2014	30-Oct-14	9				0	3913.1			
2014	30-Oct-14	10				0	3792			
2014	30-Oct-14	11				0	3560.8			
2014	30-Oct-14	12				0	3579.1			
2014	30-Oct-14	13				0	3371.2			
2014	30-Oct-14	14				0	3060.8			
2014	30-Oct-14	15				0	2636.8			
2014	30-Oct-14	16				0	2408.8			
2014	30-Oct-14	17				0	2574.8			
2014	30-Oct-14	18				0	3116.9			
2014	30-Oct-14	19				0	3353.4			
2014	30-Oct-14	20				0	3065.9			
2014	30-Oct-14	21				0	2953.6			
2014	30-Oct-14	22				0	2528.7			
2014	30-Oct-14	23				0	2402.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	31-Oct-14	0				0	2390.5			
2014	31-Oct-14	1				0	2395.7			
2014	31-Oct-14	2				0	2376.1			
2014	31-Oct-14	3				0	2373.8			
2014	31-Oct-14	4				0	2374.2			
2014	31-Oct-14	5				0	2465.7			
2014	31-Oct-14	6				0	2975.4			
2014	31-Oct-14	7				0.2	3176.1			
2014	31-Oct-14	8				0	3067.1			
2014	31-Oct-14	9				0	2824.9			
2014	31-Oct-14	10				0	2932.1			
2014	31-Oct-14	11				0	2777.8			
2014	31-Oct-14	12				0	2765.7			
2014	31-Oct-14	13				0	2633.2			
2014	31-Oct-14	14				0	2387.4			
2014	31-Oct-14	15				0	2351.6			
2014	31-Oct-14	16				0	2351.2			
2014	31-Oct-14	17				0	2353.8			
2014	31-Oct-14	18				0	2336.2			
2014	31-Oct-14	19				0	2338.7			
2014	31-Oct-14	20				0	2380.4			
2014	31-Oct-14	21				0	2352.1			
2014	31-Oct-14	22					2332.9			
2014	31-Oct-14	23					2333.8			
2014	1-Nov-14	0					2345.5			
2014	1-Nov-14	1					2356.9			
2014	1-Nov-14	2					2341.7			
2014	1-Nov-14	3					2333.9			
2014	1-Nov-14	4	0				2342.8			
2014	1-Nov-14	5	0				2305.1			
2014	1-Nov-14	6	1.7				2497.7			
2014	1-Nov-14	7	0.9				2786.2			
2014	1-Nov-14	8	0				2684.3			
2014	1-Nov-14	9	0				2954.8			
2014	1-Nov-14	10	0				3163.8			
2014	1-Nov-14	11	0				3353.2			
2014	1-Nov-14	12	0				3242.6			
2014	1-Nov-14	13	0				3022			
2014	1-Nov-14	14	0				2733.9			
2014	1-Nov-14	15	0				2458.8			
2014	1-Nov-14	16	0				2411.9			
2014	1-Nov-14	17	0				2492			
2014	1-Nov-14	18	0				2979.2			
2014	1-Nov-14	19	0				3360			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	1-Nov-14	20	0				3487.6			
2014	1-Nov-14	21	0				3481.3			
2014	1-Nov-14	22	0				3434.4			
2014	1-Nov-14	23	0				3117.8			
2014	2-Nov-14	0	0				3188.1			
2014	2-Nov-14	1	0				2851.5			
2014	2-Nov-14	2	0				2483			
2014	2-Nov-14	3	0				2381.6			
2014	2-Nov-14	4	0				2347			
2014	2-Nov-14	5	0				2307.8			
2014	2-Nov-14	6	3.6				2395.7			
2014	2-Nov-14	7	0				2674.9			
2014	2-Nov-14	8	0				3250.3			
2014	2-Nov-14	9	0				3546.5			
2014	2-Nov-14	10	0				3391.3			
2014	2-Nov-14	11	0				2959.2			
2014	2-Nov-14	12	0				2583			
2014	2-Nov-14	13	0				2378			
2014	2-Nov-14	14	31.2				2377.2			
2014	2-Nov-14	15	54.8				2359.8			
2014	2-Nov-14	16	144.8				2362.5			
2014	2-Nov-14	17	251.8				2509.2			
2014	2-Nov-14	18	300.2				2808.9			
2014	2-Nov-14	19	221.4				2659.9			
2014	2-Nov-14	20	63.9				2696.9			
2014	2-Nov-14	21	71.1				2465.3			
2014	2-Nov-14	22	62.3				2384.5			
2014	2-Nov-14	23	64.4				2359.3			
2014	3-Nov-14	0	67.5				2363.7			
2014	3-Nov-14	1	109.3				2387.8			
2014	3-Nov-14	2	155.2				2383.7			
2014	3-Nov-14	3	148				2384.8			
2014	3-Nov-14	4	117.1				2389.2			
2014	3-Nov-14	5	92.2				2456.6			
2014	3-Nov-14	6	134.7				2999.1			
2014	3-Nov-14	7	119.1				3019.5			
2014	3-Nov-14	8	96.4				2839.5			
2014	3-Nov-14	9	78.3				2738.8			
2014	3-Nov-14	10	96.6				2638.2			
2014	3-Nov-14	11	86.6				2486.3			
2014	3-Nov-14	12	93.4				2602			
2014	3-Nov-14	13	85.5				2580			
2014	3-Nov-14	14	88.5				2411			
2014	3-Nov-14	15	86.7				2410.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Nov-14	16	90.2				2426.6			
2014	3-Nov-14	17	91.9				2534.2			
2014	3-Nov-14	18	110				2787.7			
2014	3-Nov-14	19	101.2				2646.3			
2014	3-Nov-14	20	92.5				2585.2			
2014	3-Nov-14	21	86.5				2415			
2014	3-Nov-14	22	88.1				2415.9			
2014	3-Nov-14	23	82.6				2404.7			
2014	4-Nov-14	0	83.8				2402.5			
2014	4-Nov-14	1	80.9				2408.6			
2014	4-Nov-14	2	85.2				2415			
2014	4-Nov-14	3	88				2410			
2014	4-Nov-14	4	83.9				2413.1			
2014	4-Nov-14	5	88.3				2373.9			
2014	4-Nov-14	6	88				2398.4			
2014	4-Nov-14	7	88.7				2407.6			
2014	4-Nov-14	8	88.1				2521.3			
2014	4-Nov-14	9	87.9				2429.5			
2014	4-Nov-14	10	92.6				2422.9			
2014	4-Nov-14	11	92.9				2449.3			
2014	4-Nov-14	12	109.7				2598.1			
2014	4-Nov-14	13	91.6				2524.8			
2014	4-Nov-14	14	95.6				2487			
2014	4-Nov-14	15	93				2438.3			
2014	4-Nov-14	16	110.6				2634.9			
2014	4-Nov-14	17	134.6				2843.1			
2014	4-Nov-14	18	195.9				2912.1			
2014	4-Nov-14	19	171.1				2767.2			
2014	4-Nov-14	20	192.3				2879.7			
2014	4-Nov-14	21	180.7				2741.3			
2014	4-Nov-14	22	125.4				2429.9			
2014	4-Nov-14	23	93.1				2398.2			
2014	5-Nov-14	0	96.3				2393.2			
2014	5-Nov-14	1	92.4				2473.3			
2014	5-Nov-14	2	89.9				2633.7			
2014	5-Nov-14	3	90.6				2428.3			
2014	5-Nov-14	4	89.7				2419.9			
2014	5-Nov-14	5	268.6				2774.6			
2014	5-Nov-14	6	651.1				3393.1			
2014	5-Nov-14	7	788				3626.3			
2014	5-Nov-14	8	587.5				3346.8			
2014	5-Nov-14	9	667.8				3106.3			
2014	5-Nov-14	10	676.3				3339.9			
2014	5-Nov-14	11	632.9				3079.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	5-Nov-14	12	578.8				3028.9			
2014	5-Nov-14	13	660.4				3246.7			
2014	5-Nov-14	14	560.8				3219.2			
2014	5-Nov-14	15	380.8				2967.5			
2014	5-Nov-14	16	418.5				3009.5			
2014	5-Nov-14	17	507.4				3253.6			
2014	5-Nov-14	18	639.6				3526.4			
2014	5-Nov-14	19	729.7				3611.9			
2014	5-Nov-14	20	677.7				3390.6			
2014	5-Nov-14	21	658.9				3402.5			
2014	5-Nov-14	22	660.6				3048.5			
2014	5-Nov-14	23	512				2738.5			
2014	6-Nov-14	0	359.2				2437.8			
2014	6-Nov-14	1	239.8				2425.8			
2014	6-Nov-14	2	159				2395.8			
2014	6-Nov-14	3	130.6				2410			
2014	6-Nov-14	4	131.6				2407.3			
2014	6-Nov-14	5	122.4				2362			
2014	6-Nov-14	6	123				2551.1			
2014	6-Nov-14	7	129.4				2770.5			
2014	6-Nov-14	8	109				2672.8			
2014	6-Nov-14	9	132.7				2938.1			
2014	6-Nov-14	10	174.7				3022			
2014	6-Nov-14	11	203.6				2917.1			
2014	6-Nov-14	12	302.2				2996.2			
2014	6-Nov-14	13	547.9				3319.9			
2014	6-Nov-14	14	414.1				3010.1			
2014	6-Nov-14	15	325.4				2862.7			
2014	6-Nov-14	16	222.6				2843.3			
2014	6-Nov-14	17	236.2				2908.8			
2014	6-Nov-14	18	302				3014.5			
2014	6-Nov-14	19	313.9				3070.8			
2014	6-Nov-14	20	317.5				2960.4			
2014	6-Nov-14	21	256.5				2892.7			
2014	6-Nov-14	22	182.2				2719.9			
2014	6-Nov-14	23	358.8				2469.1			
2014	7-Nov-14	0	160.19				2378.6			
2014	7-Nov-14	1					2412.9			
2014	7-Nov-14	2					2390.6			
2014	7-Nov-14	3					2398.2			
2014	7-Nov-14	4					2401.1			
2014	7-Nov-14	5					2366.4			
2014	7-Nov-14	6					2396.2			
2014	7-Nov-14	7					2748.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	7-Nov-14	8					3320.4			
2014	7-Nov-14	9					3485.3			
2014	7-Nov-14	10					3359.1			
2014	7-Nov-14	11					3392.4			
2014	7-Nov-14	12					3670.5			
2014	7-Nov-14	13					3608.5			
2014	7-Nov-14	14					3582.4			
2014	7-Nov-14	15					3323.5			
2014	7-Nov-14	16					3028.8			
2014	7-Nov-14	17					2995.9			
2014	7-Nov-14	18					3252.1			
2014	7-Nov-14	19					3485.1			
2014	7-Nov-14	20					3443.9			
2014	7-Nov-14	21					3539.2			
2014	7-Nov-14	22					3459.5			
2014	7-Nov-14	23					3437.6			
2014	8-Nov-14	0					3525.4			
2014	8-Nov-14	1					3222.2			
2014	8-Nov-14	2					2798.2			
2014	8-Nov-14	3					2706.5			
2014	8-Nov-14	4					3070.2			
2014	8-Nov-14	5					3124.3			
2014	8-Nov-14	6					3034			
2014	8-Nov-14	7					3145.3			
2014	8-Nov-14	8					3289.1			
2014	8-Nov-14	9					2994.6			
2014	8-Nov-14	10					2982.8			
2014	8-Nov-14	11					2778.7			
2014	8-Nov-14	12					2629.5			
2014	8-Nov-14	13					2444.6			
2014	8-Nov-14	14					2405.7			
2014	8-Nov-14	15					2382.3			
2014	8-Nov-14	16					2391.6			
2014	8-Nov-14	17					2517			
2014	8-Nov-14	18					2498.2			
2014	8-Nov-14	19					2464.3			
2014	8-Nov-14	20					2413.6			
2014	8-Nov-14	21					2384.7			
2014	8-Nov-14	22					2373.9			
2014	8-Nov-14	23					2375.5			
2014	9-Nov-14	0					2378.7			
2014	9-Nov-14	1					2362.2			
2014	9-Nov-14	2					2368.3			
2014	9-Nov-14	3					2374.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	9-Nov-14	4					2360.4			
2014	9-Nov-14	5					2320.5			
2014	9-Nov-14	6					2370			
2014	9-Nov-14	7					2360.4			
2014	9-Nov-14	8	0				2354.2			
2014	9-Nov-14	9	0				2363.4			
2014	9-Nov-14	10	0			0	2360.7			
2014	9-Nov-14	11	0			0	2342.6			
2014	9-Nov-14	12	0			0.2	2345.5			
2014	9-Nov-14	13	0			0	2364.9			
2014	9-Nov-14	14	0			0	2374.1			
2014	9-Nov-14	15	2.1			0	2381.7			
2014	9-Nov-14	16	0			0	2378.3			
2014	9-Nov-14	17	0			0	2539.6			
2014	9-Nov-14	18	0			0	2587			
2014	9-Nov-14	19	0			0	2558.3			
2014	9-Nov-14	20	0			0	2470.5			
2014	9-Nov-14	21	24.1			0	2376.1			
2014	9-Nov-14	22	61.2			0	2376.8			
2014	9-Nov-14	23	98.7			0	2368.5			
2014	10-Nov-14	0	176.2			0	2365			
2014	10-Nov-14	1	259.8			0	2357.4			
2014	10-Nov-14	2	640.9			0	2370.8			
2014	10-Nov-14	3	417.1			0	2357.9			
2014	10-Nov-14	4	395.6			0	2354.4			
2014	10-Nov-14	5	541.9			0	2378			
2014	10-Nov-14	6	649.7			0	2589			
2014	10-Nov-14	7	580.6			1.9	2806.8			
2014	10-Nov-14	8	713.3			0	3109.3			
2014	10-Nov-14	9	657.2			0	3047.8			
2014	10-Nov-14	10	1086.5			0	3231.2			
2014	10-Nov-14	11	900.3			0	3206			
2014	10-Nov-14	12	852.4			0	3112.6			
2014	10-Nov-14	13	873.4			0	3141.8			
2014	10-Nov-14	14	890.2			0	2851.6			
2014	10-Nov-14	15	893.4			0	2731.1			
2014	10-Nov-14	16	916.7			0	2459.7			
2014	10-Nov-14	17	922.9			0	2575.1			
2014	10-Nov-14	18	739.6			0	3451			
2014	10-Nov-14	19	698.4			0	3446.8			
2014	10-Nov-14	20	592.6			0	3125.5			
2014	10-Nov-14	21	430.2			0	2706.7			
2014	10-Nov-14	22	362.1			0	2385.2			
2014	10-Nov-14	23	220.6			0	2393.2			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	11-Nov-14	0	144.9			0	2383.7			
2014	11-Nov-14	1	93.8			0	2368.6			
2014	11-Nov-14	2	77.6			0	2370.2			
2014	11-Nov-14	3	81.1			0	2382			
2014	11-Nov-14	4	77.6			0	2373.8			
2014	11-Nov-14	5	77.2			0	2334.8			
2014	11-Nov-14	6	89.9			0	2559.2			
2014	11-Nov-14	7	120			2.1	2831.4			
2014	11-Nov-14	8	169.2			0	3211.9			
2014	11-Nov-14	9	255.9			0	3460.4			
2014	11-Nov-14	10	447.9			0	3448.3			
2014	11-Nov-14	11	462.3			0	3430			
2014	11-Nov-14	12	489.3			0	3440.6			
2014	11-Nov-14	13	512.3			0	3324.6			
2014	11-Nov-14	14	386.8			0	3176.3			
2014	11-Nov-14	15	341			0	2906.3			
2014	11-Nov-14	16	373.3			0	3050.4			
2014	11-Nov-14	17	466.4			0	3509.7			
2014	11-Nov-14	18	745			0	3771.7			
2014	11-Nov-14	19	961.7			0	3877.9			
2014	11-Nov-14	20	928.3			0	3748.9			
2014	11-Nov-14	21	922.8			0	3568.3			
2014	11-Nov-14	22	674.4			0	3370.9			
2014	11-Nov-14	23	309.3			0	2996.9			
2014	12-Nov-14	0	180.1			0	2597.4			
2014	12-Nov-14	1	130.8			0	2366.4			
2014	12-Nov-14	2	80.1			0	2351.2			
2014	12-Nov-14	3	87.1			0	2352.4			
2014	12-Nov-14	4	94.7			0	2342.5			
2014	12-Nov-14	5	85.2			0	2322.5			
2014	12-Nov-14	6	93.3			0	2392.5			
2014	12-Nov-14	7	128.3			2	2737.1			
2014	12-Nov-14	8	171.9			0	2874			
2014	12-Nov-14	9	302.8			0	2985.6			
2014	12-Nov-14	10	461.1			0	3239.2			
2014	12-Nov-14	11	566.9			0	3315.8			
2014	12-Nov-14	12	700.3			0	3412.4			
2014	12-Nov-14	13	754.8			0	3231.7			
2014	12-Nov-14	14	492.2			0	2938.2			
2014	12-Nov-14	15	375.4			0	2764.6			
2014	12-Nov-14	16	216.2			0	2625.3			
2014	12-Nov-14	17	212.2			0	2636.3			
2014	12-Nov-14	18	171.6			0	2737.5			
2014	12-Nov-14	19	188.6			0	2820.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	12-Nov-14	20	193.5			0	2813.6			
2014	12-Nov-14	21	174			0	2791.9			
2014	12-Nov-14	22	144.4			0	2459			
2014	12-Nov-14	23	110.9			0	2367.5			
2014	13-Nov-14	0	82.3			0	2372			
2014	13-Nov-14	1	88.9			0	2370.8			
2014	13-Nov-14	2	84.9			0	2361.1			
2014	13-Nov-14	3	93.2			0	2362.7			
2014	13-Nov-14	4	93.1			0	2375.1			
2014	13-Nov-14	5	90.9			0	2338.2			
2014	13-Nov-14	6	105.2			0	2455.2			
2014	13-Nov-14	7	147.5			1.7	2813.5			
2014	13-Nov-14	8	161.3			0	2883.9			
2014	13-Nov-14	9	186.3			0	3066.7			
2014	13-Nov-14	10	292			0	3140.5			
2014	13-Nov-14	11	440.1			0	3340.8			
2014	13-Nov-14	12	633.4			0	3331.3			
2014	13-Nov-14	13	696.1			0	3369			
2014	13-Nov-14	14	757.8			0	3474.1			
2014	13-Nov-14	15	687.6			0	3557.9			
2014	13-Nov-14	16	673.8			0	3578.3			
2014	13-Nov-14	17	710.4			0	3536			
2014	13-Nov-14	18	624.3			0	3561.2			
2014	13-Nov-14	19	719.1			0	3539.4			
2014	13-Nov-14	20	671.5			0	3629.3			
2014	13-Nov-14	21	625.8			0	3501.4			
2014	13-Nov-14	22	458.4			0	3262.7			
2014	13-Nov-14	23	292			0	2795.3			
2014	14-Nov-14	0	202.6			0	2443.5			
2014	14-Nov-14	1	128.3			0	2366.1			
2014	14-Nov-14	2	103.8			0	2330.5			
2014	14-Nov-14	3	105.3			0	2335.3			
2014	14-Nov-14	4	89.8			0	2344.1			
2014	14-Nov-14	5	88.1			0	2313.6			
2014	14-Nov-14	6	106.2			0	2513			
2014	14-Nov-14	7	127.3			3.1	3083.3			
2014	14-Nov-14	8	110			0	2993.8			
2014	14-Nov-14	9	93.8			0	2924.9			
2014	14-Nov-14	10	98.3			0	2913.3			
2014	14-Nov-14	11	135.5			0	3114			
2014	14-Nov-14	12	132.7			0	2885.7			
2014	14-Nov-14	13	104.8			0	2987.5			
2014	14-Nov-14	14	132.6			0	3160.1			
2014	14-Nov-14	15	123.6			0	2874.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Nov-14	16	95.6			0	2805.8			
2014	14-Nov-14	17	107.7			0	2953			
2014	14-Nov-14	18	169.3			0	3302.9			
2014	14-Nov-14	19	157			0	3276.4			
2014	14-Nov-14	20	235.2			0	3271			
2014	14-Nov-14	21	396.2			0	3466.1			
2014	14-Nov-14	22	387.4			0	3352.4			
2014	14-Nov-14	23	271.6			0	3021.7			
2014	15-Nov-14	0	280.8			0	2896.8			
2014	15-Nov-14	1	168.3			0	2503.2			
2014	15-Nov-14	2	141.4			0	2403.3			
2014	15-Nov-14	3	113.7			0	2458.9			
2014	15-Nov-14	4	101.8			0	2474.4			
2014	15-Nov-14	5	106.5			0	2590.9			
2014	15-Nov-14	6	88.3			0	2626.1			
2014	15-Nov-14	7	96			2.3	2542.6			
2014	15-Nov-14	8	101.9			2	2659.7			
2014	15-Nov-14	9	98.6			2.4	2672.2			
2014	15-Nov-14	10	91.3			1.6	2579.5			
2014	15-Nov-14	11	81.1			0	2329.2			
2014	15-Nov-14	12	80.1			0	2275.6			
2014	15-Nov-14	13	82.9			0	2284.2			
2014	15-Nov-14	14	81.7			0	2287.3			
2014	15-Nov-14	15	84.3			0	2293.1			
2014	15-Nov-14	16	83.9			0	2345.6			
2014	15-Nov-14	17	90.3			0	2558			
2014	15-Nov-14	18	104.7			0	2728.2			
2014	15-Nov-14	19	92.7			0	2748			
2014	15-Nov-14	20	86.3			0	2648.3			
2014	15-Nov-14	21	91.1			0	2562.1			
2014	15-Nov-14	22	100.3			0	2473.6			
2014	15-Nov-14	23	97.5			0	2340.3			
2014	16-Nov-14	0	89.9			0	2354.4			
2014	16-Nov-14	1	94.5			0	2284.2			
2014	16-Nov-14	2	95.7			0	2256.9			
2014	16-Nov-14	3	88.3			0	2299.5			
2014	16-Nov-14	4	88.3			0	2279.3			
2014	16-Nov-14	5	97			0	2244.3			
2014	16-Nov-14	6	92.4			0	2289.5			
2014	16-Nov-14	7	91			0.8	2287.7			
2014	16-Nov-14	8	94			0	2317.6			
2014	16-Nov-14	9	92.4			0	2301.5			
2014	16-Nov-14	10	90.8			0	2311.7			
2014	16-Nov-14	11	87.4			0	2294.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	16-Nov-14	12	88.2			0	2338.7			
2014	16-Nov-14	13	89.8			0	2444.2			
2014	16-Nov-14	14	89.9			0	2416.5			
2014	16-Nov-14	15	95.9			0	2631.2			
2014	16-Nov-14	16	118.6			0	2929.9			
2014	16-Nov-14	17	142.3			0	3377.3			
2014	16-Nov-14	18	122.9			0	3024.7			
2014	16-Nov-14	19	98.3			0	2884.6			
2014	16-Nov-14	20	92			0	2616.2			
2014	16-Nov-14	21	103			0	2400.1			
2014	16-Nov-14	22	111.5			0	2378			
2014	16-Nov-14	23	104.2			0	2395.2			
2014	17-Nov-14	0	94.5			0	2332.4			
2014	17-Nov-14	1	96.2			0	2360.8			
2014	17-Nov-14	2	99.2			0	2356.6			
2014	17-Nov-14	3	108.9			0	2354.8			
2014	17-Nov-14	4	113.2			156.3	2350.7			
2014	17-Nov-14	5	105.1			305	2325.3			
2014	17-Nov-14	6	95.3			603.3	2345			
2014	17-Nov-14	7	100.3			592.3	2337.3			
2014	17-Nov-14	8	103.9			623.2	2456.6			
2014	17-Nov-14	9	97			701	2646.9			
2014	17-Nov-14	10	101.2			716.7	2880.1			
2014	17-Nov-14	11	41.1			726.4	2977.3			
2014	17-Nov-14	12	51			684.1	3280.8			
2014	17-Nov-14	13	113.1			781.4	3462.6			
2014	17-Nov-14	14	166.7			702.9	3436.7			
2014	17-Nov-14	15	251.6			701.2	3395.4			
2014	17-Nov-14	16	283.3			720.9	3285.1			
2014	17-Nov-14	17	361.5			723.2	3390.5			
2014	17-Nov-14	18	491.3			713	3407.4		0	
2014	17-Nov-14	19	240.4			692.3	3039.2		0	
2014	17-Nov-14	20	203.9			681.2	2969.1		0	
2014	17-Nov-14	21	144.8			701.4	2739.7		0	
2014	17-Nov-14	22	103			697.2	2437.1		14	
2014	17-Nov-14	23	100.8			694.3	2343.4		23.9	
2014	18-Nov-14	0	104.6			690.3	2341.8		28.1	
2014	18-Nov-14	1	115.5			692.5	2330.4		31.5	
2014	18-Nov-14	2	105.1			692.5	2329.1		32.5	
2014	18-Nov-14	3	111.6			688.2	2307.9		39.8	
2014	18-Nov-14	4	109			685.5	2314.1		37.8	
2014	18-Nov-14	5	99.3			680.7	2499.4		34.2	
2014	18-Nov-14	6	150.7			837.4	3072.8		49	
2014	18-Nov-14	7	184.2			846.6	3373.8		82.5	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	18-Nov-14	8	185.3			744.2	3400.1		78.4	
2014	18-Nov-14	9	275.8			667.4	3573.3		64.3	
2014	18-Nov-14	10	427.8			873	3740.7		69	
2014	18-Nov-14	11	864.6			1290.8	3792.1		110	
2014	18-Nov-14	12	882.1			1491.3	3844.8		178.2	
2014	18-Nov-14	13	820.7			1639.2	3870.1		280.1	
2014	18-Nov-14	14	788.5			1558.4	3796.3		306.3	
2014	18-Nov-14	15	840.6			1760.7	3704.2		445.4	
2014	18-Nov-14	16	749.2			1811.6	3804.4		572.7	
2014	18-Nov-14	17	742.8			1804.5	3862.4		883.9	
2014	18-Nov-14	18	749.3			1751.9	3852.6		935.1	
2014	18-Nov-14	19	767.4			1767.3	3832.7		902.9	
2014	18-Nov-14	20	754.5			1733.6	3828.1		881.5	
2014	18-Nov-14	21	759			1442.2	3827.5		795.4	
2014	18-Nov-14	22	724.1			1424.3	3783.7		752.6	
2014	18-Nov-14	23	806.6			1162.4	3791.4		703.8	
2014	19-Nov-14	0	813.6			1126.1	3799.8		654.9	
2014	19-Nov-14	1	816			836.8	3837.6		529.4	
2014	19-Nov-14	2	855			584.6	3756.8		483.5	
2014	19-Nov-14	3	826.1			595.7	3691.8		475	
2014	19-Nov-14	4	790			575.3	3669.8		475.2	
2014	19-Nov-14	5	785.7			564.3	3582.6		507.5	
2014	19-Nov-14	6	878.7			803.4	3889.7		800.3	
2014	19-Nov-14	7	889.6			1322.4	3905.6		939.5	
2014	19-Nov-14	8	932.9			1334.8	3804.8		851.4	
2014	19-Nov-14	9	857.5			1208.3	3670.3		690.6	
2014	19-Nov-14	10	864.2			1055.1	3751.8		652.1	
2014	19-Nov-14	11	921.1			1262.8	3819.1		623.3	
2014	19-Nov-14	12	892.8			1256.9	3805.6		624.1	
2014	19-Nov-14	13	750.8			1227	3746.7		599.3	
2014	19-Nov-14	14	633.3			1191	3485		537.2	
2014	19-Nov-14	15	475.5			1167.4	3319.7		507.2	
2014	19-Nov-14	16	431.8			1120.8	3370		560.3	
2014	19-Nov-14	17	653.2			1093.8	3670.3		750.6	
2014	19-Nov-14	18	660.9			1068.3	3775.4		850.6	
2014	19-Nov-14	19	739.1			1068.1	3812.4		772.2	
2014	19-Nov-14	20	613.5			1013.5	3804.6		825.8	
2014	19-Nov-14	21	584.2			1043.4	3727.4		610.9	
2014	19-Nov-14	22	419.4			1046.8	3497.6		464.7	
2014	19-Nov-14	23	319.1			1041.5	3182.9		457.7	
2014	20-Nov-14	0	216.3			1031.5	2779.6		464.9	
2014	20-Nov-14	1	150.1			1024.9	2344.7		471.6	
2014	20-Nov-14	2	100.1			1009.8	2311.9		478.3	
2014	20-Nov-14	3	85.9			951.9	2291.7		479.1	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	20-Nov-14	4	81.6			820.4	2313.5		483.8	
2014	20-Nov-14	5	84.1			866.6	2272		487.6	
2014	20-Nov-14	6	92.5			1054.6	2545.7		490.2	
2014	20-Nov-14	7	154.5			1120.8	2954.3		518.1	
2014	20-Nov-14	8	220.6			1138.6	3117.7		493.6	
2014	20-Nov-14	9	392.4			1116	3405.8		494.4	
2014	20-Nov-14	10	361.1			1094.5	3286.8		502.5	
2014	20-Nov-14	11	357.5			1092.4	2826		515.4	
2014	20-Nov-14	12	356.2			1108.9	2523		525.1	
2014	20-Nov-14	13	304.1			1117	2381.2		528.3	
2014	20-Nov-14	14	266.5			1118.7	2291.8		538.9	
2014	20-Nov-14	15	187.5			1136.6	2274.1		540.7	
2014	20-Nov-14	16	191.7			1095.1	2526.2		541.2	
2014	20-Nov-14	17	213.1			1148	2916.1		568.9	
2014	20-Nov-14	18	316.4			1069	3289.4		569.6	
2014	20-Nov-14	19	486.7			802.1	3430.3		536.3	
2014	20-Nov-14	20	590			564.5	3413.8		539	
2014	20-Nov-14	21	592.9			437.8	3378		547.5	
2014	20-Nov-14	22	423.9			393.4	3012		539.3	
2014	20-Nov-14	23	324.7			383.4	2600.1		531.2	
2014	21-Nov-14	0	206.7			277.4	2427.2		417.4	
2014	21-Nov-14	1	149.7			0	2341		51.7	
2014	21-Nov-14	2	115			0	2326.7			
2014	21-Nov-14	3	118.6			0	2398.1			
2014	21-Nov-14	4	126.4			0	2676.6			
2014	21-Nov-14	5	119.9			0	2708.1			
2014	21-Nov-14	6	211.2			0	2964.1			
2014	21-Nov-14	7	551.4			2.1	3534.1			
2014	21-Nov-14	8	891.5			0	3519.1			
2014	21-Nov-14	9	969.8			0	3530.5			
2014	21-Nov-14	10	985.3			0	3732.8			
2014	21-Nov-14	11	894			0	3598.4			
2014	21-Nov-14	12	582.4			0	3226.9			
2014	21-Nov-14	13	400.1			0	2914			
2014	21-Nov-14	14	443.3			0	2874.6			
2014	21-Nov-14	15	324.2			0	2911.1			
2014	21-Nov-14	16	586.6			0	3225.3			
2014	21-Nov-14	17	899.5			0	3603.4			
2014	21-Nov-14	18	1128.8			0	3771.5			
2014	21-Nov-14	19	1187.2			0	3785.2			
2014	21-Nov-14	20	1017.5			0	3748.2			
2014	21-Nov-14	21	1036			0	3726.9			
2014	21-Nov-14	22	642.2			0	3468.7			
2014	21-Nov-14	23	424.9			0	3144.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	22-Nov-14	0	477.7			0	2605.8			
2014	22-Nov-14	1	469.7			0	1517.3			
2014	22-Nov-14	2	492.3			0	202.235			
2014	22-Nov-14	3	457.5			0				
2014	22-Nov-14	4	507.1			0				
2014	22-Nov-14	5	499			0				
2014	22-Nov-14	6	478.7			0				
2014	22-Nov-14	7	456.1			2.2				
2014	22-Nov-14	8	674.6			0				
2014	22-Nov-14	9	1182.5			0				
2014	22-Nov-14	10	794.9			0				
2014	22-Nov-14	11	715.5			0				
2014	22-Nov-14	12	553.6			0				
2014	22-Nov-14	13	370.2			0				
2014	22-Nov-14	14	253.8							
2014	22-Nov-14	15	272.5			0				
2014	22-Nov-14	16	544.5			0				
2014	22-Nov-14	17	150.5			0.3				
2014	22-Nov-14	18	188			0				
2014	22-Nov-14	19	144.5			0				
2014	22-Nov-14	20	111			0				
2014	22-Nov-14	21	104.9			0				
2014	22-Nov-14	22	107.3			0				
2014	22-Nov-14	23	116.4			0				
2014	23-Nov-14	0	116.1			0				
2014	23-Nov-14	1	108.9			0				
2014	23-Nov-14	2	115.9			0				
2014	23-Nov-14	3	110.5							
2014	23-Nov-14	4	115.7			0				
2014	23-Nov-14	5	112.6			0				
2014	23-Nov-14	6	113.6			0.8				
2014	23-Nov-14	7	128.3			1.1				
2014	23-Nov-14	8	129			0				
2014	23-Nov-14	9	108.6			0				
2014	23-Nov-14	10	116.7			0				
2014	23-Nov-14	11	119			0				
2014	23-Nov-14	12	101			0				
2014	23-Nov-14	13	100.9			0				
2014	23-Nov-14	14	107.9			0				
2014	23-Nov-14	15	113.2			0				
2014	23-Nov-14	16	115.4			0				
2014	23-Nov-14	17	148.1			0				
2014	23-Nov-14	18	129.1			0				
2014	23-Nov-14	19	123.7			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	23-Nov-14	20	120.1			0				
2014	23-Nov-14	21	118			0				
2014	23-Nov-14	22	116.3			0				
2014	23-Nov-14	23	118.9			0				
2014	24-Nov-14	0	117.5			0				
2014	24-Nov-14	1	127			0				
2014	24-Nov-14	2	122.9			0				
2014	24-Nov-14	3	122.8			0				
2014	24-Nov-14	4	121.7			0				
2014	24-Nov-14	5	116.6			0				
2014	24-Nov-14	6	110.8			0				
2014	24-Nov-14	7	131.1			3.6				
2014	24-Nov-14	8	122.1			0				
2014	24-Nov-14	9	121.1							
2014	24-Nov-14	10	111.9							
2014	24-Nov-14	11	115.5							
2014	24-Nov-14	12	116.1							
2014	24-Nov-14	13	123.2							
2014	24-Nov-14	14	119							
2014	24-Nov-14	15	113.1							
2014	24-Nov-14	16	110.9							
2014	24-Nov-14	17	156							
2014	24-Nov-14	18	142.8							
2014	24-Nov-14	19	117.1							
2014	24-Nov-14	20	117.6							
2014	24-Nov-14	21	114.8							
2014	24-Nov-14	22	124							
2014	24-Nov-14	23	124.2							
2014	25-Nov-14	0	130.3							
2014	25-Nov-14	1	127.1							
2014	25-Nov-14	2	125							
2014	25-Nov-14	3	124.9							
2014	25-Nov-14	4	123.2							
2014	25-Nov-14	5	121.7							
2014	25-Nov-14	6	117							
2014	25-Nov-14	7	130.9							
2014	25-Nov-14	8	127.9							
2014	25-Nov-14	9	114.9							
2014	25-Nov-14	10	113.2							
2014	25-Nov-14	11	116.5							
2014	25-Nov-14	12	118.3							
2014	25-Nov-14	13	112.9							
2014	25-Nov-14	14	110.2							
2014	25-Nov-14	15	112.4							



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Nov-14	16	113.9							
2014	25-Nov-14	17	140.4							
2014	25-Nov-14	18	183.1							
2014	25-Nov-14	19	143.9							
2014	25-Nov-14	20	155.2							
2014	25-Nov-14	21	131.5							
2014	25-Nov-14	22	125.8							
2014	25-Nov-14	23	126.4							
2014	26-Nov-14	0	129.6							
2014	26-Nov-14	1	124.6							
2014	26-Nov-14	2	126.2							
2014	26-Nov-14	3	124							
2014	26-Nov-14	4	129.2							
2014	26-Nov-14	5	135.3							
2014	26-Nov-14	6	128.1							
2014	26-Nov-14	7	152.5							
2014	26-Nov-14	8	148.6							
2014	26-Nov-14	9	173.9							
2014	26-Nov-14	10	237.9							
2014	26-Nov-14	11	271.7							
2014	26-Nov-14	12	282.9							
2014	26-Nov-14	13	304							
2014	26-Nov-14	14	235.2							
2014	26-Nov-14	15	256.5							
2014	26-Nov-14	16	244.2							
2014	26-Nov-14	17	349.6							
2014	26-Nov-14	18	259.3							
2014	26-Nov-14	19	225.7							
2014	26-Nov-14	20	170.7							
2014	26-Nov-14	21	141							
2014	26-Nov-14	22	151							
2014	26-Nov-14	23	146.3							
2014	27-Nov-14	0	152.1							
2014	27-Nov-14	1	139.2							
2014	27-Nov-14	2	156.8							
2014	27-Nov-14	3	143.5							
2014	27-Nov-14	4	138.9							
2014	27-Nov-14	5	147.8							
2014	27-Nov-14	6	146							
2014	27-Nov-14	7	144.5							
2014	27-Nov-14	8	142.7							
2014	27-Nov-14	9	121.9							
2014	27-Nov-14	10	134							
2014	27-Nov-14	11	156.7							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	27-Nov-14	12	150.3							
2014	27-Nov-14	13	119.5							
2014	27-Nov-14	14	137.5							
2014	27-Nov-14	15	144.8							
2014	27-Nov-14	16	143.8							
2014	27-Nov-14	17	152.3							
2014	27-Nov-14	18	153							
2014	27-Nov-14	19	146.3							
2014	27-Nov-14	20	148.8							
2014	27-Nov-14	21	154.9							
2014	27-Nov-14	22	152.7							
2014	27-Nov-14	23	150							
2014	28-Nov-14	0	157.3							
2014	28-Nov-14	1	156.2							
2014	28-Nov-14	2	159.7							
2014	28-Nov-14	3	162.2							
2014	28-Nov-14	4	164.1							
2014	28-Nov-14	5	167.1							
2014	28-Nov-14	6	188.1							
2014	28-Nov-14	7	196.2							
2014	28-Nov-14	8	269.7							
2014	28-Nov-14	9	440.4							
2014	28-Nov-14	10	554.7							
2014	28-Nov-14	11	546.1							
2014	28-Nov-14	12	303.2							
2014	28-Nov-14	13	249.5							
2014	28-Nov-14	14	189.1							
2014	28-Nov-14	15	161.8							
2014	28-Nov-14	16	166.8							
2014	28-Nov-14	17	240.3							
2014	28-Nov-14	18	294.7							
2014	28-Nov-14	19	347.1							
2014	28-Nov-14	20	498.3							
2014	28-Nov-14	21	602.8							
2014	28-Nov-14	22	564.4							
2014	28-Nov-14	23	472.1							
2014	29-Nov-14	0	377							
2014	29-Nov-14	1	315.9							
2014	29-Nov-14	2	258.8							
2014	29-Nov-14	3	227.8							
2014	29-Nov-14	4	221.1							
2014	29-Nov-14	5	225							
2014	29-Nov-14	6	200.8							
2014	29-Nov-14	7	217							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	29-Nov-14	8	206.3							
2014	29-Nov-14	9	170.7							
2014	29-Nov-14	10	177							
2014	29-Nov-14	11	178.7							
2014	29-Nov-14	12	168.5							
2014	29-Nov-14	13	165.9							
2014	29-Nov-14	14	173.3							
2014	29-Nov-14	15	169.1							
2014	29-Nov-14	16	167.4							
2014	29-Nov-14	17	167.2							
2014	29-Nov-14	18	178.4							
2014	29-Nov-14	19	179.7							
2014	29-Nov-14	20	166.2							
2014	29-Nov-14	21	194.9							
2014	29-Nov-14	22	179.8							
2014	29-Nov-14	23	139.1							
2014	30-Nov-14	0	138.3							
2014	30-Nov-14	1	143.1							
2014	30-Nov-14	2	137.7							
2014	30-Nov-14	3	136.5							
2014	30-Nov-14	4	132.9							
2014	30-Nov-14	5	127.9							
2014	30-Nov-14	6	127.5							
2014	30-Nov-14	7	142.2							
2014	30-Nov-14	8	134.6							
2014	30-Nov-14	9	130.7							
2014	30-Nov-14	10	136.3							
2014	30-Nov-14	11	183.2							
2014	30-Nov-14	12	163							
2014	30-Nov-14	13	144.7							
2014	30-Nov-14	14	135.7							
2014	30-Nov-14	15	139							
2014	30-Nov-14	16	134.1							
2014	30-Nov-14	17	134.7							
2014	30-Nov-14	18	134.4							
2014	30-Nov-14	19	131.8							
2014	30-Nov-14	20	137.8							
2014	30-Nov-14	21	141							
2014	30-Nov-14	22	145.5							
2014	30-Nov-14	23	143							
2014	1-Dec-14	0	152.5							
2014	1-Dec-14	1	159.2							
2014	1-Dec-14	2	152						0	
2014	1-Dec-14	3	157						0	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	1-Dec-14	4	156.8						0	
2014	1-Dec-14	5	155.8						0.5	
2014	1-Dec-14	6	157						9	
2014	1-Dec-14	7	172.9						34.6	
2014	1-Dec-14	8	171.2						36.8	
2014	1-Dec-14	9	145.6						39.5	
2014	1-Dec-14	10	146.7						42	
2014	1-Dec-14	11	139.7						46.1	
2014	1-Dec-14	12	140.8						47.6	
2014	1-Dec-14	13	143.1						51.9	
2014	1-Dec-14	14	142.6						57.9	
2014	1-Dec-14	15	139.9						53.8	
2014	1-Dec-14	16	144.9						78.5	
2014	1-Dec-14	17	147.4						80.5	
2014	1-Dec-14	18	180.5						67.9	
2014	1-Dec-14	19	166.8						61.4	
2014	1-Dec-14	20	180.3						80.9	
2014	1-Dec-14	21	142.6						124.6	
2014	1-Dec-14	22	140						193	
2014	1-Dec-14	23	139.8						253.2	
2014	2-Dec-14	0	138.7						328.2	
2014	2-Dec-14	1	147.2						347.8	
2014	2-Dec-14	2	142.8						542.3	
2014	2-Dec-14	3	144.5						572.1	
2014	2-Dec-14	4	144.2						567.5	
2014	2-Dec-14	5	138.6						540.2	
2014	2-Dec-14	6	143.8						525.9	
2014	2-Dec-14	7	156						532.1	
2014	2-Dec-14	8	139.3						700	
2014	2-Dec-14	9	130.3						843.7	
2014	2-Dec-14	10	148			0			959.9	
2014	2-Dec-14	11	202.3			0			944.9	
2014	2-Dec-14	12	253.6			0.1			941.4	
2014	2-Dec-14	13	379.6			0			957.5	
2014	2-Dec-14	14	296.9			0			885.2	
2014	2-Dec-14	15	220.7			0			872.7	
2014	2-Dec-14	16	203.8			0			672.7	
2014	2-Dec-14	17	266			0			629.8	
2014	2-Dec-14	18	317.4			0			634.1	
2014	2-Dec-14	19	490.2			0			665.7	
2014	2-Dec-14	20	417.2			0			865	
2014	2-Dec-14	21	351.9			0			838.6	
2014	2-Dec-14	22	245.4			0			874	
2014	2-Dec-14	23	205.5			0			885.3	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	3-Dec-14	0	170.1			0			773.1	
2014	3-Dec-14	1	154.5			0			596.1	
2014	3-Dec-14	2	145.6			0			483.2	
2014	3-Dec-14	3	142.7			0			491.6	
2014	3-Dec-14	4	135.5			0			498.7	
2014	3-Dec-14	5	141.1			0			492.4	
2014	3-Dec-14	6	177.8			0			726.2	
2014	3-Dec-14	7	369.3			0.6			861.2	
2014	3-Dec-14	8	478.5			0			818.5	
2014	3-Dec-14	9	440.7			0			809.6	
2014	3-Dec-14	10	601.9			0			825.4	
2014	3-Dec-14	11	611.9			0			832.6	
2014	3-Dec-14	12	483.8			0			828.8	
2014	3-Dec-14	13	462.7			0			828.4	
2014	3-Dec-14	14	398.5			0			855.6	
2014	3-Dec-14	15	237.2			0			629.1	
2014	3-Dec-14	16	233.5			0			419.4	
2014	3-Dec-14	17	296.9			0			225.2	
2014	3-Dec-14	18	453.4			0			134.7	
2014	3-Dec-14	19	594.7			0			162.2	
2014	3-Dec-14	20	614.3			0			38.99	
2014	3-Dec-14	21	575.1			0				
2014	3-Dec-14	22	531			0				
2014	3-Dec-14	23	394.4			0				
2014	4-Dec-14	0	268.3			0				
2014	4-Dec-14	1	194.6			0				
2014	4-Dec-14	2	147.7			0				
2014	4-Dec-14	3	124.3			0				
2014	4-Dec-14	4	105.1			0				
2014	4-Dec-14	5	113.4			0				
2014	4-Dec-14	6	308.6			0				
2014	4-Dec-14	7	919.5			3				
2014	4-Dec-14	8	946.1			0				
2014	4-Dec-14	9	976.9			0				
2014	4-Dec-14	10	929.2			0				
2014	4-Dec-14	11	543.7			0				
2014	4-Dec-14	12	515.3			0				
2014	4-Dec-14	13	390			0				
2014	4-Dec-14	14	342.2			0				
2014	4-Dec-14	15	214.1			0				
2014	4-Dec-14	16	185.4			0				
2014	4-Dec-14	17	182.5			0				
2014	4-Dec-14	18	167.6			0				
2014	4-Dec-14	19	163.9			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	4-Dec-14	20	155.1			0				
2014	4-Dec-14	21	146.8			0				
2014	4-Dec-14	22	135.3			0				
2014	4-Dec-14	23	105.5			0				
2014	5-Dec-14	0	82.5			0				
2014	5-Dec-14	1	76.2			0				
2014	5-Dec-14	2	72.3			0				
2014	5-Dec-14	3	72.2			0				
2014	5-Dec-14	4	72.3			0				
2014	5-Dec-14	5	68.5			0				
2014	5-Dec-14	6	69			0				
2014	5-Dec-14	7	95.1			1.9				
2014	5-Dec-14	8	102			0				
2014	5-Dec-14	9	94			0				
2014	5-Dec-14	10	86.4			0				
2014	5-Dec-14	11	105.6			0				
2014	5-Dec-14	12	95.4			0				
2014	5-Dec-14	13	88.8			0				
2014	5-Dec-14	14	77.4			0				
2014	5-Dec-14	15	75.4			0				
2014	5-Dec-14	16	113.3			0				
2014	5-Dec-14	17	131.1			0				
2014	5-Dec-14	18	113.4			0				
2014	5-Dec-14	19	102			0				
2014	5-Dec-14	20	105.4			0				
2014	5-Dec-14	21	112.2			0				
2014	5-Dec-14	22	107.5			0				
2014	5-Dec-14	23	111.7			0				
2014	6-Dec-14	0	117.3			0				
2014	6-Dec-14	1	109.9			0				
2014	6-Dec-14	2	96.6			0				
2014	6-Dec-14	3	90.3			0				
2014	6-Dec-14	4	80.8			0				
2014	6-Dec-14	5	77.5			0				
2014	6-Dec-14	6	72.1			0				
2014	6-Dec-14	7	88.6			1.1				
2014	6-Dec-14	8	82.6			0				
2014	6-Dec-14	9	78.9			0				
2014	6-Dec-14	10	93.7			0				
2014	6-Dec-14	11	82.2			0				
2014	6-Dec-14	12	78			0				
2014	6-Dec-14	13	78.7			0				
2014	6-Dec-14	14	83.5			0				
2014	6-Dec-14	15	87.7			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	6-Dec-14	16	101.4			0				
2014	6-Dec-14	17	109.5			0				
2014	6-Dec-14	18	123.7	0		0				
2014	6-Dec-14	19	111.9	0		0				
2014	6-Dec-14	20	123.2	0		0				
2014	6-Dec-14	21	135.4	0		0				
2014	6-Dec-14	22	138.8	3.3		0				
2014	6-Dec-14	23	137.3	2.5		0				
2014	7-Dec-14	0	137.9	0.8		0				
2014	7-Dec-14	1	126.2	0		0				
2014	7-Dec-14	2	129.9	0		0				
2014	7-Dec-14	3	130.8	0		0				
2014	7-Dec-14	4	138.6	0		0				
2014	7-Dec-14	5	140.5	0		0				
2014	7-Dec-14	6	149.2	0		0				
2014	7-Dec-14	7	187.9	0		2.2				
2014	7-Dec-14	8	220.4	0		0				
2014	7-Dec-14	9	286.6	0		0				
2014	7-Dec-14	10	333.7	0		0				
2014	7-Dec-14	11	276.5	0		0				
2014	7-Dec-14	12	204.1	6		0				
2014	7-Dec-14	13	177.9	2		0				
2014	7-Dec-14	14	143.2	1		0	0			
2014	7-Dec-14	15	148.2	0		0	0			
2014	7-Dec-14	16	140.7	0		0	117.3			
2014	7-Dec-14	17	134.6	0		0	297.4			
2014	7-Dec-14	18	136.5	0		0	429.8			
2014	7-Dec-14	19	191.4	0		0	501.7			
2014	7-Dec-14	20	219.8	0		0	482.7			
2014	7-Dec-14	21	249.4	0		0	372.8			
2014	7-Dec-14	22	198.7	0		0	330.2			
2014	7-Dec-14	23	174.6	0		0	302.7			
2014	8-Dec-14	0	130.4	0		0	365.7			
2014	8-Dec-14	1	130.9	0		0	589.2			
2014	8-Dec-14	2	131.3	10.9		0	948.5			
2014	8-Dec-14	3	146.7	6.5		0	1733.2			
2014	8-Dec-14	4	217.9	0		0	1879.6			
2014	8-Dec-14	5	458.1	7.3		0	2139.3			
2014	8-Dec-14	6	878.7	25.9		0	2571.3			
2014	8-Dec-14	7	1094	44.4		1.7	3019.2			
2014	8-Dec-14	8	507.3	75.4		0	2898.4			
2014	8-Dec-14	9	303.3	82		0	3019.3			
2014	8-Dec-14	10	313	70		0	3153.3			
2014	8-Dec-14	11	318.3	75.7		0	3355.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	8-Dec-14	12	266.8	6.4		0	3406.7			
2014	8-Dec-14	13	206.7	1.1		0	3379.3			
2014	8-Dec-14	14	166.6	0		0	3325.5			
2014	8-Dec-14	15	164	7.1		0	3418.3			
2014	8-Dec-14	16	269	20.1		0	3628.1			
2014	8-Dec-14	17	566.6	92		0	3847.4			
2014	8-Dec-14	18	672.3	157.2		0	3706.7			
2014	8-Dec-14	19	612.7	246.1		0	3636.2			
2014	8-Dec-14	20	548.4	354		0	3582.9			
2014	8-Dec-14	21	351.7	480.3		0	3417.1			
2014	8-Dec-14	22	212.1	511		0	3196.7			
2014	8-Dec-14	23	164.6	443.7		0	2686.8			
2014	9-Dec-14	0	136.1	267.6		0	2381			
2014	9-Dec-14	1	122	161.5		0	2322			
2014	9-Dec-14	2	105	68.3		0	2308.2			
2014	9-Dec-14	3	77.5	81.4		0	2304			
2014	9-Dec-14	4	80.6	47.6		0	2312.4			
2014	9-Dec-14	5	228.5	0.9		0	2364			
2014	9-Dec-14	6	533.3	0		0	2624.4			
2014	9-Dec-14	7	449.2	7.3		1.2	3108.6			
2014	9-Dec-14	8	407.9	12.1		0	3516.9			
2014	9-Dec-14	9	265.8	5		0	3414.1			
2014	9-Dec-14	10	256.2	2.3		0	3562.6			
2014	9-Dec-14	11	196.6	2.2		0	3531.7			
2014	9-Dec-14	12	189	1.2		0	3535.3			
2014	9-Dec-14	13	201.3	1.2		0	3608.9			
2014	9-Dec-14	14	161.4	3.7		0	3392.9			
2014	9-Dec-14	15	141.7	6.9		0	3206.8			
2014	9-Dec-14	16	98.1	24		0	2918.4			
2014	9-Dec-14	17	150.5	68.8		0	3369.9			
2014	9-Dec-14	18	156.2	91.6		0	3505.5			
2014	9-Dec-14	19	132.3	97.7		0	3236			
2014	9-Dec-14	20	123.3	124.3		0	3383.9			
2014	9-Dec-14	21	116.4	129.8		0	3157.8			
2014	9-Dec-14	22	104.1	98.4		0	2798.5			
2014	9-Dec-14	23	111	109		0	2496			
2014	10-Dec-14	0	85.5	102		0	2377.3			
2014	10-Dec-14	1	88.6	99.8		0	2382.6			
2014	10-Dec-14	2	96.9	99.7		0	2381.1			
2014	10-Dec-14	3	99	104.3		0	2376.8			
2014	10-Dec-14	4	87.3	107.5		0	2379.4			
2014	10-Dec-14	5	85.8	186.4		0	2309.5			
2014	10-Dec-14	6	90.1	229.5		0	2469			
2014	10-Dec-14	7	112.8	160.9		3.1	2563.7			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	10-Dec-14	8	276.9	230.3		0	2527			
2014	10-Dec-14	9	191.9	173.6		0	2468.4			
2014	10-Dec-14	10	227.6	981.2		0	2517.7			
2014	10-Dec-14	11	129.4	187.6		0	2439.9			
2014	10-Dec-14	12	101.3	111.1		0	2401.7			
2014	10-Dec-14	13	81.8			0	2422.2			
2014	10-Dec-14	14	96.4			0	2459.6			
2014	10-Dec-14	15	79.3			0	2533.3			
2014	10-Dec-14	16	75.6			0	2669.1			
2014	10-Dec-14	17	86.3			0	3048.3			
2014	10-Dec-14	18	129.2			0	3478.2			
2014	10-Dec-14	19	136.5			0	3570.2			
2014	10-Dec-14	20	117.3			0	3431			
2014	10-Dec-14	21	100.2			0	3162.6			
2014	10-Dec-14	22	92			0	2754.4			
2014	10-Dec-14	23	78			0	2508			
2014	11-Dec-14	0	68.1			0	2393.8			
2014	11-Dec-14	1	69.5			0	2329.5			
2014	11-Dec-14	2	79.3			0	2306.7			
2014	11-Dec-14	3	72			0	2323.6			
2014	11-Dec-14	4	67.5			0	2317.4			
2014	11-Dec-14	5	72.1			0	2306.2			
2014	11-Dec-14	6	204.6			0	2747			
2014	11-Dec-14	7	234.4			3.3	3178.6			
2014	11-Dec-14	8	187.1			0	3262.9			
2014	11-Dec-14	9	102.3			0	3033.8			
2014	11-Dec-14	10	65.7			0	2750.4			
2014	11-Dec-14	11	64.1			0	2782.1			
2014	11-Dec-14	12	70.5			0	2708.1			
2014	11-Dec-14	13	80.7			0	2858.5			
2014	11-Dec-14	14	84.9			0	2704			
2014	11-Dec-14	15	81.6			0	2679.7			
2014	11-Dec-14	16	94.8			0	2634.9			
2014	11-Dec-14	17	229.2			0	3088.1			
2014	11-Dec-14	18	257.4			0	3387.2			
2014	11-Dec-14	19	268.1			0	3608.7			
2014	11-Dec-14	20	257.6			0	3547.3			
2014	11-Dec-14	21	214.6			0	3391.8			
2014	11-Dec-14	22	169			0	3015.5			
2014	11-Dec-14	23	120.2			0	2599.1			
2014	12-Dec-14	0	95.4			0	2416.4			
2014	12-Dec-14	1	78.6			0	2355.2			
2014	12-Dec-14	2	82.7			0	2287.4			
2014	12-Dec-14	3	82.3			0	2262.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	12-Dec-14	4	87.3			0	2262.3			
2014	12-Dec-14	5	174.7			0	2301.3			
2014	12-Dec-14	6	262.2			0	2600.3			
2014	12-Dec-14	7	359.3			2.2	3161.7			
2014	12-Dec-14	8	417.4			0	3359.3			
2014	12-Dec-14	9	414.3			0	3422.1			
2014	12-Dec-14	10	353.3			0	3336.1			
2014	12-Dec-14	11	295.7			0	3291.8			
2014	12-Dec-14	12	209.4			0	3133.9			
2014	12-Dec-14	13	164.1			0	2840.8			
2014	12-Dec-14	14	134.4			0	2636.5			
2014	12-Dec-14	15	98.9			0	2370.8			
2014	12-Dec-14	16	92.8			0	2498.9			
2014	12-Dec-14	17	116.3			0	2950.5			
2014	12-Dec-14	18	132.7			0	3306.7			
2014	12-Dec-14	19	135.7			0	3378.7			
2014	12-Dec-14	20	137.4			0	3398.2			
2014	12-Dec-14	21	112.2			0	3080.7			
2014	12-Dec-14	22	107.3			0	3059.7			
2014	12-Dec-14	23	78.5	0		0	2941.6			
2014	13-Dec-14	0	71.2	0		0	2567.5			
2014	13-Dec-14	1	69.1	0		0	2542.1			
2014	13-Dec-14	2	78.9	0		0	2462.2			
2014	13-Dec-14	3	71.6	2.7		0	2380.2			
2014	13-Dec-14	4	69.9	3.6		0	2412			
2014	13-Dec-14	5	69.9	1.8		0	2356.6			
2014	13-Dec-14	6	76.4	0.9		0	2367.2			
2014	13-Dec-14	7	137.1	3.6		1.1	2510.5			
2014	13-Dec-14	8	130.3	1.4		0	2965.5			
2014	13-Dec-14	9	69.4	4.8		0	3000			
2014	13-Dec-14	10	70.5	48.4		0	2906.2			
2014	13-Dec-14	11	67.9	39.9		0	2538.3			
2014	13-Dec-14	12	60.9	17.3		0	2348.4			
2014	13-Dec-14	13	61.4	18		0	2332.9			
2014	13-Dec-14	14	72.3	37.9		0	2303.5			
2014	13-Dec-14	15	67.3	21.1		0	2316.4			
2014	13-Dec-14	16	64.1	6.4		0	2435.2			
2014	13-Dec-14	17	82.6	5.1		0	2916			
2014	13-Dec-14	18	93.1	8.2		0	3107.7			
2014	13-Dec-14	19	102.8	6.2		0	3382.2			
2014	13-Dec-14	20	102.6	10.5		0	3334.5			
2014	13-Dec-14	21	86.7	17.7		0	3007.9			
2014	13-Dec-14	22	83.1	24.2		0	2621.5			
2014	13-Dec-14	23	73.5	26.4		0	2355			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	14-Dec-14	0	68.1	25.2		0	2419			
2014	14-Dec-14	1	65.2	19.4		0	2302			
2014	14-Dec-14	2	76	30.7		0	2300			
2014	14-Dec-14	3	68.8	34		0	2276.9			
2014	14-Dec-14	4	67.6	30.5		0	2251.4			
2014	14-Dec-14	5	104.5	28.5		0	2248.9			
2014	14-Dec-14	6	102.8	24.3		0	2269.8			
2014	14-Dec-14	7	117.5	27.4		2.4	2275.4			
2014	14-Dec-14	8	89	23		0	2273			
2014	14-Dec-14	9	77.4	15.6		0	2278.1			
2014	14-Dec-14	10	78.7	20.8		0	2236.8			
2014	14-Dec-14	11	74.6	17.4		0	2245.1			
2014	14-Dec-14	12	68.7	16.2		0	2257.6			
2014	14-Dec-14	13	68	16.2		0	2248			
2014	14-Dec-14	14	73.5	20.9		0	2284.2			
2014	14-Dec-14	15	70.3	16.3		0	2297.6			
2014	14-Dec-14	16	64	23.3		0	2340.3			
2014	14-Dec-14	17	73.7	31.3		0	2505.6			
2014	14-Dec-14	18	108.9	37.4		0	2876.9			
2014	14-Dec-14	19	107.8	35		0	2952.7			
2014	14-Dec-14	20	133.3	36.2		0	3286.7			
2014	14-Dec-14	21	96.5	36		0	2981.1			
2014	14-Dec-14	22	92.4	38.3		0	2549.6			
2014	14-Dec-14	23	83.9	33.6		0	2316.1			
2014	15-Dec-14	0	78.7	41.3		0	2283.5			
2014	15-Dec-14	1	84.2	33.9		0	2284.2			
2014	15-Dec-14	2	90.1	33.5		0	2299.9			
2014	15-Dec-14	3	85.9	37.7		0	2294.8			
2014	15-Dec-14	4	88.4	29.3		0	2296.4			
2014	15-Dec-14	5	86.9	42.4		0	2251.7			
2014	15-Dec-14	6	89.5	34.968		0	2584.9			
2014	15-Dec-14	7	164.5			1.3	3105.7			
2014	15-Dec-14	8	136.2			0	3116			
2014	15-Dec-14	9	71.8			0	2850.4			
2014	15-Dec-14	10	77.3			0	2514.4			
2014	15-Dec-14	11	75.9			0	2343.3			
2014	15-Dec-14	12	70.5			0	2325.8			
2014	15-Dec-14	13	73.4			0	2260.2			
2014	15-Dec-14	14	78.8			0	2240.9			
2014	15-Dec-14	15	72.2			0	2224.2			
2014	15-Dec-14	16	67.8			0	2271.2			
2014	15-Dec-14	17	84.6			0	2691.3			
2014	15-Dec-14	18	98.3			0	3125.4			
2014	15-Dec-14	19	100.5			0	3383			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	15-Dec-14	20	126.8			0	3512.7			
2014	15-Dec-14	21	108.3			0	3350.4			
2014	15-Dec-14	22	92.2			0	2955.4			
2014	15-Dec-14	23	71.3			0	2561.8			
2014	16-Dec-14	0	70.2			0	2296.1			
2014	16-Dec-14	1	68.2			0	2253.3			
2014	16-Dec-14	2	76.9			0	2253.1			
2014	16-Dec-14	3	74.5			0	2265.9			
2014	16-Dec-14	4	69.6			0	2251.2			
2014	16-Dec-14	5	65.2			0	2333.8			
2014	16-Dec-14	6	80			0	2540			
2014	16-Dec-14	7	119.7			1.6	3049.5			
2014	16-Dec-14	8	82.3			0	3017.9			
2014	16-Dec-14	9	72.9			0	2911.6			
2014	16-Dec-14	10	79.2			0	2745.5			
2014	16-Dec-14	11	79.2			0	2605.8			
2014	16-Dec-14	12	76.6			0	2694.1			
2014	16-Dec-14	13	82.5			0	2784			
2014	16-Dec-14	14	88.4			0	2542.6			
2014	16-Dec-14	15	82			0	2556.3			
2014	16-Dec-14	16	80.3			0	2659.9			
2014	16-Dec-14	17	85			0	2951.5			
2014	16-Dec-14	18	94.3			0	2960.8			
2014	16-Dec-14	19	78.4			0	2825.9			
2014	16-Dec-14	20	78.3			0	2680			
2014	16-Dec-14	21	73.4			0	2480.8			
2014	16-Dec-14	22	86.1			0	2370.4			
2014	16-Dec-14	23	81.7			0	2369.2			
2014	17-Dec-14	0	75.9			0	2366.4			
2014	17-Dec-14	1	74.2			0	2376.7			
2014	17-Dec-14	2	81.8			0	2365.6			
2014	17-Dec-14	3	70.5			0	2390.5			
2014	17-Dec-14	4	72.1			0	2430.7			
2014	17-Dec-14	5	71.4			0	2435			
2014	17-Dec-14	6	100.7			0	2629.4			
2014	17-Dec-14	7	93.4			1.1	3101.5			
2014	17-Dec-14	8	106.7			0	3424.3			
2014	17-Dec-14	9	66.7			0	3363.1			
2014	17-Dec-14	10	72			0	2957.9			
2014	17-Dec-14	11	41			0	2863.2			
2014	17-Dec-14	12	43.9			0	2816			
2014	17-Dec-14	13	61.3			0	2760.1			
2014	17-Dec-14	14	67.8			0	2632.3			
2014	17-Dec-14	15	66.3			0	2610.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	17-Dec-14	16	66.7			0	2726.4			
2014	17-Dec-14	17	72.2			0	3252.9			
2014	17-Dec-14	18	99.2			0	3698.9			
2014	17-Dec-14	19	110.9			0	3791			
2014	17-Dec-14	20	111.4			0	3949.4			
2014	17-Dec-14	21	118.1			0	4057.9			
2014	17-Dec-14	22	122.6			0	3949.1			
2014	17-Dec-14	23	97.2			0	3605.7			
2014	18-Dec-14	0	72.9			0	3155.6			
2014	18-Dec-14	1	59.6			0	2754.3			
2014	18-Dec-14	2	66.2			0	2552.6			
2014	18-Dec-14	3	64.4	3.68		0	2557.3			
2014	18-Dec-14	4	58.6	1.6		0	2600			0
2014	18-Dec-14	5	58.5	1.6		0	2672.7			0
2014	18-Dec-14	6	66.2	0.9		0	2882.4			0
2014	18-Dec-14	7	108.4	4.3		2.2	3429.9			4.5
2014	18-Dec-14	8	100.7	5.2		0	3961.2			0
2014	18-Dec-14	9	128.2	3.6		0	4176.5			0
2014	18-Dec-14	10	235.4	5.7		0	4166.1			0
2014	18-Dec-14	11	169.9	4.7		0	4004			0
2014	18-Dec-14	12	150.8	14.3		0	3895.9			0.3
2014	18-Dec-14	13	115.2	26.6		0	3678.8			0
2014	18-Dec-14	14	156.4	71.3		0	3818.3			0
2014	18-Dec-14	15	138.2	76.9		0	3835.8			9.5
2014	18-Dec-14	16	104.2	186.6		0	3522.2			8.9
2014	18-Dec-14	17	96.3	379.5		0	3622.8			2.9
2014	18-Dec-14	18	141.5	71.4		0	4034.6			5.8
2014	18-Dec-14	19	137	74.5		0	4156.5			57.7
2014	18-Dec-14	20	161.7	59.9	0.044	0	4042			84.3
2014	18-Dec-14	21	218	65.1	0.067	0	4092.8			87.4
2014	18-Dec-14	22	224.6	147.5	0.067	0	3910.4			38.5
2014	18-Dec-14	23	138.6	164	0.067	0	3583.5			46.3
2014	19-Dec-14	0	92.8	194.1	14.467	0	3127.3			47.3
2014	19-Dec-14	1	71.6	271.3	231.566	0	2740.8			63.4
2014	19-Dec-14	2	67.3	487.7	232.867	0	2535			169.4
2014	19-Dec-14	3	58.3	346.7	231.568	0	2487.3			326.7
2014	19-Dec-14	4	54.5	124.2	233.38	0	2470.2			621.7
2014	19-Dec-14	5	51.7	344.9	258.087	0	2453			662.5
2014	19-Dec-14	6	59.5	184.3	285.835	0	2736.3			554.2
2014	19-Dec-14	7	102.1	249.4	552.521	2.1	3309.4			505.8
2014	19-Dec-14	8	131.5	299.2	624.8	0	3783.5			486.4
2014	19-Dec-14	9	131.8	402.5	620.2	0	3935.2			468.2
2014	19-Dec-14	10	201.2	557.9	449.3	0	4008.7			451.3
2014	19-Dec-14	11	191	241.1	293.7	0	3855.3			447.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	19-Dec-14	12	199.1	87	95.76	0	3540.5			458.9
2014	19-Dec-14	13	284.1	57.4		0	3161.7			457.9
2014	19-Dec-14	14	383.2	214.3		0	2939.9			454.8
2014	19-Dec-14	15	393.5	84.1		0	2602			457.5
2014	19-Dec-14	16	303.5	36.2		0	2816.6			459.5
2014	19-Dec-14	17	308.9	41.7		0	3151.4			371.2
2014	19-Dec-14	18	283.8	245.1		0	3493.4			391.3
2014	19-Dec-14	19	224.5	88.8		0	3488.3			225.8
2014	19-Dec-14	20	181.7	48.2		0	3458.5			140.7
2014	19-Dec-14	21	183.1	77.9		0	3520.7			2.406
2014	19-Dec-14	22	195	353.6		0	3619.7			
2014	19-Dec-14	23	152.6	87.3		0	3426.9			
2014	20-Dec-14	0	70.135	44.2		0	3311.1			
2014	20-Dec-14	1		89.6		0	3567			
2014	20-Dec-14	2		136.9		0	3860			
2014	20-Dec-14	3		179.2		0	3952.6			
2014	20-Dec-14	4		93.7		0	3901			
2014	20-Dec-14	5		117.7		0	3929.6			
2014	20-Dec-14	6		32.3		0	3929			
2014	20-Dec-14	7		117.4		1.5	3995.4			
2014	20-Dec-14	8		172.7		0	3989.4			
2014	20-Dec-14	9		86.7		0	3925.1			
2014	20-Dec-14	10		176		0	3946.6			
2014	20-Dec-14	11		134.6		0	3845.5			
2014	20-Dec-14	12		62.6		0	3572			
2014	20-Dec-14	13		51.6		0	3236.4			
2014	20-Dec-14	14		143.3		0	3123.6			
2014	20-Dec-14	15		71.8		0	3014.4			
2014	20-Dec-14	16		115.7		0	2844.7			
2014	20-Dec-14	17		169.1		0	3276.9			
2014	20-Dec-14	18		136.6		0	3546.1			
2014	20-Dec-14	19		386.6		0	3766.9			
2014	20-Dec-14	20		120.8		0	3737.9			
2014	20-Dec-14	21		42.7		0	3700.5			
2014	20-Dec-14	22		254.4		0	3428.1			
2014	20-Dec-14	23		128.8		0	3221.2			
2014	21-Dec-14	0		81.7		0	2965			
2014	21-Dec-14	1		114.7		0	2943.6			
2014	21-Dec-14	2		125.6		0	2792.1			
2014	21-Dec-14	3		140		0	2425.4			
2014	21-Dec-14	4		135.8		0	2400.3			
2014	21-Dec-14	5		139.4		0	2349.7			
2014	21-Dec-14	6		153.1		0	2490.1			
2014	21-Dec-14	7		164.1		1.6	2500.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	21-Dec-14	8		185.2		0	3014.1			
2014	21-Dec-14	9		182.8		0	3402			
2014	21-Dec-14	10		174.7		0	3100.5			
2014	21-Dec-14	11		166.3		0	2734.4			
2014	21-Dec-14	12		143.2		0	2531.4			
2014	21-Dec-14	13		82		0	2409.2			
2014	21-Dec-14	14		55.8		0	2396.2			
2014	21-Dec-14	15		39.9		0	2397.1			
2014	21-Dec-14	16		45.2		0	2399.4			
2014	21-Dec-14	17		38.4		0	2550.2			
2014	21-Dec-14	18		45.3		0	2897			
2014	21-Dec-14	19		39.2		0	2968.2			
2014	21-Dec-14	20		33.9		0	3085.2			
2014	21-Dec-14	21		65.6		0	3312.5			
2014	21-Dec-14	22		34.6		0	3014.9			
2014	21-Dec-14	23		40.2		0	2754.9			
2014	22-Dec-14	0		42.2		0	2424.3			
2014	22-Dec-14	1		0		0	2395.1			
2014	22-Dec-14	2		0		0	2362.3			
2014	22-Dec-14	3		14.4		0	2343.8			
2014	22-Dec-14	4		81.7		0	2347.7			
2014	22-Dec-14	5		219.2		0	2449.8			
2014	22-Dec-14	6		291.2		0	2983.4			
2014	22-Dec-14	7		610.4		1.2	3467.1			
2014	22-Dec-14	8		809.2		0	3613.4			
2014	22-Dec-14	9		794.3		0	3789.5			
2014	22-Dec-14	10		795.6		0	3815			
2014	22-Dec-14	11		945.3		0	3865.4			
2014	22-Dec-14	12		1253		0	3904.2			
2014	22-Dec-14	13		213.5		0	3838.4			
2014	22-Dec-14	14		106.4		0	3659.7			
2014	22-Dec-14	15		111.2		0	3368.7			
2014	22-Dec-14	16		166.2		0	3310.5			
2014	22-Dec-14	17		340.5		0	3329.1			
2014	22-Dec-14	18		565.3		0	3545.5			
2014	22-Dec-14	19		341.6		0	3479.6			
2014	22-Dec-14	20		175.7		0	3479.9			
2014	22-Dec-14	21		322.1		0	3470.7			
2014	22-Dec-14	22		170.9		0	3187.3			
2014	22-Dec-14	23		172.4		0	2867.6			
2014	23-Dec-14	0		141.8			3080			
2014	23-Dec-14	1		261.8			3386.3			
2014	23-Dec-14	2		338.9			3474.6			
2014	23-Dec-14	3		222			3371.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	23-Dec-14	4		165.4			3473.7			
2014	23-Dec-14	5		427.4			3628.9			
2014	23-Dec-14	6		578.9			3848.5			
2014	23-Dec-14	7		806.5			3873.3			
2014	23-Dec-14	8		931.7			3867.7			
2014	23-Dec-14	9		868.3			3862.6			
2014	23-Dec-14	10		940.9			3879.2			
2014	23-Dec-14	11		965			3889			
2014	23-Dec-14	12		947.4			3891.2			
2014	23-Dec-14	13		979			3852.1			
2014	23-Dec-14	14		899.3			3709.8			
2014	23-Dec-14	15		837.4			3716.8			
2014	23-Dec-14	16		442.4			3629.6			
2014	23-Dec-14	17		615.5			3643			
2014	23-Dec-14	18		533.8			3861.6			
2014	23-Dec-14	19		993.4			3872.6			
2014	23-Dec-14	20		963.3			3815.5			
2014	23-Dec-14	21		915.2			3848.5			
2014	23-Dec-14	22		299.8			3644.6			
2014	23-Dec-14	23		182.1			3323.7			
2014	24-Dec-14	0		166.3			3366.5			
2014	24-Dec-14	1		55			3045.6			
2014	24-Dec-14	2		71.6			2574			
2014	24-Dec-14	3		25.6			2738.7			
2014	24-Dec-14	4		55			2951.2			
2014	24-Dec-14	5		18			3064.5			
2014	24-Dec-14	6		167.9			3570.9			
2014	24-Dec-14	7		535.7			3844.9			
2014	24-Dec-14	8		836.2			3903.4			
2014	24-Dec-14	9		930.9			3906.6			
2014	24-Dec-14	10		663.3			3888.9			
2014	24-Dec-14	11		765.4			3779.6			
2014	24-Dec-14	12		474.2			3644.4			
2014	24-Dec-14	13		659.8			3658.6			
2014	24-Dec-14	14		474.1			3624.6			
2014	24-Dec-14	15		967.2			3766.6			
2014	24-Dec-14	16		931.5			3651.7			
2014	24-Dec-14	17		984.3			3781			
2014	24-Dec-14	18		683.5			3818.1			
2014	24-Dec-14	19		698.3			3839.4			
2014	24-Dec-14	20		429.1			3743.7			
2014	24-Dec-14	21		229.2			3495.9			
2014	24-Dec-14	22		119			3031.1			
2014	24-Dec-14	23		32.4			2693.2			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	25-Dec-14	0		38.5			2403.8			
2014	25-Dec-14	1		13.1			2328.6			
2014	25-Dec-14	2		28.3			2313			
2014	25-Dec-14	3		65.7			2311.4			
2014	25-Dec-14	4		67.6			2339.6			
2014	25-Dec-14	5		94.7			2350.4			
2014	25-Dec-14	6		76			2488.7			
2014	25-Dec-14	7		154.2			3098.8			
2014	25-Dec-14	8		203.1			3530.3			
2014	25-Dec-14	9		105.9			3523.9			
2014	25-Dec-14	10		117.8			3602.6			
2014	25-Dec-14	11		378			3840.3			
2014	25-Dec-14	12		370.3			3688			
2014	25-Dec-14	13		233.3			3463.9			
2014	25-Dec-14	14		89			3268.8			
2014	25-Dec-14	15		85.1			2978.4			
2014	25-Dec-14	16		54.7			2554.9			
2014	25-Dec-14	17		63.3			2682.7			
2014	25-Dec-14	18		100.1			3268.2			
2014	25-Dec-14	19		57.7			3586.9			
2014	25-Dec-14	20		324.5			3690.3			
2014	25-Dec-14	21		602.3			3571.1			
2014	25-Dec-14	22		281.4			3408.1			
2014	25-Dec-14	23		107.5			2863.3			
2014	26-Dec-14	0		108.6			2773.8			
2014	26-Dec-14	1		154			3106.2			
2014	26-Dec-14	2		125.1			3234.9			
2014	26-Dec-14	3		113.3			3048.2			
2014	26-Dec-14	4		195.3			3334			
2014	26-Dec-14	5		477.2			3578.1			
2014	26-Dec-14	6		830.1			3709.5			
2014	26-Dec-14	7		1062.6			3838			
2014	26-Dec-14	8		895.8			3845.4			
2014	26-Dec-14	9		720.7			3845.3			
2014	26-Dec-14	10		553.4			3698.7			
2014	26-Dec-14	11		333.1			3424.5			
2014	26-Dec-14	12		140.9			3364.8			
2014	26-Dec-14	13		92.4			3200.3			
2014	26-Dec-14	14		75.3			3037.8			
2014	26-Dec-14	15		76			3053			
2014	26-Dec-14	16		61			2874.4			
2014	26-Dec-14	17		79.1			3085.9			
2014	26-Dec-14	18		55.2			3356.9			
2014	26-Dec-14	19		83			3585.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	26-Dec-14	20		70.8			3669.8			
2014	26-Dec-14	21		131.1			3635.8			
2014	26-Dec-14	22		63.7			3534			
2014	26-Dec-14	23		82.8			3253.8			
2014	27-Dec-14	0		40.7			3067			
2014	27-Dec-14	1		47.1			2899.2			
2014	27-Dec-14	2		44			2678.3			
2014	27-Dec-14	3		58.4			2833.5			
2014	27-Dec-14	4		33.8			2704			
2014	27-Dec-14	5		80			2298.3			
2014	27-Dec-14	6		57.5			2402			
2014	27-Dec-14	7		104.4			2833.9			
2014	27-Dec-14	8		178.8			2892			
2014	27-Dec-14	9		267			2867			
2014	27-Dec-14	10		299.8		0	3109.7			
2014	27-Dec-14	11		189.6		0	2845.1			
2014	27-Dec-14	12		89.5		0.1	3087.9			
2014	27-Dec-14	13		138.8		0	3153.8			
2014	27-Dec-14	14		76.6		0	3110			
2014	27-Dec-14	15		97.7		0	3075			
2014	27-Dec-14	16		65.5		0	2725.9			
2014	27-Dec-14	17		72.1		0	2874.7			
2014	27-Dec-14	18		29.2		0	2657.7			
2014	27-Dec-14	19		66.3		0	2545.8			
2014	27-Dec-14	20		35.1		0	2541.3			
2014	27-Dec-14	21		66.7		0	2623.4			
2014	27-Dec-14	22		55.2		0	2521.2			
2014	27-Dec-14	23		58.9		0	2293			
2014	28-Dec-14	0		48.8		0	2276.3			
2014	28-Dec-14	1		51.5		0	2273.6			
2014	28-Dec-14	2		45.2		0	2266.3			
2014	28-Dec-14	3		46.3		0	2268.4			
2014	28-Dec-14	4		41.2		0	2272.6			
2014	28-Dec-14	5		51.3		0	2215.1			
2014	28-Dec-14	6		45.1		0	2356.5			
2014	28-Dec-14	7		73.1		1.3	2529			
2014	28-Dec-14	8		113.1		0	2914.3			
2014	28-Dec-14	9		232		0	3294.2			
2014	28-Dec-14	10		593.5		0	3600.6			
2014	28-Dec-14	11		760.8		0	3662.3			
2014	28-Dec-14	12		760.7		0	3591.8			
2014	28-Dec-14	13		321.5		0	3430.5			
2014	28-Dec-14	14		376.8		0	3601.5			
2014	28-Dec-14	15		370.1		0	3403.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	28-Dec-14	16		292.5		0	3130.7			
2014	28-Dec-14	17		90.5		0	2951.8			
2014	28-Dec-14	18		44.7		0	2912.3			
2014	28-Dec-14	19		20.4		0	2898.7			
2014	28-Dec-14	20		31.7		0	3077.9			
2014	28-Dec-14	21		74		0	3066			
2014	28-Dec-14	22		76.9		0	3041.9			
2014	28-Dec-14	23		82.6		0	3209.2			
2014	29-Dec-14	0		81.7		0	3194.7			
2014	29-Dec-14	1		64.1		0	2952.4			
2014	29-Dec-14	2		34.6		0	2989.6			
2014	29-Dec-14	3		57.1			2824.3			
2014	29-Dec-14	4		29.9			2645.4			
2014	29-Dec-14	5		82.7		0	2555.3			
2014	29-Dec-14	6		62.8		0.1	2735.1			
2014	29-Dec-14	7		131.7		2.4	3239.7			
2014	29-Dec-14	8		153.6		0	3634.9			
2014	29-Dec-14	9		133.6		0	3708.7			
2014	29-Dec-14	10		203.8		0	3768.8			
2014	29-Dec-14	11		196.7		0	3739.3			
2014	29-Dec-14	12		296.3		0	3616			
2014	29-Dec-14	13		385.5		0	3635.7			
2014	29-Dec-14	14		411.8		0	3533.5			
2014	29-Dec-14	15		440.2		0	3519.3			
2014	29-Dec-14	16		627		0	3617.8			
2014	29-Dec-14	17		530.8		0	3696.2			
2014	29-Dec-14	18		790.8		0	3664.8			
2014	29-Dec-14	19		86.7		0	3326.6			
2014	29-Dec-14	20		86.9		0	3375.8			
2014	29-Dec-14	21		50.6		0	3072.8			
2014	29-Dec-14	22		36.1		0	2901.7			
2014	29-Dec-14	23		73.6		0	2520.9			
2014	30-Dec-14	0		54.3		0	2309.4			
2014	30-Dec-14	1		68.7		0	2266.8			
2014	30-Dec-14	2		49		0	2260.5			
2014	30-Dec-14	3		64.7		0	2253.2			
2014	30-Dec-14	4		47.1		0	2244.9			
2014	30-Dec-14	5		65.2		0	2290.6			
2014	30-Dec-14	6		52.7		0	2697.3			
2014	30-Dec-14	7		127.1		3	3197.5			
2014	30-Dec-14	8		179.8		0	3626.3			
2014	30-Dec-14	9		254.9		0	3824.3			
2014	30-Dec-14	10		382		0	3735.3			
2014	30-Dec-14	11		343.1		0	3578.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2014	30-Dec-14	12		155.6		0	3227.8			
2014	30-Dec-14	13		171		0	3208.9			
2014	30-Dec-14	14		135.8		0	3201.5			
2014	30-Dec-14	15		131.5		0	3029.1			
2014	30-Dec-14	16		127.6		0	3152.2			
2014	30-Dec-14	17		165.3		0	3171.8			
2014	30-Dec-14	18		171.6		0	3341.4			
2014	30-Dec-14	19		273.7		0	3549.6			
2014	30-Dec-14	20		280.2		0	3636.8			
2014	30-Dec-14	21		358.9		0	3729.5			
2014	30-Dec-14	22		255.8		0	3482.4			
2014	30-Dec-14	23		289.9		0	3371.2			
2014	31-Dec-14	0		245.2		0	3298.8			
2014	31-Dec-14	1		135.4		0	3205			
2014	31-Dec-14	2		109.7		0	3019.2			
2014	31-Dec-14	3		78.1		0	2992			
2014	31-Dec-14	4		112.9		0	3304.7			
2014	31-Dec-14	5		194.9		0	3491.4			
2014	31-Dec-14	6		164.3		0	3556.9			
2014	31-Dec-14	7		309.9		2	3609.1			
2014	31-Dec-14	8		434.7		0	3766.1			
2014	31-Dec-14	9		305.3		0	3555.4			
2014	31-Dec-14	10		277.2		0	3321.6			
2014	31-Dec-14	11		209.9		0	2859.8			
2014	31-Dec-14	12		149.7		0	2581			
2014	31-Dec-14	13		122.1		0	2356.7			
2014	31-Dec-14	14		94.5		0	2316.8			
2014	31-Dec-14	15		67.5		0	2323.7			
2014	31-Dec-14	16		83.2		0	2475.7			
2014	31-Dec-14	17		94.6		0	2781.9			
2014	31-Dec-14	18		93.6		0	2942.3			
2014	31-Dec-14	19		61.4		0	2754.9			
2014	31-Dec-14	20		72.2		0	2731.7			
2014	31-Dec-14	21		79.7		0	2701.3			
2014	31-Dec-14	22		77		0	2860.4			
2014	31-Dec-14	23		82.3		0	2834.8			
2015	1-Jan-15	0		68.8		0	2730.1			
2015	1-Jan-15	1		63.3		0	2364.4			
2015	1-Jan-15	2		64.4		0	2304.1			
2015	1-Jan-15	3		62.5		0	2298.7			
2015	1-Jan-15	4		66.7		0	2303.9			
2015	1-Jan-15	5		64.6		0	2263.2			
2015	1-Jan-15	6		62		0	2342.1			
2015	1-Jan-15	7		89.6		2.1	2442.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Jan-15	8		115.6		0	2853.4			
2015	1-Jan-15	9		130.6		0	3242.4			
2015	1-Jan-15	10		146.2		0	3150.8			
2015	1-Jan-15	11		119.8		0	2906.2			
2015	1-Jan-15	12		96.4		0	2556.6			
2015	1-Jan-15	13		72.8		0	2351.7			
2015	1-Jan-15	14		62.2		0	2303			
2015	1-Jan-15	15		63.5		0	2272	0.043		
2015	1-Jan-15	16		67		0	2280.3	0.062		
2015	1-Jan-15	17		71.1		0	2408.8	0.063		
2015	1-Jan-15	18		58.7		0	2302.9	0.09		
2015	1-Jan-15	19		59.7		0	2257.8	0.094		
2015	1-Jan-15	20		57		0	2260.9	0.094		
2015	1-Jan-15	21		61.4		0	2316	0.085		
2015	1-Jan-15	22		72.5		0	2564.1	0.07		
2015	1-Jan-15	23		54		0	2326.6	0.062		
2015	2-Jan-15	0		61.2		0	2282.7	0.062		
2015	2-Jan-15	1		58.2			2273.7	0.059		
2015	2-Jan-15	2		71.4		0	2262.3	0.047		
2015	2-Jan-15	3		68.6		0	2271.5	119.416		
2015	2-Jan-15	4		64.2		0	2262.6	84.531		
2015	2-Jan-15	5		73.1		0.1	2237.1	168.131		
2015	2-Jan-15	6		66.9		0	2423.6	317.742		
2015	2-Jan-15	7		102.9			2760.2	475.428		
2015	2-Jan-15	8		89.9		0	2647.9	688.812		
2015	2-Jan-15	9		75.4		0	2389.3	1685.704		
2015	2-Jan-15	10		75.6		0.1	2293.7	1864		
2015	2-Jan-15	11		77.8		0	2260.5	1705.1		
2015	2-Jan-15	12		71.9		0	2267.6	959.5		
2015	2-Jan-15	13		70.5		0	2284.5	182.413		
2015	2-Jan-15	14		72		0	2277.4			
2015	2-Jan-15	15		70.7		0	2283.1			
2015	2-Jan-15	16		72.3		0	2311.4			
2015	2-Jan-15	17		77.7		0	2371			
2015	2-Jan-15	18		72.3		0	2381.4			
2015	2-Jan-15	19		76.8		0	2302			
2015	2-Jan-15	20		79.4		0	2294.7			
2015	2-Jan-15	21		76.4		0	2299.3			
2015	2-Jan-15	22		76.1		0	2300.6			
2015	2-Jan-15	23		73.7		0	2318.4			
2015	3-Jan-15	0		79.4		0	2301.1			
2015	3-Jan-15	1		75.4		0	2313.2			
2015	3-Jan-15	2		74.9		0	2290.5			
2015	3-Jan-15	3		76.2		0	2298.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	3-Jan-15	4		76.2		0	2289.7			
2015	3-Jan-15	5		83.3		0	2243.8			
2015	3-Jan-15	6	0	79.8		0	2290.9			
2015	3-Jan-15	7	0	93.5		1.5	2294.8			
2015	3-Jan-15	8	0	93.7		0	2293.3			
2015	3-Jan-15	9	0	62.2		0	2303.9			
2015	3-Jan-15	10	3.4	111.8		0	2471.2			
2015	3-Jan-15	11	0.8	86.2		0	2578.8			
2015	3-Jan-15	12	0	77.5		0	2567.5			
2015	3-Jan-15	13	0	92.3		0	2527.9			
2015	3-Jan-15	14	0	96.9		0	2328.6			
2015	3-Jan-15	15	0	79.9		0	2291.3			
2015	3-Jan-15	16	0	75.1		0	2352.3			
2015	3-Jan-15	17	0	87.4		0	2620.7			
2015	3-Jan-15	18	0	84.2		0	2441.5			
2015	3-Jan-15	19	0	81.1		0	2321.3			
2015	3-Jan-15	20	0	79.1		0	2278.6			
2015	3-Jan-15	21	0	83.3		0	2262.1			
2015	3-Jan-15	22	0	78.7		0	2261.3			
2015	3-Jan-15	23	0	74.3		0	2254.7			
2015	4-Jan-15	0	0	71.4		0	2261.2			
2015	4-Jan-15	1	0	72.7		0	2271			
2015	4-Jan-15	2	0	69.9		0	2262.1			
2015	4-Jan-15	3	0	73		0	2269.5			
2015	4-Jan-15	4	0.9	70.1		0	2268.7			
2015	4-Jan-15	5	15.3	81.5		0	2221.8			
2015	4-Jan-15	6	5	66.4		0	2265.1			
2015	4-Jan-15	7	43.5	94.6		2.2	2264.4			
2015	4-Jan-15	8	0	89.4		0	2258.3			
2015	4-Jan-15	9	0	74		0	2243.9			
2015	4-Jan-15	10	3.3	71.8		0	2240.1			
2015	4-Jan-15	11	3.7	74.9		0	2243.2			
2015	4-Jan-15	12	13.3	76.1		0	2235.4			
2015	4-Jan-15	13	40.8	77.1		0	2240			
2015	4-Jan-15	14	65.4	80.2		0	2251.2			
2015	4-Jan-15	15	164.1	78.7		0	2242.9			
2015	4-Jan-15	16	301.1	79.1		0	2238.1			
2015	4-Jan-15	17	183.7	76		0	2259.6			
2015	4-Jan-15	18	84.2	75.7		0	2260.2			
2015	4-Jan-15	19	96.3	72.4		0	2259.6			
2015	4-Jan-15	20	126.2	72.6		0	2270.7			
2015	4-Jan-15	21	227.2	71		0	2272.1			
2015	4-Jan-15	22	287.8	67.2		0	2269.6			
2015	4-Jan-15	23	297.7	71.4		0	2274.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	5-Jan-15	0	257.4	67.5		0	2276.7			
2015	5-Jan-15	1	168.7	68.4		0	2275			
2015	5-Jan-15	2	115.7	64.4		0	2277			
2015	5-Jan-15	3	84.7	58.9		0	2287.6			
2015	5-Jan-15	4	74.4	61.1		0	2287.3			
2015	5-Jan-15	5	73.9	62.3		0	2246.1			
2015	5-Jan-15	6	79.4	65.6		0	2525.8			
2015	5-Jan-15	7	90.3	82.4		2.7	2438.8			
2015	5-Jan-15	8	91.3	84.6		0	2317.8			
2015	5-Jan-15	9	83.4	78.7		0	2307.9			
2015	5-Jan-15	10	90.7	78.6		0	2290.9			
2015	5-Jan-15	11	98.2	82.3		0	2295.9			
2015	5-Jan-15	12	95	82.2		0	2295.3			
2015	5-Jan-15	13	94.7	83.7		0	2288.6			
2015	5-Jan-15	14	93.4	86.3		0	2288.1			
2015	5-Jan-15	15	94.9	85		0	2279.8			
2015	5-Jan-15	16	96.4	83.7		0	2278.9			
2015	5-Jan-15	17	110.6	95.6		0	2491.7			
2015	5-Jan-15	18	138.7	120.5		0	2801.8			
2015	5-Jan-15	19	117.3	141		0	2994.3			
2015	5-Jan-15	20	126.4	157.6		0	3089.5			
2015	5-Jan-15	21	105.6	121		0	2867.5			
2015	5-Jan-15	22	99.3	114.6		0	2539.1			
2015	5-Jan-15	23	96.5	94.9		0	2280.5			
2015	6-Jan-15	0	107.3	90.7		0	2317.9			
2015	6-Jan-15	1	98.7	93.2		0	2300			
2015	6-Jan-15	2	106.5	87.6		0	2293.3			
2015	6-Jan-15	3	100	84.3		3.9	2293.7			
2015	6-Jan-15	4	110.5	84.3		82.3	2299.7			
2015	6-Jan-15	5	113.7	96.4		234.7	2380			
2015	6-Jan-15	6	170.4	121.9		359.5	2870.1			
2015	6-Jan-15	7	346.5	226.2		357	3373.2			
2015	6-Jan-15	8	750.7	276.6		370	3636.2			
2015	6-Jan-15	9	788.4	356.1		363.3	3744.8			
2015	6-Jan-15	10	1035.4	516.2		371.2	3806.7			
2015	6-Jan-15	11	898	890.6		368	3804.3			0
2015	6-Jan-15	12	1018.9	817.5		458.2	3795.4			0
2015	6-Jan-15	13	914.5	735.4		497.1	3783.9			0
2015	6-Jan-15	14	645.6	489.4		419.1	3526.1			0
2015	6-Jan-15	15	398.9	310.3		379.5	3244.3			0
2015	6-Jan-15	16	358.3	255.9		379.8	3150.6			0.9
2015	6-Jan-15	17	708.8	566.8		416.1	3452.3			6.8
2015	6-Jan-15	18	795.9	753.2		550.9	3660.2			4.7
2015	6-Jan-15	19	488.1	593.5		422.2	3444.2			2.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	6-Jan-15	20	380.2	514.2		403.5	3308.1			6
2015	6-Jan-15	21	234.7	333.8		359.2	2960.6			5.3
2015	6-Jan-15	22	174.2	270		368.8	2626		0	6.3
2015	6-Jan-15	23	127.7	209.1		369.5	2312.8		0	13.9
2015	7-Jan-15	0	104.3	185.3		372.5	2334.6		0	8
2015	7-Jan-15	1	86.8	141.1		371.9	2464.4		10	0
2015	7-Jan-15	2	90.4	127.7		371	2536.6		27.2	29.6
2015	7-Jan-15	3	89.8	99.1	0.006	376.7	2734.7		39.4	97.4
2015	7-Jan-15	4	94.4	74.2	0.053	373.1	2619.2	0.079	46.9	190.3
2015	7-Jan-15	5	99.8	91.8	0.07	420.3	2770.7	0.109	53.7	285.6
2015	7-Jan-15	6	223.4	263.9	0.085	406.7	2955.7	0.109	78.3	337.2
2015	7-Jan-15	7	436.1	653.8	0.078	595.5	3419.3	0.104	80.6	374.6
2015	7-Jan-15	8	683.9	761.7	0.069	904.7	3671.8	0.078	61.8	564.3
2015	7-Jan-15	9	820.9	731.5	0.067	1257.9	3814.6	150.6	55.3	655.7
2015	7-Jan-15	10	776.4	749.9	0.053	1303.2	3819.2	186.6	58.4	637.2
2015	7-Jan-15	11	851.5	789.4	0.059	1370.4	3832.5	418.3	58.1	665.5
2015	7-Jan-15	12	838.5	825.5	0.081	1407.2	3830.6	535	60.5	668
2015	7-Jan-15	13	807.8	857.1	101.932	1505.8	3831.2	681.2	62.2	776.3
2015	7-Jan-15	14	872.8	854.8	0.081	1526.8	3806.6	730.8	5.2	708.7
2015	7-Jan-15	15	792.2	838.8	178.709	1527.1	3812.7	864.7	53.7	747.6
2015	7-Jan-15	16	858.5	814.6	242.9	1526.4	3811.2	1359.9	63.3	908.6
2015	7-Jan-15	17	802.3	786	396.1	1530.9	3789	2225	62.4	892
2015	7-Jan-15	18	875.1	818.5	803.9	1567.7	3793.9	2120.4	77.3	857.3
2015	7-Jan-15	19	815.2	812	606.2	1564.1	3799.6	2041.2	86	854.3
2015	7-Jan-15	20	882.5	825.9	812.4	1554.4	3775.4	2416.4	101.3	834.4
2015	7-Jan-15	21	823.6	834.6	820.3	1550.9	3789.7	2382.8	118.1	804.1
2015	7-Jan-15	22	864.2	826.4	834	1526.3	3794.9	2409.8	120.7	738.4
2015	7-Jan-15	23	774	870.8	693.4	1294.5	3718.3	1965.8	154.2	777.1
2015	8-Jan-15	0	853.2	924.3	583.2	1487.4	3761.5	785.9	57.4	782.4
2015	8-Jan-15	1	808.7	951.8	573	1496.7	3779.7	677.7	39.9	794.5
2015	8-Jan-15	2	820	901.2	384.8	1520.4	3755.4	634.7	62.3	800.8
2015	8-Jan-15	3	786.1	801.8	352.5	1539.3	3772.7	641.2	67.9	788.9
2015	8-Jan-15	4	802.7	848.9	468.3	1555.8	3777	740	99.1	825.3
2015	8-Jan-15	5	760	882	568.9	1660.4	3696.4	1621.3	130.7	806.9
2015	8-Jan-15	6	803.2	765.8	723.1	1745.6	3723.9	1869.3	188	755
2015	8-Jan-15	7	752.8	829.5	821.7	1756.4	3729.2	2367.7	255	783.9
2015	8-Jan-15	8	788.7	809.9	828.2	1819.4	3747.9	2421.2	316.7	781
2015	8-Jan-15	9	754.9	819.3	773.5	1890.1	3730.6	1991	568	847.5
2015	8-Jan-15	10	855.7	822.1	673.1	1896	3726.7	1297.4	950.9	1101.5
2015	8-Jan-15	11	773.6	885.1	581	1859.2	3725	728	1010.7	2456.3
2015	8-Jan-15	12	872.7	864.1	387.6	1862.7	3701.5	641.6	1002.8	3138.3
2015	8-Jan-15	13	758	821	326.1	1887.3	3725.8	651.5	1327.2	3183.1
2015	8-Jan-15	14	837.6	864.7	214.8	1894	3726.9	653.2	1538.4	2903.2
2015	8-Jan-15	15	792.3	874.2	262.4	1956.3	3727.9	655.9	1203.9	2899.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	8-Jan-15	16	810.1	895.1	254.2	1969.2	3730.1	656	1186.7	2619.9
2015	8-Jan-15	17	795.7	885	363	1947	3730.2	793.7	1190.6	2420
2015	8-Jan-15	18	840.1	877.3	389.9	1887.5	3692.1	851.9	1178.7	2257.2
2015	8-Jan-15	19	786.3	862.6	326.5	1939.3	3693.3	616.2	1009.4	2551.4
2015	8-Jan-15	20	833.1	866.1	297.8	1936.5	3701.2	620	980.6	2612.7
2015	8-Jan-15	21	793.4	882.4	266.8	1918.2	3661.2	616.9	914.5	2090
2015	8-Jan-15	22	858	870.3	277.1	1575.5	3558.2	608.3	831.2	1931.4
2015	8-Jan-15	23	790.8	888.3	264.6	1291.4	3206.9	611.3	719.5	1603.4
2015	9-Jan-15	0	873.3	886.3	257.1	988.5	2921.7	615.4	645.5	1699.7
2015	9-Jan-15	1	799.8	885.8	255.6	733.4	2779	615.1	659.3	1849.2
2015	9-Jan-15	2	809.7	883.4	267	722.2	2718.8	613.4	653.7	1722.3
2015	9-Jan-15	3	734.8	851.6	276.3	726.3	2338	612.2	621.9	1689.8
2015	9-Jan-15	4	780.2	785.8	484.8	817.6	2391.7	749.9	757.1	1968.4
2015	9-Jan-15	5	717	776.4	703.9	1381.1	3239.3	1518.9	1162.4	2313.5
2015	9-Jan-15	6	750.4	727	832	1966	3634.2	2399.9	1104.5	2656.7
2015	9-Jan-15	7	863.4	807.4	844.2	1651.7	3638	2425.2	1678.1	2691.5
2015	9-Jan-15	8	740.7	752.1	675	1136.5	3481.9	1443.1	1493.9	2761.6
2015	9-Jan-15	9	606.6	746.2	396.075	780.8	3182.6	671.2	1250.6	2648.7
2015	9-Jan-15	10	570.3	598		721.5	3069.1	620.1	946.6	2110.2
2015	9-Jan-15	11	432.3	440.3		714.9	3002.7	619.8	832.3	2103.1
2015	9-Jan-15	12	406.6	346.4		717.9	2624.2	124.085	739.7	1940.1
2015	9-Jan-15	13	346.3	272.7		679.6	2251.6	0.008	702.4	1703.9
2015	9-Jan-15	14	321.2	221		712.5	2190.7		768.3	1757.3
2015	9-Jan-15	15	284.3	177.6		726.9	2201.6		867	1494.1
2015	9-Jan-15	16	309.4	175.3		728.5	2280.6		1059.5	1013.1
2015	9-Jan-15	17	298.6	195		778.7	2547.7		881.1	733.1
2015	9-Jan-15	18	448.3	287.3		1080.4	3057.2		874.1	1090.6
2015	9-Jan-15	19	477.3	358.9		839.9	3160.2		681.8	1224.7
2015	9-Jan-15	20	540.7	366.2		810.5	3241.9		612.1	1581.8
2015	9-Jan-15	21	318.5	309.7		713	3006		538.4	1595.1
2015	9-Jan-15	22	241.5	261.5		708.6	2709.6		534.9	788.1
2015	9-Jan-15	23	172.7	153		710	2278.3		411.3	750.2
2015	10-Jan-15	0	139.8	137.6		712.9	2284.3		353.9	526.2
2015	10-Jan-15	1	99.2	94.5		711.4	2358.3		152.055	397.7
2015	10-Jan-15	2	106.4	75.3		719.6	2335.5			109.74
2015	10-Jan-15	3	94.7	78.8		713.9	2432			
2015	10-Jan-15	4	108.6	83.9		714.7	2550.9			
2015	10-Jan-15	5	90.1	92.8		718.1	2496.1			
2015	10-Jan-15	6	114.4	79.9		727.7	2706.6			
2015	10-Jan-15	7	186.8	156.5		774	2996.3			
2015	10-Jan-15	8	238.9	231.2		844.3	3407.6			
2015	10-Jan-15	9	158.1	255.5		820	3413.9			
2015	10-Jan-15	10	175.4	237.7		725.8	3342.3			
2015	10-Jan-15	11	145.9	196.2		698.7	3085.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	10-Jan-15	12	161.9	174.4		712.6	2807.9			
2015	10-Jan-15	13	150.9	151		720.1	2527.3			
2015	10-Jan-15	14	157.3	135.2		728.6	2300.8			
2015	10-Jan-15	15	142	136.5		739.1	2387.1			
2015	10-Jan-15	16	161.8	136.9		752.8	2534			
2015	10-Jan-15	17	154.5	181.9		820.1	2948.6			
2015	10-Jan-15	18	225.4	255.9		868.7	3323.3			
2015	10-Jan-15	19	295	292.3		850.1	3649.4			
2015	10-Jan-15	20	394.8	366.9		1228.7	3845			
2015	10-Jan-15	21	478.8	446.7		1488.8	3811			
2015	10-Jan-15	22	597.8	522.8		1400.5	3833.7			
2015	10-Jan-15	23	425.1	438.8		1002.9	3712.1			
2015	11-Jan-15	0	516.2	443.3		1095	3719.2			
2015	11-Jan-15	1	547.5	564.7		1607.2	3885.5			
2015	11-Jan-15	2	719	669.3		1986.5	3931			
2015	11-Jan-15	3	714	709.2		1976.3	3928.5			
2015	11-Jan-15	4	787.1	716.1		1587.6	3877.8			
2015	11-Jan-15	5	640	766.1		1654.5	3890.4			
2015	11-Jan-15	6	687.5	698.7		1916.1	3945			
2015	11-Jan-15	7	853.1	762.1		1900.6	3961.6			
2015	11-Jan-15	8	846.4	706.4		1496.5	3879.4			
2015	11-Jan-15	9	534.9	520.1		895.3	3540.6			
2015	11-Jan-15	10	246.9	388.6		785.9	3115.5			
2015	11-Jan-15	11	23	335.3		792.3	2613.2			
2015	11-Jan-15	12	31.8	317.6		788.6	2414.8			0
2015	11-Jan-15	13	47.5	280.9		806.2	2417.8			0
2015	11-Jan-15	14	212.7	211.5		815.7	2418.9			0
2015	11-Jan-15	15	193	158.9		829.7	2421.2			
2015	11-Jan-15	16	202.8	154.1		825.1	2487.4			
2015	11-Jan-15	17	182.7	180.3		833.4	2855.3			1.35
2015	11-Jan-15	18	192.7	155.7		811	2914.6			0
2015	11-Jan-15	19	182	149.1		802.5	2656.8			0
2015	11-Jan-15	20	213.7	115.8		801.3	2483.2			0
2015	11-Jan-15	21	210.5	106.6		796.8	2422.7			0
2015	11-Jan-15	22	215.2	74.5		791.7	2412.8			59.4
2015	11-Jan-15	23	201.9	69.3		793.3	2388.5			165.9
2015	12-Jan-15	0	204.8	68.4		794.2	2386.7			424.9
2015	12-Jan-15	1	212.1	68.2		794.9	2397.6			939.4
2015	12-Jan-15	2	217.7	67.5		793.6	2401.7			1583.1
2015	12-Jan-15	3	215.2	67.3		796	2387.4			2208.2
2015	12-Jan-15	4	218.7	80.1		794.9	2384.6			3072.3
2015	12-Jan-15	5	213.4	279.8		798.6	2334.5			2814.6
2015	12-Jan-15	6	215.9	636		803.3	2646.5			2705.5
2015	12-Jan-15	7	262.1	755.5		928.3	3031.1			2876.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Jan-15	8	257.7	350.2		837.3	3104.4			2738.9
2015	12-Jan-15	9	251	498.3		900.3	3435.6			2619.7
2015	12-Jan-15	10	239.5	727.4		862.8	3697.4			2480.6
2015	12-Jan-15	11	258.6	857.4		944.2	3879.5			2822.4
2015	12-Jan-15	12	271.9	797		1223.1	3892.6			2873
2015	12-Jan-15	13	271.1	792.6		1511.5	3881.3			2819.2
2015	12-Jan-15	14	285.4	858.4		1645.6	3855.8			2850.7
2015	12-Jan-15	15	267.9	784.9		1645.6	3843.7			2797.4
2015	12-Jan-15	16	218.9	619.2		1529.2	3727.2			2702.6
2015	12-Jan-15	17	407.8	357.2		1699.9	3796.2			2964
2015	12-Jan-15	18	833.9	279.1		1955.6	3857.3			3619.1
2015	12-Jan-15	19	210	259		1346.5	3676.2			3048.2
2015	12-Jan-15	20	142.5	251.8		886	3322.3			2574.7
2015	12-Jan-15	21	124	194.3		835.9	2944			1963.9
2015	12-Jan-15	22	94.3	134.3		817.8	2571.7			1851.7
2015	12-Jan-15	23	88.2	100.8		805.2	2351.9			1906.1
2015	13-Jan-15	0	93.4	82.8		80.4	2347.7			1896.4
2015	13-Jan-15	1	86.2	73.8		0	2345.3			2037.7
2015	13-Jan-15	2	90.9	75.4		0	2331.3			2034.5
2015	13-Jan-15	3	87.4	75.2		0	2330.9			2210
2015	13-Jan-15	4	93.1	71.3		0	2335.2			2232.8
2015	13-Jan-15	5	90.8	72.8		0	2395.4			2216.4
2015	13-Jan-15	6	104.6	78		0	2677.8			2259.9
2015	13-Jan-15	7	134.6	136.7			3043			2371.6
2015	13-Jan-15	8	121.9	171			3049.6			2285.5
2015	13-Jan-15	9	118.7	195.4			3291.6			2297.8
2015	13-Jan-15	10	89.7	110.3			2852.9			1915.4
2015	13-Jan-15	11	95.8	108.8			2852.6			1601.3
2015	13-Jan-15	12	88.4	85.9			2696.3			1727.1
2015	13-Jan-15	13	84.7	71			2562.8			1674.5
2015	13-Jan-15	14	87.1	78.3			2372.6			1722.7
2015	13-Jan-15	15	89.8	84.3			2514			1836.9
2015	13-Jan-15	16	138.2	142.3			2920.3			2088.6
2015	13-Jan-15	17	208.1	183.6			3430.8			2676.4
2015	13-Jan-15	18	237.8	182.1			3700.3			2841.8
2015	13-Jan-15	19	310.1	236.9			3729.6			2623
2015	13-Jan-15	20	341.6	280.2			3720.1			2613
2015	13-Jan-15	21	329.4	300.3			3556.4			2117.6
2015	13-Jan-15	22	298.3	262.5			3408.7			1477.2
2015	13-Jan-15	23	221.6	242.7			3112.8			1118.9
2015	14-Jan-15	0	195.1	235.2			2948.4			775
2015	14-Jan-15	1	163	185.9			2731.4			717.1
2015	14-Jan-15	2	162.8	165.4			2626			1148.4
2015	14-Jan-15	3	145.6	156.4			2516.6			970.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	14-Jan-15	4	157.9	164.2			2642.9			887.1
2015	14-Jan-15	5	178.1	206.8			3036.8			980.5
2015	14-Jan-15	6	345.6	232.9			3380			1717.5
2015	14-Jan-15	7	750.2	316.6			3628.5			2227.2
2015	14-Jan-15	8	836.1	384.3			3605.2			2346.9
2015	14-Jan-15	9	750.5	618			3711.1			2530.7
2015	14-Jan-15	10	749.9	759			3715			1852.9
2015	14-Jan-15	11	809.1	842.6			3732.8			1581.1
2015	14-Jan-15	12	768.2	793.7			3721.2			1260.5
2015	14-Jan-15	13	657.8	799.2			3626.5			1445.4
2015	14-Jan-15	14	747.9	799.1			3604.1			2054.5
2015	14-Jan-15	15	787.8	852.3			3700.4			2345.4
2015	14-Jan-15	16	774.7	818.5			3751.5			2672.3
2015	14-Jan-15	17	738.9	834.4			3762.4			2572.9
2015	14-Jan-15	18	742.6	832.5			3758			2785.9
2015	14-Jan-15	19	741.9	821.4			3779.4			2761.7
2015	14-Jan-15	20	774.4	811.1			3753.3			2240.9
2015	14-Jan-15	21	735.6	790.9			3730.1			1590.4
2015	14-Jan-15	22	629.3	695.4			3547.5			1489.5
2015	14-Jan-15	23	471.4	431.3			3167.3			1452.3
2015	15-Jan-15	0	332.6	311.5			2779.5			1141.2
2015	15-Jan-15	1	221	257.3			2442.2			997.1
2015	15-Jan-15	2	211	195.1			2238.4			981.8
2015	15-Jan-15	3	187.9	179.2			2228.1			1002.3
2015	15-Jan-15	4	175.1	171.2			2300.1			956.8
2015	15-Jan-15	5	166	176.7			2476			866.7
2015	15-Jan-15	6	231.9	277.3			2841.8			923.7
2015	15-Jan-15	7	348.9	448.1			3238.5			1019.5
2015	15-Jan-15	8	291.7	366.8			3122			1328.9
2015	15-Jan-15	9	255.7	338.1			2751.7			1065.4
2015	15-Jan-15	10	285.5	254.5			2636.4			964.9
2015	15-Jan-15	11	217.6	160.3			2588.3			1110.3
2015	15-Jan-15	12	168.4	129.2	0.036		2357.3			896.3
2015	15-Jan-15	13	127.8	89.8	0.065		2220.9			775.2
2015	15-Jan-15	14	98.2	79.5	0.065		2220.8			779.1
2015	15-Jan-15	15	76.2	68	0.065		2231.2			792.5
2015	15-Jan-15	16	89.6	72.3	0.077		2212			768.7
2015	15-Jan-15	17	97	77	0.083		2377.5			766.5
2015	15-Jan-15	18	97.6	77.4	0.086		2557.1			699.5
2015	15-Jan-15	19	79.4	69.8	0.087		2474.6			686.7
2015	15-Jan-15	20	83.5	69.3	0.069		2458.7			661.3
2015	15-Jan-15	21	80.3	70.1	0.065		2249.4			539
2015	15-Jan-15	22	85.6	68.1	0.065		2217.4			536.7
2015	15-Jan-15	23	81.4	72	0.059		2235.3			524.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	16-Jan-15	0	85.5	72.2	0.05		2238.7			592.5
2015	16-Jan-15	1	81.1	69.9	0.05		2225.9			530.3
2015	16-Jan-15	2	84.3	65.7	0.05		2225.3			520
2015	16-Jan-15	3	80.1	60.6	0.05		2218.7			514.4
2015	16-Jan-15	4	80.2	64.6	0.05		2218.7			514.5
2015	16-Jan-15	5	78.9	71.8	0.05		2293			514.4
2015	16-Jan-15	6	83.9	67.7	0.05		2486.7			670.9
2015	16-Jan-15	7	126.1	108.6	0.065		2963.2			1025
2015	16-Jan-15	8	135.4	106.6	0.053		2877.6			808.3
2015	16-Jan-15	9	80.2	64.5	0.05		2423			481.1
2015	16-Jan-15	10	74.7	68	0.051		2383.6			489.9
2015	16-Jan-15	11	80.5	66.8	0.051		2247.6			490.6
2015	16-Jan-15	12	78.7	70.8	0.041		2226.8			480.1
2015	16-Jan-15	13	82.9	65.7			2238.8			557.5
2015	16-Jan-15	14	80.1	64.6			2236.1			732.4
2015	16-Jan-15	15	79	66.1			2234.6			802
2015	16-Jan-15	16	76.2	66.2			2248.2			965.5
2015	16-Jan-15	17	73.3	65.7			2273.7			560.6
2015	16-Jan-15	18	69.9	65.9			2284.5			473.5
2015	16-Jan-15	19	70.7	66.1			2273.5			460.4
2015	16-Jan-15	20	80.6	78.1			2398.2			455.4
2015	16-Jan-15	21	68.9	66.7			2269.3			452.5
2015	16-Jan-15	22	68.4	69.1			2263.8			460.5
2015	16-Jan-15	23	124.9	67.8			2261.1			454.8
2015	17-Jan-15	0	118.1	66.4			2254.6			
2015	17-Jan-15	1	152.7	68.9			2299.7			
2015	17-Jan-15	2	155.7	73.4			2351.6			
2015	17-Jan-15	3	175.2	71.7			2412.1			
2015	17-Jan-15	4	164.1	64.4			2249.7			
2015	17-Jan-15	5	178.7	72.1			2464.4			
2015	17-Jan-15	6	188.5	94.9			2921.6			
2015	17-Jan-15	7	254.4	155.3			3397.1			
2015	17-Jan-15	8	278.4	150.2			3436.6			
2015	17-Jan-15	9	261.8	130.3			3344.4			
2015	17-Jan-15	10	218.5	129	0.049		3087.6			
2015	17-Jan-15	11	208.9	106	0.065		2652.1			
2015	17-Jan-15	12	159.7	78.5	0.051		2319.9			
2015	17-Jan-15	13	174.2	69.1	0.051		2285.3			
2015	17-Jan-15	14	167.5	68.2	0.052		2272.6			
2015	17-Jan-15	15	172.7	67.5	0.051		2278.5			
2015	17-Jan-15	16	98.7	69.5	0.061		2289.1			
2015	17-Jan-15	17	75.1	69.9	0.066		2336			
2015	17-Jan-15	18	76.8	69.8	0.053		2396.7			
2015	17-Jan-15	19	74.7	68.4	0.051		2366.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	17-Jan-15	20	70.7	70	0.051		2312.2			
2015	17-Jan-15	21	72	65	0.051		2284.2			
2015	17-Jan-15	22	62.7	62.5	0.051		2280.2			
2015	17-Jan-15	23	72.1	67.4	0.051		2283.3			
2015	18-Jan-15	0	64.7	68.4	0.063		2264.9			
2015	18-Jan-15	1	73.2	64.7	0.059		2271			
2015	18-Jan-15	2	66.9	63.1	0.051		2269.4			
2015	18-Jan-15	3	68.6	58.2	0.051		2269.2			
2015	18-Jan-15	4	63.1	61	0.051		2283.1			
2015	18-Jan-15	5	66.8	70.3	0.051		2243.5			
2015	18-Jan-15	6	61.6	60.2	0.061		2269.7			
2015	18-Jan-15	7	80.9	76	0.061		2283.1			
2015	18-Jan-15	8	70.5	72.7	0.051		2266.7			
2015	18-Jan-15	9	59.3	61.4	0.054		2256.4			
2015	18-Jan-15	10	55.7	65	0.066		2265.6			
2015	18-Jan-15	11	64.8	65.5	0.066		2246.1			
2015	18-Jan-15	12	65.1	65.4	0.066		2241.2			
2015	18-Jan-15	13	65.2	66.5	0.059		2246.8			
2015	18-Jan-15	14	57.9	66.3	0.055		2259.7			
2015	18-Jan-15	15	64.6	61.2	0.065		2261.3			
2015	18-Jan-15	16	55.6	64	0.06		2275.8			
2015	18-Jan-15	17	62	61.3	0.051		2257.8			
2015	18-Jan-15	18	53.7	63	0.051		2263.9			
2015	18-Jan-15	19	58.9	65.2	0.057		2278			
2015	18-Jan-15	20	55.2	67	0.066		2283.2			
2015	18-Jan-15	21	62.4	63.9	0.065		2288.9			
2015	18-Jan-15	22	53.5	64.2	0.062		2284.7			
2015	18-Jan-15	23	60.2	63.9	0.051		2297.1			
2015	19-Jan-15	0	54	65.1	0.064		2287			
2015	19-Jan-15	1	61.7	63.7	0.065		2271.7			
2015	19-Jan-15	2	52.8	64.8	0.051		2283.7			
2015	19-Jan-15	3	59.3	61.1	0.053		2285.5			
2015	19-Jan-15	4	51.4	64.6	0.065		2285.1			
2015	19-Jan-15	5	58.5	62.3	0.066		2245.1			
2015	19-Jan-15	6	53.5	63.8	0.066		2379.8			
2015	19-Jan-15	7	68	78.2	0.058		2571.9			
2015	19-Jan-15	8	49.9	89.2	0.051		2720.7			
2015	19-Jan-15	9	47.9	63.5	0.06		2688.1			
2015	19-Jan-15	10	48.9	62.3	0.066		2574.7			
2015	19-Jan-15	11	57.9	62.7	0.066		2324.2			
2015	19-Jan-15	12	55.6	64.1	0.066		2284.4			
2015	19-Jan-15	13	59.1	62.9	0.063		2276.5			
2015	19-Jan-15	14	59.9	65.6	0.051		2258.7			
2015	19-Jan-15	15	55.8	66.6	0.059		2263.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	19-Jan-15	16	50.5	64.9	0.065		2272			
2015	19-Jan-15	17	60.7	67	0.055		2231.5			
2015	19-Jan-15	18	59.9	69.6	0.051		2319.3			
2015	19-Jan-15	19	59.8	62.3	0.051		2265			
2015	19-Jan-15	20	54.5	63.8	0.051		2386.1			
2015	19-Jan-15	21	60.6	63.5	0.051		2356.2			
2015	19-Jan-15	22	56.1	66	0.051		2288.9			
2015	19-Jan-15	23	61.8	66.8	0.051		2279.3			
2015	20-Jan-15	0	54.2	67.2	0.051		2291.7			
2015	20-Jan-15	1	60.5	63.3	0.051		2279.6			
2015	20-Jan-15	2	56.1	64.1	0.051		2299.1			
2015	20-Jan-15	3	56.7	58.3	0.051		2269.8			
2015	20-Jan-15	4	51.7	60.6	0.051		2276.9			
2015	20-Jan-15	5	68	93.1	0.051		2382.3			
2015	20-Jan-15	6	127	186.1	0.051		2945.9			
2015	20-Jan-15	7	186.2	378.8	0.051		3512.7			
2015	20-Jan-15	8	193.6	388.2	0.051		3432.3			
2015	20-Jan-15	9	163.2	270.5	0.051		3047.7			
2015	20-Jan-15	10	93.7	197.8	0.051		2722.9			
2015	20-Jan-15	11	73.8	143.5	0.051		2493.6			
2015	20-Jan-15	12	68.5	110.4	0.051		2289.4			
2015	20-Jan-15	13	80.7	82.2	0.051		2289.8			
2015	20-Jan-15	14	73.6	81.5	0.051		2278.8			
2015	20-Jan-15	15	82.1	83	0.051		2283.5			
2015	20-Jan-15	16	66.8	89.2	0.051		2266			
2015	20-Jan-15	17	72.3	93.4	0.05		2287.9			
2015	20-Jan-15	18	65.4	88.1	0.051		2321.4			
2015	20-Jan-15	19	63.2	79.5	0.051		2380.5			
2015	20-Jan-15	20	58.7	74.4	0.051		2287			
2015	20-Jan-15	21	60.9	78.8	0.051		2273.5			
2015	20-Jan-15	22	58.8	79	0.051		2262.2			
2015	20-Jan-15	23	59.4	161.1	0.051		2258.7			
2015	21-Jan-15	0	68.4	173.7	0.051		2276			
2015	21-Jan-15	1	80.5	174.4	0.051		2279.3			
2015	21-Jan-15	2	54.1	174.2	0.051		2281.8			
2015	21-Jan-15	3	78.9	178	0.051		2287.9			
2015	21-Jan-15	4	67.7	170.4	0.051		2290.3			
2015	21-Jan-15	5	84.2	197.3	0.051		2298.9			
2015	21-Jan-15	6	126.5	480.9	0.051		2758.5			
2015	21-Jan-15	7	157.7	526	0.051		3279.5			
2015	21-Jan-15	8	136.8	449.3	0.051		3493.5			
2015	21-Jan-15	9	118	249	0.051		3305.3			
2015	21-Jan-15	10	100.7	204.4	0.061		3110.6			
2015	21-Jan-15	11	89.7	187.5	0.066		2828.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	21-Jan-15	12	64.3	181.5	0.061		2520.5			
2015	21-Jan-15	13	62	183.2	0.051		2304.7			
2015	21-Jan-15	14	64.1	170.8	0.051		2283.1			
2015	21-Jan-15	15	65	76.3	0.051		2268.8			
2015	21-Jan-15	16	75.1	76.5	0.051		2290.2			
2015	21-Jan-15	17	73	86.6	0.051		2405.8			
2015	21-Jan-15	18	93.5	102.9	0.051		2809.9			
2015	21-Jan-15	19	107.8	119.1	0.051		3061.1			
2015	21-Jan-15	20	117.6	132.1	0.051		3246.3			
2015	21-Jan-15	21	105.5	99.3	0.051		2872.4			
2015	21-Jan-15	22	74.7	68.3	0.051		2444.1			
2015	21-Jan-15	23	71.4	70.6	0.051		2297.4			
2015	22-Jan-15	0	60.5	69.5	0.051		2286.3			
2015	22-Jan-15	1	66	63.6	0.051		2301.3			
2015	22-Jan-15	2	60.3	65	0.051		2292.5			
2015	22-Jan-15	3	60.7	62.7	0.051		2299.4			
2015	22-Jan-15	4	56.2	67.5	0.051		2298.2			
2015	22-Jan-15	5	92.1	96	0.051		2382.2			
2015	22-Jan-15	6	266.8	262.4	0.054		3025.3			
2015	22-Jan-15	7	442.2	384.5	0.066		3529.6			
2015	22-Jan-15	8	242.4	418.4	0.066		3501.5			
2015	22-Jan-15	9	185.9	281.5	0.066		3290.9			
2015	22-Jan-15	10	128.4	229.9	0.056		3031.5			
2015	22-Jan-15	11	107.1	165.1	0.051		2691.2			
2015	22-Jan-15	12	75.4	141	0.051		2344.7			
2015	22-Jan-15	13	83.4	124.1	0.051		2313.2			
2015	22-Jan-15	14	69	94.1	0.051		2304.2			
2015	22-Jan-15	15	72.5	81.4	0.051		2298.6			
2015	22-Jan-15	16	70	84.7	0.051		2331.4			
2015	22-Jan-15	17	122.5	138.9	0.051		2389.6			
2015	22-Jan-15	18	117.4	151.9	0.051		2761			
2015	22-Jan-15	19	154.5	171.4	0.051		3217.7			
2015	22-Jan-15	20	146.8	157.2	0.051		3341.7			
2015	22-Jan-15	21	185	151.8	0.051		3075			
2015	22-Jan-15	22	166.4	116.3	0.051		2768.3			
2015	22-Jan-15	23	141.8	92	0.051		2416.6			
2015	23-Jan-15	0	125.3	62.7	0.052		2324.1			
2015	23-Jan-15	1	140.3	69.3	0.051		2324.2			
2015	23-Jan-15	2	123.5	66.6	0.051		2310.6			
2015	23-Jan-15	3	128.8	64.6	0.051		2315.3			
2015	23-Jan-15	4	112.8	64	0.051		2358.6			
2015	23-Jan-15	5	157.5	91.4	0.051		2432			
2015	23-Jan-15	6	237.8	197.1	0.051		2847.5			
2015	23-Jan-15	7	398.9	373.2	0.051		3137			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Jan-15	8	325.2	296.4	0.051		3021.4			
2015	23-Jan-15	9	338.4	201.5	0.051		2926.3			
2015	23-Jan-15	10	286.1	165.3	0.051		2787.4			
2015	23-Jan-15	11	239.6	126.5	0.051		2546.4			
2015	23-Jan-15	12	189.4	117.2	0.051		2677.8			
2015	23-Jan-15	13	210.1	103	0.051		2984.8			
2015	23-Jan-15	14	179.3	119.8	0.051		3171.8			
2015	23-Jan-15	15	146.2	143.5	0.051		3262.8			
2015	23-Jan-15	16	99.2	161.9	0.051		3352.5			
2015	23-Jan-15	17	107	141.4	0.051		3327.1			
2015	23-Jan-15	18	98.7	139.5	0.051		2932.7			
2015	23-Jan-15	19	97.8	134.3	0.051		2737.5			
2015	23-Jan-15	20	66.5	128.1	0.051		2459.5			
2015	23-Jan-15	21	62.2	138.8	0.051		2367.1			
2015	23-Jan-15	22	55.4	116.6	0.051		2354.2			
2015	23-Jan-15	23	75	102.8	0.051		2354.8			
2015	24-Jan-15	0	81.6	96.9	0.051		2354.4			
2015	24-Jan-15	1	133.8	88.4	0.051		2350.2			
2015	24-Jan-15	2	152.4	90.6	0.06		2356.3			
2015	24-Jan-15	3	160.7	79.3	0.06		2363.7			
2015	24-Jan-15	4	151.8	74.6	0.051		2350			
2015	24-Jan-15	5	154.5	80.7	0.062		2307.7			
2015	24-Jan-15	6	125.3	65	0.058		2361.1			
2015	24-Jan-15	7	118.3	74.9	0.05		2367			
2015	24-Jan-15	8	74.8	72.4	0.051		2328.2			
2015	24-Jan-15	9	79.2	73.2	0.051		2532.4			
2015	24-Jan-15	10	142.8	105	0.051		2992			
2015	24-Jan-15	11	167.8	87.4	0.051		3118			
2015	24-Jan-15	12	129.9	66.8	0.051		2795.2			
2015	24-Jan-15	13	109.2	53.7	0.051		2493.8			
2015	24-Jan-15	14	103.3	55.9	0.051		2487.4			
2015	24-Jan-15	15	112.7	58.3	0.05		2507.9			
2015	24-Jan-15	16	96.5	58.9	0.05		2524.6			
2015	24-Jan-15	17	111.3	61.4	0.05		2684.5			
2015	24-Jan-15	18	118.1	75.5	0.05		2983			
2015	24-Jan-15	19	149.6	62.1	0.05		2897.7			
2015	24-Jan-15	20	124.4	55.7	0.05		2643.8			
2015	24-Jan-15	21	138.1	63.2	0.05		2563.4			
2015	24-Jan-15	22	126.1	68.2	0.05		2577.8			
2015	24-Jan-15	23	141.9	69.6	0.051		2552			
2015	25-Jan-15	0	131.1	65	0.051		2589.1			
2015	25-Jan-15	1	133.1	60.9	0.051		2571.1			
2015	25-Jan-15	2	126.4	59.6	0.051		2562.4			
2015	25-Jan-15	3	137.5	61.4	0.051		2556.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	25-Jan-15	4	125.7	57.9	0.057		2547.7			
2015	25-Jan-15	5	151.6	56.2	0.065		2501.3			
2015	25-Jan-15	6	128	60.5	0.065		2536			
2015	25-Jan-15	7	104.5	69.6	0.065		2540.2			
2015	25-Jan-15	8	81.5	70.5	0.065		2521.6			
2015	25-Jan-15	9	85.5	63.2	0.065		2515.9			
2015	25-Jan-15	10	90.1	61.3	0.055		2521.9			
2015	25-Jan-15	11	111.8	61.7	0.065		2520.6			
2015	25-Jan-15	12	100.2	60.7	0.065		2511			
2015	25-Jan-15	13	113.4	60.7	0.065		2499.1			
2015	25-Jan-15	14	108	59.9	0.057		2509.9			
2015	25-Jan-15	15	118.6	58.6	0.062		2508			
2015	25-Jan-15	16	106.2	63.2	0.065		2497.8			
2015	25-Jan-15	17	111.3	64.7	0.065		2637.9			
2015	25-Jan-15	18	138.3	68.7	0.065		2945.9			
2015	25-Jan-15	19	166.3	72.3	0.062		2784.2			
2015	25-Jan-15	20	126.4	67.8	0.05		2721.1			
2015	25-Jan-15	21	128.1	65.8	0.061		2515.9			
2015	25-Jan-15	22	58	65.7	0.065		2500.4			
2015	25-Jan-15	23	47.9	64.6	0.065		2492.6			
2015	26-Jan-15	0	50.2	66.2	0.065		2485			
2015	26-Jan-15	1	45.4	63.7	0.065		2467.8			
2015	26-Jan-15	2	39.2	62.2	0.065		2454			
2015	26-Jan-15	3	44.1	63.3	0.065		2446.2			
2015	26-Jan-15	4	45.6	61	0.065		2429.8			
2015	26-Jan-15	5	50.7	66	0.065		2411.5			
2015	26-Jan-15	6	50	61.8	0.065		2508.1			
2015	26-Jan-15	7	59	82.8	0.065		2833			
2015	26-Jan-15	8	38.6	101.4	0.065		3315.7			
2015	26-Jan-15	9	47.8	143.7	0.065		3681.6			
2015	26-Jan-15	10	104.1	213.2	0.065	0	3992.1			
2015	26-Jan-15	11	171.6	288.3	0.065	0	4043.7			0
2015	26-Jan-15	12	312.2	356.4	0.065	0.3	4058.6			0
2015	26-Jan-15	13	421.9	360.4	0.065	0	4044.5			0
2015	26-Jan-15	14	368	319.8	0.065	0	3670.4			0
2015	26-Jan-15	15	290.8	338.9	0.022	0	3514.8			1.6
2015	26-Jan-15	16	334.4	348.2		0	3594.2		0	9.5
2015	26-Jan-15	17	388.5	405.8		0	3646.3		0	17.9
2015	26-Jan-15	18	374.7	382.2		0	3844.5		0	53.9
2015	26-Jan-15	19	438.6	360		0	3658		2	6
2015	26-Jan-15	20	396.9	337.2		0	3531.1		16.3	10.7
2015	26-Jan-15	21	331.1	284.1		0	3366		19	1.5
2015	26-Jan-15	22	208	189.5		0	3252.8		21.5	6.3
2015	26-Jan-15	23	167.5	150.4		0	2915.7		23.1	0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	27-Jan-15	0	114.5	123.5		0	2658.6		24.6	6.5
2015	27-Jan-15	1	99.1	93.9		0	2375.1		24.7	35.7
2015	27-Jan-15	2	74.3	83.7		0	2367.9		48.1	135.6
2015	27-Jan-15	3	67.6	84.6		153	2338.8		70.1	223.4
2015	27-Jan-15	4	68.5	80.2		791.7	2351.8		61.3	336.8
2015	27-Jan-15	5	209	78.3		864	2352.2		47.7	574.5
2015	27-Jan-15	6	278.8	68.8		770.4	2386.3		43.8	474.6
2015	27-Jan-15	7	381.2	103.1		769	2683.4		46.5	484.3
2015	27-Jan-15	8	459	109.7		770.8	3078.5		48.8	497.9
2015	27-Jan-15	9	488.5	115.4		787.8	3203.3		66.2	492.4
2015	27-Jan-15	10	467.3	165.4		859.3	3434.5		99.4	476.4
2015	27-Jan-15	11	444.9	198.1		779.5	3360.5		110.6	476.4
2015	27-Jan-15	12	433.3	203		784.7	3270.8		149.5	451.1
2015	27-Jan-15	13	410.4	201.5		790.8	2885.2		199.8	453.2
2015	27-Jan-15	14	456.6	237.7		793.7	2788.7		276.5	459.4
2015	27-Jan-15	15	461.4	245.9		793.3	2657.1		416.1	471.1
2015	27-Jan-15	16	453.3	230.7		792	2753.5		558.5	489.6
2015	27-Jan-15	17	420.4	266.3		882.3	2975.1		605.2	498.9
2015	27-Jan-15	18	447.3	342.2		1049.8	3412.9		606.2	582.4
2015	27-Jan-15	19	410.9	298.6		843.1	3437.3		570.8	468.3
2015	27-Jan-15	20	421.9	308.3		790.2	3460.5		561.8	467.9
2015	27-Jan-15	21	362.3	325.3		786.6	3255.6		585.6	444.2
2015	27-Jan-15	22	266.5	235.1		775.3	2934.3		537	412.1
2015	27-Jan-15	23	166.5	182.5		747.8	2595.7		526.7	456.1
2015	28-Jan-15	0	129.1	145.9		735.4	2552		531.5	456.2
2015	28-Jan-15	1	97	127.3		734.6	2495.4		551.6	459.8
2015	28-Jan-15	2	82.4	114.2		737	2546.3		573.8	463.5
2015	28-Jan-15	3	69.8	89.8		733.4	2611.6		564.8	480.8
2015	28-Jan-15	4	248.1	163.6		1122.3	2959.6			668.2
2015	28-Jan-15	5	552.1	300.8		1913.8	3692.5			913.4
2015	28-Jan-15	6	546.9	308.4		1924.9	3815.8		0	685.7
2015	28-Jan-15	7	508.4	465		1904.2	3799.5		31.7	796.2
2015	28-Jan-15	8	403.7	533.3		1896.7	3778.1		45.8	905.2
2015	28-Jan-15	9	340	545.6		1112.6	3571.5		61.7	742.2
2015	28-Jan-15	10	298.9	586.7		686.4	3212.5		51.9	550.2
2015	28-Jan-15	11	216.4	577.6		738.1	2685.7		55.8	501.5
2015	28-Jan-15	12	227.9	523.7		745.5	2324.3		73.7	499.9
2015	28-Jan-15	13	223.6	555.9		750.6	2294		211.2	491.6
2015	28-Jan-15	14	228.8	575.3		760.5	2302.3		325.8	483.7
2015	28-Jan-15	15	227.3	567.3		765.1	2299.8		506	495.7
2015	28-Jan-15	16	235.2	519.8		765	2305.1		178.398	495.4
2015	28-Jan-15	17	239.2	453.8		784.1	2446.2			545.6
2015	28-Jan-15	18	241.8	415.1		1101.3	2985.6			802.4
2015	28-Jan-15	19	264.4	401.6		1161.4	3497.4			908

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	28-Jan-15	20	440.8	421.5		752.6	3566.5			867
2015	28-Jan-15	21	438	399.6		707.8	3472.7			752.6
2015	28-Jan-15	22	317.6	418.9		696.8	3194.8			663.1
2015	28-Jan-15	23	224.6	432.2		700.6	2721.5			533.7
2015	29-Jan-15	0	161.4	328.1		704.9	2384.7			523.4
2015	29-Jan-15	1	142.8	321.7		715.1	2285.9			505.1
2015	29-Jan-15	2	130.9	339		708.7	2268			501.5
2015	29-Jan-15	3	122.9	227.8		717.6	2339.5			498.8
2015	29-Jan-15	4	127.7	174.6		730.2	2522.5			496.3
2015	29-Jan-15	5	124.5	198.3		740.5	2598.3			509
2015	29-Jan-15	6	161.1	285.8		832.1	2934.7			700.8
2015	29-Jan-15	7	212	384.5		1547.3	3340.7			863.1
2015	29-Jan-15	8	173.6	357.4		984.1	3288.9			865.7
2015	29-Jan-15	9	121.4	250.1		696.5	2881.8			867
2015	29-Jan-15	10	106.1	217.7		721.1	2357.5			939.9
2015	29-Jan-15	11	108.3	175.4		730.8	2263.7			994.1
2015	29-Jan-15	12	103.9	152.2		731.5	2232.8			1031.4
2015	29-Jan-15	13	99.3	144.3		732.4	2213.3			987.3
2015	29-Jan-15	14	88.7	140		733.3	2219.5			914.8
2015	29-Jan-15	15	74	141.3		723.5	2224.3			884.1
2015	29-Jan-15	16	80.5	140.3		721.8	2241.9			880.9
2015	29-Jan-15	17	75	148.2		741.4	2368.4			883.4
2015	29-Jan-15	18	63.5	124.5		722.2	2418.8			939.7
2015	29-Jan-15	19	42.5	107.2		720.6	2260.6			926.5
2015	29-Jan-15	20	40.1	75.2		716.3	2230.6			759.6
2015	29-Jan-15	21	41.3	60.4		727.7	2187.6			647.1
2015	29-Jan-15	22	41.3	55.4		733.1	2126			555.2
2015	29-Jan-15	23	39.7	54.8		739.2	2235.2			477.2
2015	30-Jan-15	0	38.5	54.9		749	2237.3			56.7
2015	30-Jan-15	1	39.1	56.8		750.6	2243.3			
2015	30-Jan-15	2	39.1	54.9		752.5	2255.2			
2015	30-Jan-15	3	38.5	58.3		759.6	2245			
2015	30-Jan-15	4	36.8	55.3		745.1	2241.7			
2015	30-Jan-15	5	37.4	65.1		734	2230.5			
2015	30-Jan-15	6	35.7	63.5		749.2	2292.2			
2015	30-Jan-15	7	44.9	75.4		853.9	2756.6			
2015	30-Jan-15	8	18.5	65.5		733.7	2552.8			
2015	30-Jan-15	9	5.5	76		747.8	2465.6			
2015	30-Jan-15	10	23.5	92		758.1	2747.1			
2015	30-Jan-15	11	33.1	95.2		827.7	2817.7			
2015	30-Jan-15	12	28.1	72.4		754	2697.1			
2015	30-Jan-15	13	28.7	62.9		760.1	2645.5			
2015	30-Jan-15	14	25.6	60.5		763.3	2491.2			
2015	30-Jan-15	15	33.4	64		764.1	2371.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	30-Jan-15	16	31.2	64.7		763.1	2461.5			
2015	30-Jan-15	17	45	69.8		800	2636			
2015	30-Jan-15	18	60.1	113.4		1272.7	3214.2			
2015	30-Jan-15	19	104.9	194.4		1605.9	3674.6			
2015	30-Jan-15	20	202.8	320.7		1543.2	3919			
2015	30-Jan-15	21	275.3	384.7		1492.5	3843.7			
2015	30-Jan-15	22	319.3	409.3		1290	3319.9			
2015	30-Jan-15	23	242.6	302.8		853	2869.8			
2015	31-Jan-15	0	227.8	221.5		740.9	2689.6			
2015	31-Jan-15	1	192.1	238.3		740.8	2969.2			
2015	31-Jan-15	2	184.8	211.3		737.2	2963.4			
2015	31-Jan-15	3	174.5	212.6		733.7	2726.4			
2015	31-Jan-15	4	200.8	232.8		735.8	2941.2			
2015	31-Jan-15	5	225.2	422		784	3108			
2015	31-Jan-15	6	352.3	565.6		829.2	3315.1			
2015	31-Jan-15	7	465.6	559.1		1120.2	3402.9			
2015	31-Jan-15	8	483.6	447.4		1634.9	3431			
2015	31-Jan-15	9	463.2	457.4		1706.8	3397.6			
2015	31-Jan-15	10	345.7	364.8		1589.6	3395.4			
2015	31-Jan-15	11	173.3	225.8		1145.8	3354.4			
2015	31-Jan-15	12	178.6	195.2		756.6	3236.2			
2015	31-Jan-15	13	104.9	116.8		707.3	2850.8			
2015	31-Jan-15	14	80.5	102.5		712.4	2669.4			
2015	31-Jan-15	15	66.5	67.9		716.7	2419.3			
2015	31-Jan-15	16	67.8	64.3		722.2	2378.5			
2015	31-Jan-15	17	65.8	63.5		759.7	2487.1			
2015	31-Jan-15	18	77.7	72.7		860.4	2829.9			
2015	31-Jan-15	19	58.2	60.9		743.9	2865.8			
2015	31-Jan-15	20	69.9	80.9		744	3269.6			
2015	31-Jan-15	21	50.9	80		739.9	3137.8			
2015	31-Jan-15	22	55.2	55.1		742.3	2690.5			
2015	31-Jan-15	23	49.6	52.1		746.5	2381.6			
2015	1-Feb-15	0	51.8	54.5		747.3	2514.5			
2015	1-Feb-15	1	53.4	57.8		768.4	2839			
2015	1-Feb-15	2	48.1	51.7		741	2694.4			
2015	1-Feb-15	3	55.1	54.9		747.9	2803.1			
2015	1-Feb-15	4	49	51.6		744.3	2453.3			
2015	1-Feb-15	5	49.3	59		739.1	2401.2			
2015	1-Feb-15	6	40.4	53.1		735.6	2409.3			
2015	1-Feb-15	7	43.5	68.7		744.7	2367.7			
2015	1-Feb-15	8	34.7	69.2		747.7	2545.8			
2015	1-Feb-15	9	21	59.8		774.8	2790.2			
2015	1-Feb-15	10	23.4	59		741.1	2769.9			
2015	1-Feb-15	11	23.4	57.3		743	2455.4			0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Feb-15	12	24.8	56.2		747.4	2400.5			0
2015	1-Feb-15	13	26.4	56		745.6	2405.4			0
2015	1-Feb-15	14	22.1	61.3		763.8	2604.1			0
2015	1-Feb-15	15	22.9	60.5		752	2415.7			9.9
2015	1-Feb-15	16	14.8	60.1		746.6	2415			31.1
2015	1-Feb-15	17	13.9	62.2		787.7	2573.6			13.2
2015	1-Feb-15	18	26.6	77.2		898.9	3018.7			0
2015	1-Feb-15	19	13.7	64.4		763.2	2811.9			0
2015	1-Feb-15	20	13.9	63.3		731.9	2409			4
2015	1-Feb-15	21	23.7	65.2		749.6	2342.9			116.5
2015	1-Feb-15	22	25	59.3		755	2370.4			207.3
2015	1-Feb-15	23	33.3	55.7		759.3	2403.5			253.7
2015	2-Feb-15	0	26.7	52		759.7	2362.9			324.2
2015	2-Feb-15	1	26.7	51.8		755	2347.2			402.6
2015	2-Feb-15	2	23.9	52.1		765.6	2352			394
2015	2-Feb-15	3	32.4	53.3		770.8	2350.9			579.4
2015	2-Feb-15	4	24.5	53.5		770.4	2367.4			666.1
2015	2-Feb-15	5	26.1	54.4		755	2788.9			654.2
2015	2-Feb-15	6	25.2	55.4		752.6	3282.1			664
2015	2-Feb-15	7	24.4	60.4		748.1	3758.8			623
2015	2-Feb-15	8	17.4	64.3		742.6	3870.2		0	720.7
2015	2-Feb-15	9	12	56.3		744.3	3907.4		0	727.1
2015	2-Feb-15	10	13.4	56.3		747.6	3903.2		1.2	724.7
2015	2-Feb-15	11	10.9	59.1		777.4	3892.9		13.6	673.6
2015	2-Feb-15	12	18	69.7		775.7	3889.3		36.6	696.3
2015	2-Feb-15	13	34.3	87.7		943.2	3929.9		52.1	704.4
2015	2-Feb-15	14	36.8	101.4		820.7	3891.2		56	698.1
2015	2-Feb-15	15	21.9	80.4		733.1	3542.9		75.4	698
2015	2-Feb-15	16	15.1	77.7		743.2	3285.2		64.2	721.7
2015	2-Feb-15	17	34.7	98.2		842.6	3634.6		65.2	770.6
2015	2-Feb-15	18	66.4	141.8		1339.2	3934.7		58.6	879.9
2015	2-Feb-15	19	171.7	224.7		1959.8	3942.2		42.2	899.4
2015	2-Feb-15	20	294.5	393.1		1914.7	3957.1		42.7	894.8
2015	2-Feb-15	21	378.1	334.1		1718.4	3984.4		60.1	869
2015	2-Feb-15	22	269	192.7		1213.3	3746.4		84.3	736.6
2015	2-Feb-15	23	152.7	185.2		760.2	3272		96.6	695.1
2015	3-Feb-15	0	64.7	183.9		718.9	2746.1		96.3	685.3
2015	3-Feb-15	1	55.8	167		723.4	2400		90.9	550.7
2015	3-Feb-15	2	41	119.1		723.5	2392.8		81.5	477.6
2015	3-Feb-15	3	39.2	92.6		718.9	2397.6		74.4	473.1
2015	3-Feb-15	4	43.6	79.9		725.1	2416.2		77.8	470.9
2015	3-Feb-15	5	69.6	105.9		1096.7	2647.6		99.3	476.8
2015	3-Feb-15	6	210	171.7		1906.2	3175		136.3	477.6
2015	3-Feb-15	7	467.5	246.4		1958.2	3740.3		181.9	481.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	3-Feb-15	8	417.1	245.8		2024.1	3971.7		231.6	476.8
2015	3-Feb-15	9	350.1	220.9		2009.8	3774.3		331.3	476.7
2015	3-Feb-15	10	239.3	193.9		1959.9	3397.8		425.7	478.9
2015	3-Feb-15	11	156.3	148.7		1947.2	2963.5		549.5	484
2015	3-Feb-15	12	97.1	132.8		1956	2472		610.6	692.5
2015	3-Feb-15	13	62.3	90.3		1960	2415.7		593	855
2015	3-Feb-15	14	42	77.2		1968	2427.7		534.1	636.4
2015	3-Feb-15	15	40.7	62.2		1982.1	2424.7		534.7	504.2
2015	3-Feb-15	16	46	62.3		1982.8	2434.9		536.8	464.7
2015	3-Feb-15	17	51.5	70		2008.3	2531.7		573.5	603
2015	3-Feb-15	18	72.4	90.5		1846.6	3009.8		568.5	976.2
2015	3-Feb-15	19	66.8	94.4		1572.2	3080.7		550.7	1444.3
2015	3-Feb-15	20	83.1	110.6		1662	3031.8		531.2	653.3
2015	3-Feb-15	21	58.8	88.1		1213.2	3057.9		616.4	549.3
2015	3-Feb-15	22	48.6	66		882.8	2866.5		617.8	664.5
2015	3-Feb-15	23	47.6	62.6		751.8	2614.1		643.7	789.5
2015	4-Feb-15	0	47.6	54.8		764.7	2455.7		521.3	297.97
2015	4-Feb-15	1	42.3	56.9		774.6	2434.6		492.8	53.295
2015	4-Feb-15	2	42.3	55.6		771.9	2439.5		490.5	
2015	4-Feb-15	3	38.6	55.8		775.3	2433.5		492.6	
2015	4-Feb-15	4	43	54.9		775.2	2440.3		497.8	
2015	4-Feb-15	5	40	54.4		780.9	2449.9		638.2	
2015	4-Feb-15	6	48.5	67.8		809.5	2595.9		865.6	
2015	4-Feb-15	7	63.4	98.1		863.8	2952.4		893.2	
2015	4-Feb-15	8	39.3	67.4		771.7	2831.7		925.2	
2015	4-Feb-15	9	29.8	55.5		767.5	2456.6		914.8	
2015	4-Feb-15	10	27.5	56.3		765.6	2369.4		913.1	
2015	4-Feb-15	11	29.5	58.9		766.7	2365		908.2	
2015	4-Feb-15	12	28.6	57.9		771.2	2351.1		906.1	
2015	4-Feb-15	13	34.4	59.3		776.3	2335.5		896.9	
2015	4-Feb-15	14	25.6	53.5		787.9	2362.8		893.8	
2015	4-Feb-15	15	23.1	52.2		796.2	2350.6		916.9	
2015	4-Feb-15	16	24.6	52.1		789.1	2342.1		928.5	
2015	4-Feb-15	17	20	55.1		817.9	2381.5		965.4	
2015	4-Feb-15	18	27	57		851.3	2476.4		835.9	0
2015	4-Feb-15	19	31.6	52.8		783.8	2341.7		697.8	0
2015	4-Feb-15	20	29.7	54.8		787.4	2309.8		667.5	0
2015	4-Feb-15	21	34.3	54.4		784.3	2298.8		602.7	0
2015	4-Feb-15	22	31	51.9		787.2	2281.7		589.8	0
2015	4-Feb-15	23	32.4	62.5		780	2281.4		583.8	0
2015	5-Feb-15	0	23	55.8		778.8	2300.4		599.3	0
2015	5-Feb-15	1	18.6	54		775.5	2281.8		571.6	0
2015	5-Feb-15	2	27.2	53.4		770.4	2279.7		537.7	43.6
2015	5-Feb-15	3	30.9	54.3		769.8	2283.5		551.8	180.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	5-Feb-15	4	27.1	60.5		769.6	2278.1		544.5	117.7
2015	5-Feb-15	5	29.7	70.6		767.5	2288.1		530.2	2.7
2015	5-Feb-15	6	27.1	63.4		768	2400.9		543	42
2015	5-Feb-15	7	26	72.7		766.4	2448.7		523.5	86.3
2015	5-Feb-15	8	12.5	83.5		759.8	2294.1		516.4	141
2015	5-Feb-15	9	5.4	71.6		756.2	2334.9		511.9	198.2
2015	5-Feb-15	10	9.5	74.4		763.5	2632.6		508.6	369.3
2015	5-Feb-15	11	10.8	71.7		753.7	2923.4		505.8	529.4
2015	5-Feb-15	12	16.5	61		753.3	2834.9		505.2	446.4
2015	5-Feb-15	13	21.9	68.8		756.1	2638.5		503.9	502.6
2015	5-Feb-15	14	18.8	75		760.6	2374		512.8	546.7
2015	5-Feb-15	15	28.4	74.7		759.9	2302.9		515.7	722.7
2015	5-Feb-15	16	24.1	80.2		763.1	2309.2		517	721.2
2015	5-Feb-15	17	34.4	87.6		879.8	2524.9		546.9	659.6
2015	5-Feb-15	18	119.3	167.6		1319.7	3028.4		752	793.5
2015	5-Feb-15	19	357.6	372.1		1840.4	3565.1		889.1	874.3
2015	5-Feb-15	20	399	490.4		1886.2	3799.9		744.8	842.7
2015	5-Feb-15	21	368.4	338.6		1593.9	3783		680	800.8
2015	5-Feb-15	22	285.5	411		1083.5	3585.5		536.2	711.4
2015	5-Feb-15	23	223.3	405.1		818.9	3507.6		531.8	656.8
2015	6-Feb-15	0	151.1	264		669.2	3195.5		528.3	651.2
2015	6-Feb-15	1	98.3	191.1		683.7	3078.6		528.6	732.3
2015	6-Feb-15	2	66.3	126.5		688.6	2961.1		513.2	757.9
2015	6-Feb-15	3	51.9	152.5		700	3118.1		514.9	683.2
2015	6-Feb-15	4	131.7	214.5		1126.3	3536.4		502.2	891.7
2015	6-Feb-15	5	272.7	286.1		1903.5	3800.9		503.8	911.1
2015	6-Feb-15	6	436.4	395.2		1949.4	3822.9		765.8	894.9
2015	6-Feb-15	7	432.1	499.1		1954.5	3763.4		946.2	934.7
2015	6-Feb-15	8	327.4	459.1		1988.8	3812.1		933.8	913.7
2015	6-Feb-15	9	311.1	400.8		1653.7	3673.1		794.9	872
2015	6-Feb-15	10	240.1	229.4		1233	3331.1		659.2	790
2015	6-Feb-15	11	203.1	162.4		814.1	3014.6		554.8	618.2
2015	6-Feb-15	12	167.4	139		213.333	2781		518.3	500.3
2015	6-Feb-15	13	155.5	80.8			2471.7		510.9	680
2015	6-Feb-15	14	117.1	64.6			2304		495.3	595.9
2015	6-Feb-15	15	83.6	63			2290.4		492.2	552.6
2015	6-Feb-15	16	79.2	61.7			2295.6		530.2	575.8
2015	6-Feb-15	17	61.5	60.3			2336.1		525.9	140.6
2015	6-Feb-15	18	62.4	61.1			2687.3		501.4	28.956
2015	6-Feb-15	19	56.6	55.9			2611		483.6	
2015	6-Feb-15	20	55.9	55.2			2481		493.8	
2015	6-Feb-15	21	37.5	62.4			2312.5		526.6	
2015	6-Feb-15	22	51.9	62.2			2361		495	
2015	6-Feb-15	23	51.2	67.9			2267		475.8	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	7-Feb-15	0	54.4	60.4			2263.2		59.037	
2015	7-Feb-15	1	56.3	58.7			2254			
2015	7-Feb-15	2	126	59.5			2241.5			
2015	7-Feb-15	3	168.2	60.6			2236.6			
2015	7-Feb-15	4	137	54.5			2228.8			
2015	7-Feb-15	5	124.3	60.2			2242			
2015	7-Feb-15	6	120	60.5			2232.2			
2015	7-Feb-15	7	100.5	78.3			2198.5			
2015	7-Feb-15	8	52.1	82.3			2279.2			
2015	7-Feb-15	9	71.3	72.6			2498.5			
2015	7-Feb-15	10	90.8	68.8			2798.1			
2015	7-Feb-15	11	75.9	70.7			2541.7			
2015	7-Feb-15	12	70	61.9			2219.1			
2015	7-Feb-15	13	39.2	63.7			2192			
2015	7-Feb-15	14	15.7	58.4			2183.2			
2015	7-Feb-15	15	11.4	60.8			2188.3			
2015	7-Feb-15	16	20.1	56.9			2183.9			
2015	7-Feb-15	17	25.9	59.9			2183.6			
2015	7-Feb-15	18	20.3	56			2179.6			
2015	7-Feb-15	19	14.2	61.2			2173.7			
2015	7-Feb-15	20	23	58.5			2156			
2015	7-Feb-15	21	29.8	57.6			2158.5			
2015	7-Feb-15	22	21	57.6			2154.9			
2015	7-Feb-15	23	18	60.8			2150.2			
2015	8-Feb-15	0	18	60.4			2177.3			
2015	8-Feb-15	1	16.5	55.7			2157.1			
2015	8-Feb-15	2	11	58.5			2135.9			
2015	8-Feb-15	3	9.9	60.1			2135.1			
2015	8-Feb-15	4	9.9	58.6			2139.9			
2015	8-Feb-15	5	8.3	58.4			2138.8			
2015	8-Feb-15	6	9.7	61.5			2137.6			
2015	8-Feb-15	7	18.2	71.2			2074.8			
2015	8-Feb-15	8	11	68.5			2123.7			
2015	8-Feb-15	9	11	64.6			2136			
2015	8-Feb-15	10	8.2	65.1			2135.5			
2015	8-Feb-15	11	11	64.1			2135.5			
2015	8-Feb-15	12	9.7	69.4			2145.9			
2015	8-Feb-15	13	11.2	65.4			2132			
2015	8-Feb-15	14	12.5	64.2			2115.5			
2015	8-Feb-15	15	20.7	74.5			2135.8			
2015	8-Feb-15	16	17.8	66.7			2151.7			
2015	8-Feb-15	17	18.2	63.7			2146.6			
2015	8-Feb-15	18	16.6	64.3			2156.3			
2015	8-Feb-15	19	16.7	61.8			2165.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	8-Feb-15	20	16.6	61.9			2163.2			
2015	8-Feb-15	21	16.6	64.4			2167			
2015	8-Feb-15	22	14	65.5			2161.7			
2015	8-Feb-15	23	15.4	66.7			2159.6			
2015	9-Feb-15	0	15.2	65.6			2158.2			
2015	9-Feb-15	1	13.9	69.3			2153.7			
2015	9-Feb-15	2	22.5	66.4			2161.4			
2015	9-Feb-15	3	29.6	70.3			2156.4			
2015	9-Feb-15	4	25	69.8			2144.3			
2015	9-Feb-15	5	21.2	64.1			2143.5			
2015	9-Feb-15	6	18.4	56.2			2194.2			
2015	9-Feb-15	7	44.3	67.3			2140			
2015	9-Feb-15	8	44.6	69.2			2152.8			
2015	9-Feb-15	9	40.9	70			2327.6			
2015	9-Feb-15	10	56.9	99.6			2718.8			
2015	9-Feb-15	11	80.1	151			3094.8			
2015	9-Feb-15	12	113.3	245.5			3174.8			
2015	9-Feb-15	13	159.2	328.3			3214.9			
2015	9-Feb-15	14	139.9	316.2			3076.9			
2015	9-Feb-15	15	107	278			2969.5			
2015	9-Feb-15	16	111.9	241.2			2919			
2015	9-Feb-15	17	149.8	257.1			3005.9			
2015	9-Feb-15	18	250.3	412			3196.1			
2015	9-Feb-15	19	263.5	431			3210.3			
2015	9-Feb-15	20	305.5	448			3369.2			
2015	9-Feb-15	21	250.8	363.2			3133.7			
2015	9-Feb-15	22	185.4	254.6			2678.3			
2015	9-Feb-15	23	184.7	241.4			2260.2			
2015	10-Feb-15	0	133.8	221.7			2157.2			
2015	10-Feb-15	1	137.5	221.9			2146			
2015	10-Feb-15	2	114.3	208.8			2151.7			
2015	10-Feb-15	3	110.6	153.2			2154.8			
2015	10-Feb-15	4	100.1	124.9			2153			
2015	10-Feb-15	5	92.3	104.9			2184.3			
2015	10-Feb-15	6	112.6	121.7			2496.6			
2015	10-Feb-15	7	177	161.5			3015.4			
2015	10-Feb-15	8	186	168.7			3127.5			
2015	10-Feb-15	9	252.8	184.5			3319.1			
2015	10-Feb-15	10	287.1	274.4			3485.2			
2015	10-Feb-15	11	293.6	335.8			3557.5			
2015	10-Feb-15	12	274.1	294			3378.3			
2015	10-Feb-15	13	243.7	264.9			3140.6			
2015	10-Feb-15	14	178.1	175.8			2928.2			
2015	10-Feb-15	15	151.9	156.6			2646.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	10-Feb-15	16	130.6	133.8			2432.3			
2015	10-Feb-15	17	135.7	140.8		0	2284.9			
2015	10-Feb-15	18	159.1	197.6		0	2781.2			
2015	10-Feb-15	19	197.8	253.6		0	3042.3			
2015	10-Feb-15	20	241.1	299.6		0	3201.6			
2015	10-Feb-15	21	284.1	317.1		0	3265.4			
2015	10-Feb-15	22	203	232.1		0	2875.2			
2015	10-Feb-15	23	141.8	156.8		0	2452.2			
2015	11-Feb-15	0	123.8	121.3		0	2214			
2015	11-Feb-15	1	111	119.6		0.2	2199.5			
2015	11-Feb-15	2	104.2	122.6		0	2265.7			
2015	11-Feb-15	3	111.1	100.2		0	2235.8			
2015	11-Feb-15	4	97	102.8		0	2388.8			
2015	11-Feb-15	5	109.5	101.1		0	2517.7			
2015	11-Feb-15	6	117.5	95		0	2785			
2015	11-Feb-15	7	156.9	160		0.8	3040.6			
2015	11-Feb-15	8	114.8	148.2		0	3112.1			
2015	11-Feb-15	9	106.6	164.8		28.6	3143.9			
2015	11-Feb-15	10	98.1	111.9		372.1	3148.6			
2015	11-Feb-15	11	92.6	91.3		890.3	2747.1			
2015	11-Feb-15	12	90.1	66		812.9	2601			
2015	11-Feb-15	13	90.5	66.5		717.3	2275.1			
2015	11-Feb-15	14	75.1	66.7		729.3	2186			
2015	11-Feb-15	15	65.7	67.5		736.3	2173.2			
2015	11-Feb-15	16	63	66		763.8	2240.8			
2015	11-Feb-15	17	61.6	68.1		728.4	2170.3			
2015	11-Feb-15	18	62.5	77.9		725	2272.6			
2015	11-Feb-15	19	65.7	86.2		781.4	2503.6		0	
2015	11-Feb-15	20	63.6	75.4		770.6	2522.7		0	0
2015	11-Feb-15	21	65.4	75.1		739.6	2226.9		0.6	0
2015	11-Feb-15	22	67.3	74		741	2170.2		22.7	0
2015	11-Feb-15	23	69.7	72.5		747.1	2168.6		61	0
2015	12-Feb-15	0	70.8	73.1		750.6	2160.9		25.6	0
2015	12-Feb-15	1	76.7	74.6		753	2160.4		56.8	0
2015	12-Feb-15	2	73.8	74.4		756.1	2162.8		61.8	0
2015	12-Feb-15	3	69.5	67.7		757.7	2152.1		67.7	0
2015	12-Feb-15	4	65.2	67.1		753.7	2152.8		65	0
2015	12-Feb-15	5	64.8	68.3		752.4	2162.5		61.5	0
2015	12-Feb-15	6	65.6	64.9		743.6	2185.9		62.8	0
2015	12-Feb-15	7	71	89.9		721	2268.2		65.7	0
2015	12-Feb-15	8	70.6	78		734.5	2211.3		65.3	43.4
2015	12-Feb-15	9	54.9	52.1		731.6	2221.8		66.1	150
2015	12-Feb-15	10	48.7	58.4		800.1	2344.4		66.6	330.2
2015	12-Feb-15	11	52.4	62.3		724.1	2251		63	555.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Feb-15	12	65.1	87.4		809.2	2622		87.8	622.8
2015	12-Feb-15	13	55.8	85.2		730.8	2621.8		85.7	568.1
2015	12-Feb-15	14	52.8	73.2		746.6	2699.2		93.1	559.2
2015	12-Feb-15	15	52.3	65.2		699.3	2468.2		87.9	554.1
2015	12-Feb-15	16	53.3	80.8		700.7	2228.9		87.3	546.2
2015	12-Feb-15	17	57.8	79.5		737.7	2327.1		116.4	576.3
2015	12-Feb-15	18	91.8	113.1		1094.9	2689.2		118.7	920.2
2015	12-Feb-15	19	138.1	159.6		1691.1	3248.2		167.8	968.2
2015	12-Feb-15	20	146.8	260.9		1853.2	3532		260.2	969.3
2015	12-Feb-15	21	253.6	417.1		1824.3	3620.7		377	972.8
2015	12-Feb-15	22	348.1	552.8		1819.5	3642		581.3	953.5
2015	12-Feb-15	23	444.1	647.9		1848.5	3627.6		848.7	970.5
2015	13-Feb-15	0	563	639.7		1854.5	3636.1		892.3	929.6
2015	13-Feb-15	1	616.4	619.1		1855.2	3646		1022.6	957.8
2015	13-Feb-15	2	635.9	616.6		1842.8	3641		1126.8	955.1
2015	13-Feb-15	3	635.2	567.7		1833.6	3644.8		1093	951.8
2015	13-Feb-15	4	577.6	575.6		1827.7	3673.5		1034.4	944.2
2015	13-Feb-15	5	526.9	613.5		1819	3674.3		949.5	939.7
2015	13-Feb-15	6	515.7	453.2		1820	3650.7		1021.2	935.3
2015	13-Feb-15	7	523.8	553.6		1769.3	3730.5		1041.1	923.5
2015	13-Feb-15	8	529.7	489.3		1819.4	3775		1022.9	910.6
2015	13-Feb-15	9	482.7	524.1		1785.6	3769.9		935.6	805.6
2015	13-Feb-15	10	494.7	527.1		1796.7	3782.8		1034.3	940
2015	13-Feb-15	11	505.2	507.2		1804	3790.7		1054.1	916.7
2015	13-Feb-15	12	502.9	479.2		1828.5	3772		1005.6	881.7
2015	13-Feb-15	13	467.2	479.2		1732.6	3723.7		877.3	746.7
2015	13-Feb-15	14	356.6	455.2		1227.3	3604.9		684.9	739.6
2015	13-Feb-15	15	276.4	291.7		915	3260.3		528.3	695.5
2015	13-Feb-15	16	292.3	299.3		736	3080.3		521.4	647.7
2015	13-Feb-15	17	285.2	364.1		804.2	3156.5		568.2	655.6
2015	13-Feb-15	18	482.3	452.4		1235.3	3600.4		797	781.8
2015	13-Feb-15	19	568.5	475.4		1743.7	3781.3		852.8	819.3
2015	13-Feb-15	20	598.8	452.1		1791.2	3777.6		730	793.5
2015	13-Feb-15	21	588.3	426.5		1522.2	3710.2		615.2	702.1
2015	13-Feb-15	22	595.8	531.7		1499.5	3707		532.4	685.7
2015	13-Feb-15	23	604.5	563.7		1656.7	3683.8		526.9	674.5
2015	14-Feb-15	0	655.5	529.1		1740.7	3711.1		636.5	763.6
2015	14-Feb-15	1	628.7	458.5		1467.8	3630		665.1	753.6
2015	14-Feb-15	2	703.2	594.9		1262.2	3609.3		640	697.6
2015	14-Feb-15	3	728	530.8		825.6	3478		512.7	604.6
2015	14-Feb-15	4	705.5	528		738.9	3373.2		507.6	519.6
2015	14-Feb-15	5	430.4	409.3		743.9	3191.4		518.7	505.9
2015	14-Feb-15	6	284.9	267.3		742.7	3152.5		521.3	510.5
2015	14-Feb-15	7	325.7	313.4		736	3129.1		507.8	508.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	14-Feb-15	8	421.7	519.1		1040.1	3478.6		496.4	707.8
2015	14-Feb-15	9	587.4	606.4		1929.4	3718.3		497.8	875
2015	14-Feb-15	10	651.6	623.9		1928	3766.5		549.4	890.8
2015	14-Feb-15	11	711.1	582.7		1904.4	3753		601.3	849
2015	14-Feb-15	12	694.9	517.5		1337	3586.9		540.4	755.5
2015	14-Feb-15	13	692.5	494.7		787	3384.1		444.3	654.7
2015	14-Feb-15	14	664.2	494.6		754.2	3202.4		450.8	588.2
2015	14-Feb-15	15	561.2	476.1		757.9	3030		438.2	474.4
2015	14-Feb-15	16	446.1	475		799.4	2962.3	0.034	437.4	491.1
2015	14-Feb-15	17	479.2	496.9		888.3	2722	0.097	444.8	484.8
2015	14-Feb-15	18	497.1	568.7		1045.3	3116	0.104	454.8	481.6
2015	14-Feb-15	19	623.3	525.2		1003.2	3326.6	0.104	440.7	498.1
2015	14-Feb-15	20	692.4	527.2		941.9	3437.6	0.104	455.7	510.6
2015	14-Feb-15	21	799.5	512.2		869.9	3425.1	37.148	455.8	518.5
2015	14-Feb-15	22	555.8	397.6	0.074	801.4	3070.1	133.645	470.2	515
2015	14-Feb-15	23	664.5	414.2	0.064	960	3338.4	142.831	485.2	538.9
2015	15-Feb-15	0	672.9	503.9	0.079	1027.6	3510.7	141.631	495.7	546.2
2015	15-Feb-15	1	816.3	539.5	0.077	1324.7	3651.4	143.331	519.4	648.2
2015	15-Feb-15	2	806.9	544.2	0.064	1929.3	3683.9	138.831	635.7	711
2015	15-Feb-15	3	745.6	525.5	0.065	1925.9	3691.6	167.931	876.7	830.6
2015	15-Feb-15	4	811.9	544.5	0.065	1936.1	3677.6	210.8	950.8	831.4
2015	15-Feb-15	5	781.8	618.6	0.078	1973.9	3683.7	222.3	931.1	836.6
2015	15-Feb-15	6	739.3	493.1	0.075	2015	3705.5	511.5	932	825.7
2015	15-Feb-15	7	707.3	536.9	276.924	1974.3	3648.3	630.3	932.6	839.4
2015	15-Feb-15	8	659.9	423.9	519.9	1983.5	3685.8	959.5	752.8	858.6
2015	15-Feb-15	9	541	430.3	755.3	1960.5	3700.7	1661.5	783.9	793.3
2015	15-Feb-15	10	1450.1	1064.7	799.1	1946.3	3689.7	2285.9	942.5	761.8
2015	15-Feb-15	11	1643.9	1161.5	742.8	1940.1	3713.2	1853.1	920.2	760.7
2015	15-Feb-15	12	1649.7	989.7	603.3	1980.2	3710.2	939.2	903.1	836.7
2015	15-Feb-15	13	1527	1090.1	559	2022.4	3703.6	658.4	868.9	808.9
2015	15-Feb-15	14	1666	1051.3	527.3	1859.1	3666.9	628.7	715.7	755.3
2015	15-Feb-15	15	1592	1091.4	530.6	1974.1	3690.8	629.2	716.4	720.1
2015	15-Feb-15	16	1599.8	1125.6	504.7	1877.9	3698.9	626.6	684.6	700
2015	15-Feb-15	17	1573.9	856.4	507.2	1829.8	3719.1	696.4	685.8	714.4
2015	15-Feb-15	18	1703	1095.6	703	2011.2	3776.6	1440.1	874.6	721.1
2015	15-Feb-15	19	1725.8	1058.9	787.5	1994.7	3788.9	2377.1	912	726.3
2015	15-Feb-15	20	1835.7	872.3	755.5	1987.2	3791.2	2370.8	902.8	851.2
2015	15-Feb-15	21	1775.6	989.1	578.4	1973.8	3789	1576.2	905	835.6
2015	15-Feb-15	22	1900.1	1070	571.7	1976.1	3784.5	1481.2	858.9	815.3
2015	15-Feb-15	23	1883.2	1052.4	463.2	1974.9	3774	739.6	660.7	811.6
2015	16-Feb-15	0	1952.8	1059.1	467.9	1955.6	3727.8	673.4	662.9	815.5
2015	16-Feb-15	1	1926.4	1094.6	470.5	1819.2	3716.3	676.4	806.7	796.6
2015	16-Feb-15	2	2064.4	1080.7	465.1	1878.9	3728.7	668.9	897.4	818.1
2015	16-Feb-15	3	1908.1	1115.4	528.1	1927.6	3693.3	724.8	918.4	721.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	16-Feb-15	4	2101.3	1175.5	615.9	1915.9	3694.9	1263.6	690.4	707.6
2015	16-Feb-15	5	1979.2	1172.4	767.6	2013.1	3713.1	2210.3	710	706.4
2015	16-Feb-15	6	1877.1	1142.2	738.5	2030.1	3700.4	2364.5	700.6	724.7
2015	16-Feb-15	7	1893.5	1266.4	767.2	2077.4	3641.9	2356.5	727.2	741.7
2015	16-Feb-15	8	1853.8	1264.1	766.1	2062.9	3715.2	2417.1	732.7	760.4
2015	16-Feb-15	9	1696.1	1181	767	2107.3	3736.3	2427.5	736.1	750.6
2015	16-Feb-15	10	1927	1176.1	757.3	2147.7	3732.3	2421.1	741.8	776.2
2015	16-Feb-15	11	1917.6	1737.9	744.1	2116.8	3732.8	2402.6	713.4	759.8
2015	16-Feb-15	12	2092.2	1888.6	764.1	2166.8	3737.7	2428.3	731.5	787.5
2015	16-Feb-15	13	2005.4	1449	759.3	2157.1	3750.7	2389.3	730	789.2
2015	16-Feb-15	14	1849.6	1381.7	764.9	2108.9	3752.3	2402.2	716.2	784.4
2015	16-Feb-15	15	1685.9	1349	729.5	2091.5	3745	2239.7	710	788.8
2015	16-Feb-15	16	1694.8	1212.7	662.7	2087.9	3723.9	2064.3	705.6	754.1
2015	16-Feb-15	17	1595.7	1130.4	772.6	2077.3	3721.1	2384.7	688	575.1
2015	16-Feb-15	18	1583.1	1117.1	772.3	2075.3	3720.1	2416.3	691.4	595.8
2015	16-Feb-15	19	1648.8	1098.1	624	2055.2	3718.4	2032.9	665.8	757.7
2015	16-Feb-15	20	1736	1106.4	505.7	2051.9	3741.2	1438.3	664.3	750.9
2015	16-Feb-15	21	1702	1152.4	478.7	2053.4	3728.8	1780.6	698.7	860.2
2015	16-Feb-15	22	1702.7	1137.8	471.5	2073.2	3722.8	1238.1	668	873
2015	16-Feb-15	23	1626.8	1134.9	462	2084.9	3727.5	1166.7	655.2	844.4
2015	17-Feb-15	0	1725.1	1231.1	394.6	2069.2	3714.1	492.225	659.5	844.6
2015	17-Feb-15	1	1717.5	1229.5	37.792	2083	3700.7		742.3	831
2015	17-Feb-15	2	1724.9	1229		2100.8	3704.2		898.6	838.9
2015	17-Feb-15	3	1689.5	1208.2		2099.2	3705.7		668.6	808.4
2015	17-Feb-15	4	1718.8	1252.6		2078.4	3698.2		675.2	801.6
2015	17-Feb-15	5	1846.9	1384.7		2064.5	3693.3		696.2	830.5
2015	17-Feb-15	6	1866	1199.8		1945.9	3697.2		725.6	948.7
2015	17-Feb-15	7	1705.7	1214.8		1934	3685.2		700.7	894.4
2015	17-Feb-15	8	1688.8	1346.8		1944.8	3714		682	890.8
2015	17-Feb-15	9	1534	1283.9		1947.7	3705.3		780.6	888.3
2015	17-Feb-15	10	1653.1	1164.7		1949.6	3726.8		710.5	860.6
2015	17-Feb-15	11	1633.1	1112.8		1998.1	3733.8		648	828.9
2015	17-Feb-15	12	1576	1077.1		2060.3	3702.3		604.7	826.7
2015	17-Feb-15	13	1653.6	1099.5		2081.5	3728.5		548.3	869.6
2015	17-Feb-15	14	1675.6	1089.9		2092.9	3743.3		560.3	884.5
2015	17-Feb-15	15	1616.3	1143.7		2106.6	3718.7		564.9	887.6
2015	17-Feb-15	16	1746.1	1177.5		2106.2	3760		591.3	890.1
2015	17-Feb-15	17	1640.2	1177.8		2128.2	3760.5		628.6	845.6
2015	17-Feb-15	18	1640.5	1223.3		2162.6	3742.5		711.3	807
2015	17-Feb-15	19	1755.8	1163.6	0.027	2115.3	3754.7	0.019	951.9	723.8
2015	17-Feb-15	20	1702.2	1174.5	0.074	2174.8	3753.5	93.857	942.1	765.9
2015	17-Feb-15	21	1699	1204.6	0.085	2159	3778.2	123.925	910.9	762.6
2015	17-Feb-15	22	1689.6	1215.9	0.086	2172.3	3675.7	120.425	724.6	679.1
2015	17-Feb-15	23	1679.7	1268.9	0.068	2156.1	3574.1	170.291	610.4	582

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	18-Feb-15	0	1699.2	1282.7	0.056	2139.5	3742	247.166	636.4	636.5
2015	18-Feb-15	1	1651.2	1278.5	0.052	2135	3723.9	346.345	633	659.1
2015	18-Feb-15	2	1666.6	1210.2	0.068	2136.1	3705.7	370.056	778.4	736.9
2015	18-Feb-15	3	1738.3	1287.8	0.072	2122.6	3715.3	515.121	875.9	775.9
2015	18-Feb-15	4	1753.4	1286.9	37.785	2107	3719.7	676.4	958.2	852.1
2015	18-Feb-15	5	1721.6	1278.8	249.336	2085.8	3266.384	795.4	943.5	858
2015	18-Feb-15	6	1737.1	1293.6	311.534	2085.4		1044.7	954.2	869.8
2015	18-Feb-15	7	1765.4	1332.6	517.529	2124.9		2013	947.5	852.8
2015	18-Feb-15	8	1694.3	1351.2	718.6	2173.4	0	2385.1	946.3	818.8
2015	18-Feb-15	9	1483.5	1248.5	712.1	2117.2	295.7	1811.7	863	793
2015	18-Feb-15	10	1618.3	1397.5	550.8	2165.5	426.5	737.1	901.4	827.5
2015	18-Feb-15	11	1767.4	1397.2	445.5	2179.7	419.2	749	897.2	824.5
2015	18-Feb-15	12	1799.5	2200.8	447.1	2170.1	412	707.4	627.1	767.3
2015	18-Feb-15	13	1808.9	2533.3	419.5	2170.6	411.1	433.4	545.3	739.3
2015	18-Feb-15	14	1722.6	1327.4	275.3	2220.1	410.9	759	552.9	623.1
2015	18-Feb-15	15	1739.3	1065.9	237.4	2200.9	410.1	794.2	553.6	587.6
2015	18-Feb-15	16	1684.2	1158.3	234.8	2190.9	420.6	678.4	583.3	692.2
2015	18-Feb-15	17	1665.4	1147.3	234.4	2194.1	417	691.6	824.8	815.4
2015	18-Feb-15	18	1697.9	1151.6	234.2	2213.6	440.5	702.5	982.4	893.2
2015	18-Feb-15	19	1682.1	1104.1	233.8	2210.6	448.8	589.3	981.1	871.1
2015	18-Feb-15	20	1662.9	1096.6	234.2	2205	446.9	580.2	952.9	862.6
2015	18-Feb-15	21	1683.7	1175.1	235.1	2211.4	470.7	590.1	879.6	844.4
2015	18-Feb-15	22	1620.1	1138.2	236.3	2176.3	529.3	573.5	793.8	774.7
2015	18-Feb-15	23	1641.7	1158.9	237.5	2158.1	627.1	582.9	721.4	867.7
2015	19-Feb-15	0	1672.9	1147.8	237.6	2156	724.7	582.8	581.3	1454.3
2015	19-Feb-15	1	1786	1271.6	238.3	2147.9	730.2	582.7	540	1147.5
2015	19-Feb-15	2	1778.7	1356.9	238.4	2170.2	758.7	660.3	540.5	872.9
2015	19-Feb-15	3	1815.5	1365.7	239	2139	754.6	647.9	562.1	697.7
2015	19-Feb-15	4	1768.9	1374.1	463.4	2128.3	836.8	767.4	723.3	722.2
2015	19-Feb-15	5	1817.9	1515.4	759.8	2125.9	845.7	1158.8	984.3	857.8
2015	19-Feb-15	6	1726.5	1271.3	766.4	2135.6	799	1770.2	974.9	912
2015	19-Feb-15	7	1709.9	1288.1	704	2169.4	828.5	2222.1	979.4	906
2015	19-Feb-15	8	1653.6	1261	486.9	2130.4	618.4	1869.7	985.6	910.4
2015	19-Feb-15	9	1582.8	1184.1	535.8	2165.8	531.2	1603.8	814	892.1
2015	19-Feb-15	10	1668.7	1285.2	736.1	2183.2	539.1	2136.3	716	899.7
2015	19-Feb-15	11	1338.9	1264.9	717.3	2091.1	873.6	2276.6	752.8	903.2
2015	19-Feb-15	12	1223	1261.4	578.2	2226.7	1811.1	2134.5	967.8	886.2
2015	19-Feb-15	13	1230.5	1198.6	650.3	2223.8	2290.5	2196.8	965.6	869.5
2015	19-Feb-15	14	1263	1149.4	477.5	2260.2	1849.968	1815.4	940.9	838.9
2015	19-Feb-15	15	1231.8	1141.4	456.3	2289		1365.7	930.2	847.4
2015	19-Feb-15	16	1259.6	1086	456.4	2294.5		1040.8	925.4	857.4
2015	19-Feb-15	17	1252.9	1147.9	478.7	2298.5		825.3	960.8	874.9
2015	19-Feb-15	18	1258.3	1146.8	597.3	2268.1		1317.6	987.8	900.3
2015	19-Feb-15	19	1255.5	1053.3	749.1	2239.9		1819.3	967.4	893.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	19-Feb-15	20	1249.1	1000.4	767.5	2218.4		2191.1	964.7	907.8
2015	19-Feb-15	21	1227.1	1059.8	763.6	2191.5		132.65	969.4	902.6
2015	19-Feb-15	22	1204	1107.3	752.6	2160.4			950.9	896.4
2015	19-Feb-15	23	1215.9	1138.5	757.5	2160.9			951.8	879.4
2015	20-Feb-15	0	1218.3	1159.7	707.3	2234.4			954.2	875.1
2015	20-Feb-15	1	1244	1221.8	609.7	2231.4			959.7	876.4
2015	20-Feb-15	2	1293.4	1285.3	700.2	2235.4			978.6	865.7
2015	20-Feb-15	3	1434.5	1304.5	735.3	2258.8			964.6	867.8
2015	20-Feb-15	4	1522.5	1432.1	665.3	2263			982.7	851.3
2015	20-Feb-15	5	1526.2	1413	721	2275.6			971.5	860.9
2015	20-Feb-15	6	1510	1367	760	2256.9			992.4	860.3
2015	20-Feb-15	7	1471.9	1440.2	763.5	2255.7			970.3	897.7
2015	20-Feb-15	8	1456.9	1490.1	761.1	2281.2			959.5	909.5
2015	20-Feb-15	9	1470.1	1339.4	755.6	2269.6			939.3	863.9
2015	20-Feb-15	10	1556	1409.2	759.5	2318.5			924	845.6
2015	20-Feb-15	11	1688	1492.8	763.7	2301.2			954.5	864.1
2015	20-Feb-15	12	1734.7	1566.3	748.7	2322.4			937.9	849.5
2015	20-Feb-15	13	1714.7	1532.6	717.8	2289.7			893.4	812
2015	20-Feb-15	14	1758.2	1417.3	513.8	2377.7			870.3	819.4
2015	20-Feb-15	15	1782.8	1495	458.8	2341.3			853.4	807.2
2015	20-Feb-15	16	1736.7	1431.1	462.2	2339.3			800.8	796.8
2015	20-Feb-15	17	1716.4	1375.9	500	2345.1			818.9	797.6
2015	20-Feb-15	18	1685.8	1402.7	699.6	2292.8			827.7	811.7
2015	20-Feb-15	19	1651.2	1326.6	698.5	2307.5			845.8	808.7
2015	20-Feb-15	20	1586.1	1318.1	762.3	2211.3			834	799.6
2015	20-Feb-15	21	1539.4	1243.4	744.4	2105.3			838.9	793
2015	20-Feb-15	22	1520.9	1231.4	692.5	2122			491.3	780
2015	20-Feb-15	23	1557.5	1294.6	736.6	2135.7			384.3	785.7
2015	21-Feb-15	0	1660	1382.6	729	2140.5			379.6	779
2015	21-Feb-15	1	1735.3	1412	688.1	2174.5			370.9	795.6
2015	21-Feb-15	2	1733.3	1379.9	695.9	2229.6			376.6	792.7
2015	21-Feb-15	3	1672.9	1334.7	673.4	2206.3			370.3	788.6
2015	21-Feb-15	4	1657	1325.4	725.6	2249.8			378.1	799
2015	21-Feb-15	5	1665.4	1467	705.7	2189.5			400.5	813
2015	21-Feb-15	6	1712	1441.5	754.2	2233.7			402.6	836.4
2015	21-Feb-15	7	1809	1549.7	758.8	2267.7			391.6	869.1
2015	21-Feb-15	8	1796.7	1509.2	700	2296.5			392.9	853.4
2015	21-Feb-15	9	1749.8	1472.3	757.9	2311.4			387.8	844
2015	21-Feb-15	10	1841	1469.2	670.8	2192.5			410.5	849.2
2015	21-Feb-15	11	1825.9	1431.9	736	2362.9			618.1	841.8
2015	21-Feb-15	12	1837.3	1383.3	585.9	2363.9			700.2	842.6
2015	21-Feb-15	13	1863.3	1392.6	0.012	2467.4			718.5	835
2015	21-Feb-15	14	1837.6	1422.8		2481.5			706.8	830.5
2015	21-Feb-15	15	1789.1	1460.9		2484.4			702.8	816.9



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	21-Feb-15	16	1844	1400		2449.7	0		689	791.6
2015	21-Feb-15	17	1869.7	1390.7		2431	0		685.4	791.1
2015	21-Feb-15	18	1887.2	1363.8		2426.6	366.6		645.1	718.9
2015	21-Feb-15	19	1833.5	1220.4		2434.9	483.9		631.2	788.2
2015	21-Feb-15	20	1779.4	1262.4		2439.8	448.3		654.8	787.4
2015	21-Feb-15	21	1803	1243		2446.2	517.3		658.8	794.4
2015	21-Feb-15	22	1856.3	1422.4		2438.9	895		669.6	781.2
2015	21-Feb-15	23	1830.5	1345.1		2073.9	1741.9		611.7	759.1
2015	22-Feb-15	0	1628.6	1227.6		1528.7	2080		496.7	661.2
2015	22-Feb-15	1	1096.5	942.3		1324.4	1582.812		499.5	584.9
2015	22-Feb-15	2	825.7	981.9		1109.3			495.7	572.8
2015	22-Feb-15	3	627.9	620.3		898.7			496.7	579.8
2015	22-Feb-15	4	760.7	758.5		903.4			498.9	583.1
2015	22-Feb-15	5	1076.1	1347.5		1005.6			528.9	499
2015	22-Feb-15	6	1288.9	1074.1		1375.8			507	487.4
2015	22-Feb-15	7	1300.5	1298.8		1359.6			548.6	514.4
2015	22-Feb-15	8	1595	556.7		1459.4			667.2	611.5
2015	22-Feb-15	9	1782.4	167.6		2159.4			629.9	778.7
2015	22-Feb-15	10	1977	232.1		2197.8			613.4	733.1
2015	22-Feb-15	11	1716.4	162.3		1724.7			596.8	627.8
2015	22-Feb-15	12	542.6	159.7		1407.3			484	552.4
2015	22-Feb-15	13	381.2	142.6		1344.7			579.6	542.8
2015	22-Feb-15	14	361.1	134.1		1329.3			573.5	508.2
2015	22-Feb-15	15	619.9	137.7		1285.2			579.2	505.2
2015	22-Feb-15	16	735.7	142.5		1250.9			534	509.1
2015	22-Feb-15	17	730.4	148.9		1263			504.6	535.2
2015	22-Feb-15	18	721.7	220.6		1356.7			619.4	661.7
2015	22-Feb-15	19	715.2	255.4		2074.8			614.2	694.4
2015	22-Feb-15	20	869.3	271.1		2144.8			622.4	753.5
2015	22-Feb-15	21	729.8	291.3	0.024	1876.6		0.012	595.3	683.2
2015	22-Feb-15	22	728	269	0.066	1438.4		0.066	625.1	591.9
2015	22-Feb-15	23	725.3	218.9	0.077	1388.2		336.784	617.2	580.6
2015	23-Feb-15	0	733.5	163.2	0.082	1323.4		335.009	518.5	577.2
2015	23-Feb-15	1	725.1	128.1	52.727	1287.3		115.096	496.2	579.6
2015	23-Feb-15	2	683.7	130.4	133.253	1209.4		273.967	496.3	578.5
2015	23-Feb-15	3	720.9	122.2	133.571	1147.4		493.562	500.2	580.5
2015	23-Feb-15	4	698.4	118.5	134.564	1127.1		430.762	492.5	583.8
2015	23-Feb-15	5	694.2	139.2	150.8	1112.6		457.205	496.7	560.8
2015	23-Feb-15	6	866.2	194.8	221.9	1178.5		448.5	586.7	709.9
2015	23-Feb-15	7	878.7	207.6	299.4	1241.3		459.6	663.3	837.3
2015	23-Feb-15	8	1582.4	267.8	371.1	1440		351	652.5	870.7
2015	23-Feb-15	9	1829.4	511.1	300	1744.1		0.104	674.8	838.4
2015	23-Feb-15	10	1788.9	1235	259.2	1960.4		18.809	660.6	811.9
2015	23-Feb-15	11	1780.7	1526.8	241.1	1988.2		112.982	658.1	791.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Feb-15	12	1755	1438.3	259.5	2026.8		150.252	664	772.5
2015	23-Feb-15	13	1709.1	1395.6	245.1	2020.8		194.331	670.2	770.9
2015	23-Feb-15	14	1749.3	1349.1	245.1	1906.3			637.8	634.7
2015	23-Feb-15	15	1716.8	1232.6	245	2100.3			683.2	701.1
2015	23-Feb-15	16	1727.6	1299.5	244.8	2134.8			676.5	772.3
2015	23-Feb-15	17	1748	1179.1	246.3	2126.2			627.6	750.8
2015	23-Feb-15	18	1805.8	1077.9	247.804	2180.8			620.7	778.2
2015	23-Feb-15	19	1842.8	1168.7	428.9	2275			645.5	761.2
2015	23-Feb-15	20	1869.3	1218	715.3	2283.3			651.5	744.5
2015	23-Feb-15	21	1895.9	1272.5	770.7	2295			638.2	745.1
2015	23-Feb-15	22	1907.6	1233.6	703.7	2299			646.3	740.2
2015	23-Feb-15	23	1922.6	1272.6	612.7	2291.1			628.8	750.7
2015	24-Feb-15	0	1933.5	1337.7	587.4	2285.5		0.016	635.4	739.3
2015	24-Feb-15	1	1800.8	1328.9	589.3	2278.1		0.094	616.6	734.4
2015	24-Feb-15	2	1818.8	1373.9	545.6	2280.1		0.1	619.2	737.7
2015	24-Feb-15	3	1414.7	1306.8	412.6	2293.3			629.6	777.2
2015	24-Feb-15	4	771.8	1398.8	463.9	2278.3		84.525	647.6	754.8
2015	24-Feb-15	5	797.8	1461.4	705.7	2290.6		130	659.4	750.9
2015	24-Feb-15	6	830.9	1448	772.7	2290.6		159.2	702.9	835.8
2015	24-Feb-15	7	827.1	1086	771	2276.1		383.4	741.2	974.1
2015	24-Feb-15	8	832.3	1466.5	772.5	2267.2		565.2	676.8	835.6
2015	24-Feb-15	9	892.5	1709.6	708.4	2269.2		798	624.9	829.7
2015	24-Feb-15	10	908	1585.9	674.1	2295.1		913.1	639.7	841.2
2015	24-Feb-15	11	957.2	1499.3	760.3	2300.3		791.6	639	831.2
2015	24-Feb-15	12	935.1	1444.6	726.2	2305.7		1188	626.1	807.5
2015	24-Feb-15	13	997.3	1553.5	631.2	2297.1		1380.3	623	783.7
2015	24-Feb-15	14	990.7	1491.7	405.4	2310.9		1377.2	640.1	811.2
2015	24-Feb-15	15	982.6	1465.8	244.7	2312.7		1377.4	707.4	797.8
2015	24-Feb-15	16	723.4	1439.2	268.5	2262.8		1298.6	844.5	783.5
2015	24-Feb-15	17	842.6	1475.3	402	2286.1		646.8	857.1	807
2015	24-Feb-15	18	737.4	1510.9	471.2	2292.8		542	870.9	819.8
2015	24-Feb-15	19	708.5	1491	469.4	2294.3		539.5	863.8	813.5
2015	24-Feb-15	20	734.5	1504.9	452.7	2316.9		566.2	787.3	799.6
2015	24-Feb-15	21	740.7	1558.9	457.2	2336.8		1350.9	788.5	741.8
2015	24-Feb-15	22	753.4	1544.2	237	2249.6		2254.3	782.5	755
2015	24-Feb-15	23	755.3	1519.3	232.2	2267.1		2072.7	769.1	754.3
2015	25-Feb-15	0	782.4	1490.1	254.8	2272.5		722	753.8	763.2
2015	25-Feb-15	1	782	1478.1	237.5	2276.4		48.1	775	793.3
2015	25-Feb-15	2	763.9	1456.5	292.5	2263			763.8	774.6
2015	25-Feb-15	3	759.4	1057.9	260.1	2261.5			784.7	780.6
2015	25-Feb-15	4	747.5	736.3	262.1	2265.6			767.7	781.6
2015	25-Feb-15	5	774.1	1011.3	264.7	2276.6			746.6	770.7
2015	25-Feb-15	6	763.9	764.5	312.8	2313.3			770.4	776.9
2015	25-Feb-15	7	764.4	1013.6	344.4	2316			784	822.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	25-Feb-15	8	364	1300.7	346	2300.1			787.7	842.5
2015	25-Feb-15	9	194.3	1461.2	243.2	2331.1			731.2	787.4
2015	25-Feb-15	10	165.6	1499.1	243.3	2325.9			755.4	798.5
2015	25-Feb-15	11	186.7	1443	242.8	2309.3			718.3	760.9
2015	25-Feb-15	12	178.4	1374.3	242.5	2318.4			660.8	743.9
2015	25-Feb-15	13	180.1	1441.3	242.7	2318.8			668	724.3
2015	25-Feb-15	14	177.2	1292.4	241.6	2318.8			562.9	679
2015	25-Feb-15	15	217.9	1297.3	241	2320.6			576.9	636.1
2015	25-Feb-15	16	296.4	1255.9	245.7	2332.4			570.3	634.2
2015	25-Feb-15	17	290.9	1345.7	241	2353.2			640.7	695.1
2015	25-Feb-15	18	294.3	1408	240.3	2372.2		0.009	757.6	771.5
2015	25-Feb-15	19	311.3	887.8	312.4	2332		0.089	755.8	769.6
2015	25-Feb-15	20	384.9	1231.7	273.4	2339.3		0.106	740.1	750.2
2015	25-Feb-15	21	520.1	1489.1	313.8	2319.8		0.094	717.4	741.8
2015	25-Feb-15	22	737.8	1329.5	245.5	2315.8		178.6	713.5	737.5
2015	25-Feb-15	23	720.6	1308.9	250.4	2326.1		294.7	650.6	698.2
2015	26-Feb-15	0	701.1	815.3	251.2	2332.8		305.6	491.2	595.3
2015	26-Feb-15	1	695.3	828.6	251.2	2314.2		267.2	482.3	509.6
2015	26-Feb-15	2	636.1	493.7	250.9	2323.1		298.3	498.1	454.8
2015	26-Feb-15	3	679.2	366.2	250.4	2344.1		286.6	492	458.5
2015	26-Feb-15	4	743.6	290.4	250.6	2331.7		432.7	487.9	452.4
2015	26-Feb-15	5	728.3	284.2	250.1	2323.5		714.7	489.7	453.2
2015	26-Feb-15	6	776.1	361.5	250.9	2293.8		882.9	560.1	548.9
2015	26-Feb-15	7	817.4	762.1	287.1	2317.9		1376.4	659.6	657.6
2015	26-Feb-15	8	805.6	1077.7	257.3	2268.3		1984.5	618.8	636.4
2015	26-Feb-15	9	796.1	940.6	286.5	2250.5		2237.8	765	782.9
2015	26-Feb-15	10	782.4	1010.6	419.9	2236		2524.9	779.5	798.4
2015	26-Feb-15	11	786.6	1120.8	418	2227.2		1886.5	785.9	800
2015	26-Feb-15	12	797.2	1254.4	313.4	2238.4		1424	767.1	779.1
2015	26-Feb-15	13	764.4	1182.5	259.7	2225.3		282.1	706.9	770.5
2015	26-Feb-15	14	787.2	1229.1	256.3	2222		110.4	655.8	716.9
2015	26-Feb-15	15	780.5	1124.8	253.8	2255.9		254.7	724.5	751.8
2015	26-Feb-15	16	746.2	1233	252.7	2245.8		557.5	718.4	758.3
2015	26-Feb-15	17	724.9	1162.7	253	2243.2		1176.9	669.2	710.2
2015	26-Feb-15	18	763.1	1260.5	278.1	2252.9		1270.1	709	755.7
2015	26-Feb-15	19	775.6	1301.7	329.9	2249.9		917.3	715.8	755
2015	26-Feb-15	20	791.4	1078.7	462.3	2247.6		919.3	703.4	748.2
2015	26-Feb-15	21	767.5	1198.8	347.3	2232		920	702	750.1
2015	26-Feb-15	22	733.4	1072.4	276.6	2236		921	673.5	740.6
2015	26-Feb-15	23	739.3	1124.2	247.5	2242		886.5	577.1	669.7
2015	27-Feb-15	0	739.7	761.6	247.5	2248.6		761	475	566
2015	27-Feb-15	1	715.3	788.5	247.7	2241.4		745.2	498.5	468.8
2015	27-Feb-15	2	756	992.3	246	2217.2		743.7	530.1	482.7
2015	27-Feb-15	3	715.1	894.1	251.2	2206.6		740.9	490.8	456

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	27-Feb-15	4	668.9	529.4	245.6	2202.7		737.6	492.4	444.2
2015	27-Feb-15	5	707.1	576.4	244.4	2319.6		739	495.8	456.3
2015	27-Feb-15	6	747.5	756.4	243.8	2372.2		738.8	619.6	592.7
2015	27-Feb-15	7	741.9	1349.6	281.7	2356.8		803.4	730.5	713.4
2015	27-Feb-15	8	754.3	1204.4	240.225	2353.5		1009.6	591.4	665.7
2015	27-Feb-15	9	719.1	1154.6		2423.2		1380.8	457.3	644.8
2015	27-Feb-15	10	747.1	1175.2		2467.4		1615.6	509.5	676.6
2015	27-Feb-15	11	807.2	1228.6		2434.3		1504.8	486.8	653.9
2015	27-Feb-15	12	809.3	1115.4		2418.4		860.8	484.6	633.6
2015	27-Feb-15	13	827.6	935.5		2355.2		769.2	475.5	638.6
2015	27-Feb-15	14	834.9	597.3		1878.9		765.5	468.7	638.4
2015	27-Feb-15	15	816.5	426.6		1671.7		751.6	479.7	627.2
2015	27-Feb-15	16	807.9	375.7		1192.2		748.9	465.1	638.6
2015	27-Feb-15	17	780.7	461.2		1186.5		748	485.5	670.8
2015	27-Feb-15	18	784.5	656.7		1660.7		751	586.4	773.4
2015	27-Feb-15	19	871.1	945.1		2068.6		784.3	735.1	816.1
2015	27-Feb-15	20	854.2	1437.1		2227.7		970.8	741.3	836.4
2015	27-Feb-15	21	773.3	1367.9		2215.7		1185.8	726.4	820.4
2015	27-Feb-15	22	692.2	1500.1		2011.6		1679.4	725.2	798
2015	27-Feb-15	23	837.8	1432.3		1758.1		1523.704	681.7	750.7
2015	28-Feb-15	0	364	658.1		1753.3		206.758	694.2	794.8
2015	28-Feb-15	1	775.2	1365		1443.3			672.1	748.6
2015	28-Feb-15	2	789	1436.5		1741.8			705	749.1
2015	28-Feb-15	3	787.7	1539		1862.3			717.3	750.4
2015	28-Feb-15	4	762.3	1522.1		2074.3			688.9	748.1
2015	28-Feb-15	5	787.8	1438.1		2092.7			702.6	768.9
2015	28-Feb-15	6	797.9	1457.1		2078.3			717.1	765.9
2015	28-Feb-15	7	802.9	1470.7		2026.6			715.2	762.5
2015	28-Feb-15	8	749.8	1383.1		2024.6			715	753.2
2015	28-Feb-15	9	735.1	1351.5		2021			719.1	805.6
2015	28-Feb-15	10	709.3	1504.7		1975.7			725.5	833.9
2015	28-Feb-15	11	754.3	1476.7		1777.9			664.7	679.8
2015	28-Feb-15	12	764.3	1375.5		1735.3			614.6	590.4
2015	28-Feb-15	13	747.1	1314.4		1569.3			555.4	501
2015	28-Feb-15	14	689.1	993.8		1361.6			491.5	447.8
2015	28-Feb-15	15	678.3	612.7		1141.8			511.6	438.6
2015	28-Feb-15	16	651.8	466.8		1112.3			504.1	444.2
2015	28-Feb-15	17	679.7	442.6		1113			530.5	479.5
2015	28-Feb-15	18	732.5	790.2		1522.8			640.4	775.9
2015	28-Feb-15	19	703	1353.8		1844.1			764.5	876.1
2015	28-Feb-15	20	766	1350.5		2019.7			802.2	830.3
2015	28-Feb-15	21	806.3	1354.4		2010.4			808.8	809.3
2015	28-Feb-15	22	776.6	1340.7		1787.3			805.4	804.5
2015	28-Feb-15	23	768.9	1364.8		1648.7			852.8	814.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Mar-15	0	479.8	1319.9		1640.3			836.5	890.2
2015	1-Mar-15	1	167.5	1280.5		1622.3			698.5	978.8
2015	1-Mar-15	2	34.22	1239.9		1326.7			49.3	142.912
2015	1-Mar-15	3		1324.3		1096.3				0
2015	1-Mar-15	4		1157.3		1013.2				29.4
2015	1-Mar-15	5		1494.1		1280.1				98.2
2015	1-Mar-15	6		1156.6		1286.2				208.9
2015	1-Mar-15	7		1111.8		1141.2				280.4
2015	1-Mar-15	8		1492.6		1405.5				249.1
2015	1-Mar-15	9		1592.7		1668.6				605.5
2015	1-Mar-15	10		1498.3		1923.6				107.34
2015	1-Mar-15	11		1399.3		1996.5				
2015	1-Mar-15	12		1436.7		1999.5				
2015	1-Mar-15	13		1505.8		1866.8				
2015	1-Mar-15	14		1429.9		1438.6				
2015	1-Mar-15	15		1485.5		1696.7				
2015	1-Mar-15	16		1371.2		1987.1				
2015	1-Mar-15	17				2029.9				
2015	1-Mar-15	18				1986.9				
2015	1-Mar-15	19				2079.2				
2015	1-Mar-15	20				2055.9				
2015	1-Mar-15	21				2011.4				
2015	1-Mar-15	22				1485.6				
2015	1-Mar-15	23				1134.7				
2015	2-Mar-15	0		0		987.5				
2015	2-Mar-15	1		0		774.9				
2015	2-Mar-15	2		0		773.6				
2015	2-Mar-15	3		1		768.6				
2015	2-Mar-15	4		14.3		763.1				
2015	2-Mar-15	5		127.8		874.3				
2015	2-Mar-15	6		149.5		1385.9				
2015	2-Mar-15	7		137.1		1773				
2015	2-Mar-15	8		244.8		1480.7				
2015	2-Mar-15	9		280.3		1163.3				
2015	2-Mar-15	10		265.9		895.2				
2015	2-Mar-15	11		277.2		759.8				
2015	2-Mar-15	12		280.4		756.4				
2015	2-Mar-15	13		271.6		745.6				
2015	2-Mar-15	14		245		659.5				
2015	2-Mar-15	15		224.3		21.308				
2015	2-Mar-15	16		133.9						
2015	2-Mar-15	17		111.1						
2015	2-Mar-15	18		80.8						
2015	2-Mar-15	19		53.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	2-Mar-15	20		46.3						
2015	2-Mar-15	21		151.2						
2015	2-Mar-15	22		181.6						
2015	2-Mar-15	23		136.9						
2015	3-Mar-15	0		128.5						
2015	3-Mar-15	1		116.1						
2015	3-Mar-15	2		108						
2015	3-Mar-15	3		113.3						
2015	3-Mar-15	4		153.8						
2015	3-Mar-15	5		325.6						
2015	3-Mar-15	6		196.5						
2015	3-Mar-15	7		551.3						
2015	3-Mar-15	8		373.1						
2015	3-Mar-15	9		97.5						
2015	3-Mar-15	10		114.3						
2015	3-Mar-15	11		124.2						
2015	3-Mar-15	12		187.7						
2015	3-Mar-15	13		247.6						
2015	3-Mar-15	14		285.4						
2015	3-Mar-15	15		204.5						
2015	3-Mar-15	16		194						
2015	3-Mar-15	17		170.8						
2015	3-Mar-15	18		155.3		0				
2015	3-Mar-15	19		174.8		0				
2015	3-Mar-15	20		150		0.2				
2015	3-Mar-15	21		127.2		0				
2015	3-Mar-15	22		77.6		0				
2015	3-Mar-15	23		56.9		10.6				
2015	4-Mar-15	0		48		415.2				
2015	4-Mar-15	1		42.5		708.7				
2015	4-Mar-15	2		38		709.7				
2015	4-Mar-15	3		37.5		780.3				
2015	4-Mar-15	4		38.2		838.5				
2015	4-Mar-15	5		37.4		849.3				
2015	4-Mar-15	6		41		877.2				
2015	4-Mar-15	7		152.1		1007.6				
2015	4-Mar-15	8		212		1060.5				
2015	4-Mar-15	9		28.4		948.4				
2015	4-Mar-15	10		20		864.8				0
2015	4-Mar-15	11		21.4		875.7	0			0
2015	4-Mar-15	12		19.7		892.2	0		0	0
2015	4-Mar-15	13		21.2		891.1	20.5		0	0
2015	4-Mar-15	14		21		907.4	409.7		0	0
2015	4-Mar-15	15		20.8		903.4	511		9.5	2.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	4-Mar-15	16	0	22.4		885.3	248.105		39.4	9.5
2015	4-Mar-15	17	0	24.1		892.1	31.65		53.8	13.5
2015	4-Mar-15	18	0	31.7		1078.3	405		43.2	2.8
2015	4-Mar-15	19	0	38.2		1309.2	331.8		45.2	4.7
2015	4-Mar-15	20	0	49.9		1149.3	356.9		47.7	0.3
2015	4-Mar-15	21	0	45.5		997.3	326.8		49.1	0
2015	4-Mar-15	22	0	45.1		855	332.6		49.2	39.9
2015	4-Mar-15	23	0	36.6		860.9	375.1		49.5	100.4
2015	5-Mar-15	0	0	30.6		863	629.8		75.6	179.5
2015	5-Mar-15	1	0	28.9		849	1402		93.6	269.4
2015	5-Mar-15	2	10.4	22.7		835.7	2061.6		94.6	399.2
2015	5-Mar-15	3	17.2	23		825.8	2307		95.6	476.9
2015	5-Mar-15	4	33.5	24.6		820.1	2292.1		123.1	538.9
2015	5-Mar-15	5	73.7	94.2		808.5	2243.9		138.6	532.8
2015	5-Mar-15	6	188.8	93.5		802.8	2298.1		162.2	525.5
2015	5-Mar-15	7	324.6	229.6		858.2	2788		271.6	524.8
2015	5-Mar-15	8	457.3	187.7		1347.4	3262.8		266.9	693.9
2015	5-Mar-15	9	464.1	29.2		2059.8	3636.2		346.1	796.2
2015	5-Mar-15	10	65.1	31.8		2110	3761.6		408.1	824.3
2015	5-Mar-15	11	148.1	48.7		2130.5	3689.4		494.2	841.5
2015	5-Mar-15	12	260.2	68.6		2135	3730.9		752.1	855.5
2015	5-Mar-15	13	361.8	97.3		2150.4	3758.5		782.1	826.7
2015	5-Mar-15	14	409.4	130		2144.7	3709.2		747.7	789.8
2015	5-Mar-15	15	482.8	157.1		2123.6	3692.6		658.1	761.3
2015	5-Mar-15	16	569.7	170.5		2131.5	3703.5		789.1	808.7
2015	5-Mar-15	17	568.8	154		2038	3708.2		811.4	777.8
2015	5-Mar-15	18	609.5	146.4		2107.7	3687.7		910.4	823.8
2015	5-Mar-15	19	581.8	141		2101.5	3690.9		922.8	825.8
2015	5-Mar-15	20	605.3	145.1		2090.9	3719.5		878.5	818.1
2015	5-Mar-15	21	680.3	134.1		2104.6	3724.3		880.4	821.5
2015	5-Mar-15	22	724	151.7		2086.7	3467.9		869	810.4
2015	5-Mar-15	23	714	154.2		2087.8	3132.4		851.2	792.4
2015	6-Mar-15	0	802.5	151.1		2056.2	3367		856.1	797.2
2015	6-Mar-15	1	645.7	168.6		2108.2	3612.4		651.8	809.1
2015	6-Mar-15	2	601	172.6		2107.4	3661.4		759.1	750.3
2015	6-Mar-15	3	742.9	187.4		2008.4	3664.2		884.6	750.3
2015	6-Mar-15	4	814.3	197.1		1992.6	3641.1		901.8	788.7
2015	6-Mar-15	5	804.1	196		1986.5	3582.7		900.2	783.8
2015	6-Mar-15	6	810.5	218.6		2046.8	3618.5		908.6	836.6
2015	6-Mar-15	7	814.7	915.7		2122.8	3562.8		878.4	842.3
2015	6-Mar-15	8	827.4	726.5		2193.1	3587.3		885.8	829.8
2015	6-Mar-15	9	832.6	720.1		2190.8	3608.9		891.4	834.8
2015	6-Mar-15	10	898.1	603.1		2185.8	3634		873.5	849
2015	6-Mar-15	11	820	561.3		2209.5	3599		936.7	853.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	6-Mar-15	12	756.8	561.4		2182.5	3579		904	862.2
2015	6-Mar-15	13	645.5	578.1		2164.7	3579.9		893.1	880.6
2015	6-Mar-15	14	737.8	559.9		2221.3	3622.4		909.4	878.4
2015	6-Mar-15	15	714.6	540.5		2225.4	3611.5		915.9	734.9
2015	6-Mar-15	16	695.2	497.6		2171.7	3608.7		911.1	736.6
2015	6-Mar-15	17	632.8	463.8		1980.8	3581.1		788.9	761.4
2015	6-Mar-15	18	647.8	480.2		2202.9	3620.9		909	777.7
2015	6-Mar-15	19	611.1	469.8		2192.4	3627.4		969.6	827.2
2015	6-Mar-15	20	632.7	502.7		2202	3593		1039.2	978.3
2015	6-Mar-15	21	623.1	473		2179.5	3579.7		1090.1	1004.4
2015	6-Mar-15	22	604.2	497.6		2178.6	3562.3		1098.9	1032.3
2015	6-Mar-15	23	581.8	472		2180	3530.1		986.9	1031.6
2015	7-Mar-15	0	614.6	480		2187	3494.9		813.7	920.8
2015	7-Mar-15	1	572.8	472.8		2186.2	3554		971.4	981.1
2015	7-Mar-15	2	614.1	458.8		2191.7	3535.3		1067.1	991.3
2015	7-Mar-15	3	564.7	462.9		2186.5	3531.7		1187.8	1040.6
2015	7-Mar-15	4	551	469.9		2203.6	3545.6		1137.1	1077.1
2015	7-Mar-15	5	577.8	461.4		2199.5	3539		1086.9	1102.3
2015	7-Mar-15	6	539.8	465.7		2177	3541.4		1142.3	1116.9
2015	7-Mar-15	7	619.8	454.4		2140.8	3538.9		1178	1084.7
2015	7-Mar-15	8	582.9	468.4		2198.6	3661		1056.6	1091.5
2015	7-Mar-15	9	559.6	472.6		2040.9	3525		805.6	889.6
2015	7-Mar-15	10	580.3	468		1895.1	3515.5		794.6	848.2
2015	7-Mar-15	11	472.1	375.5		1623.4	3138.5		673.4	795.5
2015	7-Mar-15	12	417.4	320.1		1086.8	2674.3		578.2	647.7
2015	7-Mar-15	13	313.4	231.8		868.8	2296.5		447	252.9
2015	7-Mar-15	14	288.2	164		879.6	2179.1		126.675	9.636
2015	7-Mar-15	15	285.7	134.9		881	2170			
2015	7-Mar-15	16	293.2	92.2		885.7	2155.9			
2015	7-Mar-15	17	275.7	73.7		880	2145.5			
2015	7-Mar-15	18	308.4	69.5		879.8	2225.8			
2015	7-Mar-15	19	293.4	57.4		850.5	2217.6			
2015	7-Mar-15	20	315.6	59.6		874.9	2277.9			
2015	7-Mar-15	21	296.7	83.7		846.7	2144.5			
2015	7-Mar-15	22	300.7	56		852.5	2125.9			
2015	7-Mar-15	23	274.8	48.8		854.3	2140.3			
2015	8-Mar-15	0	258.5	33.8		861.8	2128.1			
2015	8-Mar-15	1	177.7	29.1		857.6	2123.3			
2015	8-Mar-15	2	156.8	28.2		862.8	2108.5			
2015	8-Mar-15	3	144.7	29.5		862.4	2112			
2015	8-Mar-15	4	139.3	32.1		866.1	2096.7			
2015	8-Mar-15	5	132.6	32.1		872.3	2104.3			
2015	8-Mar-15	6	131.4	34.6		872.1	2103			
2015	8-Mar-15	7	126.8	35.9		845.6	2060.4			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	8-Mar-15	8	131.3	33.5		874.5	2087			
2015	8-Mar-15	9	119.2	36		886.5	2094			
2015	8-Mar-15	10	113.2	39.8		867.2	2096.6			
2015	8-Mar-15	11	126.9	40		869.7	2107.8			
2015	8-Mar-15	12	126.9	32.3		875.8	2128.3			
2015	8-Mar-15	13	126.5	33.4		871.7	2122.2			
2015	8-Mar-15	14	124.8	30.4		875.4	2132.8			
2015	8-Mar-15	15	126.4	51.2		864.5	2159.4			
2015	8-Mar-15	16	128.3	39.6		855.3	2168.9			
2015	8-Mar-15	17	127.8	39.6		846.2	2159			
2015	8-Mar-15	18	149.1	45.5		922	2243.1			
2015	8-Mar-15	19	200.8	67.8		883.9	2517.5			
2015	8-Mar-15	20	155.7	81.2		831	2668.1			
2015	8-Mar-15	21	138.4	57.2		838.2	2300			
2015	8-Mar-15	22	129.7	43.8		833.9	2179.9			
2015	8-Mar-15	23	126.6	43		839.6	2175.9			
2015	9-Mar-15	0	120.8	42		836.3	2165.9			
2015	9-Mar-15	1	122	42.1		836.8	2150.8			
2015	9-Mar-15	2	120.4	42.3		842	2148.3			
2015	9-Mar-15	3	120.6	40.7		832.1	2162.6			
2015	9-Mar-15	4	114.4	39.6		842.2	2161.8			
2015	9-Mar-15	5	133.4	44.9		892.4	2291.7			
2015	9-Mar-15	6	104.4	52.7		975.5	2609.4			
2015	9-Mar-15	7	112.6	60.8		909.1	2695.3			
2015	9-Mar-15	8	104.4	57.3		817	2982.1			
2015	9-Mar-15	9	96.1	72.2		828.6	2773.4			
2015	9-Mar-15	10	97.1	70.1		825.9	2461			
2015	9-Mar-15	11	88.9	38.5		921.9	2179.1			
2015	9-Mar-15	12	87.7	24.6		1092.9	2165.7			
2015	9-Mar-15	13	114.6	13.7		1119	2150.5			
2015	9-Mar-15	14	115.2	15.1		1120.3	2125.1			
2015	9-Mar-15	15	111.5	11.1		819.4	2112			
2015	9-Mar-15	16	117.8	11.1		14.8	2124.7			
2015	9-Mar-15	17	116.3	11.1		0	2121.1			
2015	9-Mar-15	18	120.6	15.4		0	2384			
2015	9-Mar-15	19	118.9	13.9		0	2770.9			
2015	9-Mar-15	20	117.5	16.3		0	2768.9			
2015	9-Mar-15	21	120.8	10.9		0	2744			
2015	9-Mar-15	22	119.1	15		0	2741.4			
2015	9-Mar-15	23	120.5	12.3		0	2733.4			
2015	10-Mar-15	0	121.4	15		0	2233.5			
2015	10-Mar-15	1	126.2	54.9		0	1661.9			
2015	10-Mar-15	2	123.9	156.4		0	212.205			
2015	10-Mar-15	3	134.9	200.7		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	10-Mar-15	4	124.8	751.1		0				
2015	10-Mar-15	5	149.7	798.4		0				
2015	10-Mar-15	6	133.5	740.9		0				
2015	10-Mar-15	7	134.7	582.6		0				
2015	10-Mar-15	8	136.5	568		0				
2015	10-Mar-15	9	129.7	566						
2015	10-Mar-15	10	132.8	609.1						
2015	10-Mar-15	11	125.3	427.7						
2015	10-Mar-15	12	127.4	333.3						
2015	10-Mar-15	13	123.7	251.3						
2015	10-Mar-15	14	118.4	147.3						
2015	10-Mar-15	15	115.5	75.5						
2015	10-Mar-15	16	123.9	56						
2015	10-Mar-15	17	118.2	37.4						
2015	10-Mar-15	18	130.1	32.7						
2015	10-Mar-15	19	117.8	33.4						
2015	10-Mar-15	20	117.3	30.4						
2015	10-Mar-15	21	119.1	29.1						
2015	10-Mar-15	22	114.5	26.2						
2015	10-Mar-15	23	122.1	26.7						
2015	11-Mar-15	0	126.3	26						
2015	11-Mar-15	1	133	26						
2015	11-Mar-15	2	127.1	24.8						
2015	11-Mar-15	3	131.5	25.9						
2015	11-Mar-15	4	137.3	29.2						
2015	11-Mar-15	5	215.4	117.2						
2015	11-Mar-15	6	301.8	198.1						
2015	11-Mar-15	7	253.8	220.7						
2015	11-Mar-15	8	160.5	182.9						
2015	11-Mar-15	9	199.1	263.7						
2015	11-Mar-15	10	271.6	220.7						
2015	11-Mar-15	11	299.7	276.5						
2015	11-Mar-15	12	298.2	202.5						
2015	11-Mar-15	13	271.8	181.6						
2015	11-Mar-15	14	203.9	82.4						
2015	11-Mar-15	15	166.5	71						
2015	11-Mar-15	16	164	42.9						
2015	11-Mar-15	17	243	131						
2015	11-Mar-15	18	284.8	115.1						
2015	11-Mar-15	19	331	226.2						
2015	11-Mar-15	20	243.7	132.8						
2015	11-Mar-15	21	132.2	80.1						
2015	11-Mar-15	22	103.4	42.7						
2015	11-Mar-15	23	100.8	45.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Mar-15	0	100.1	32						
2015	12-Mar-15	1	98.5	39.7						
2015	12-Mar-15	2	122.7	23.8						
2015	12-Mar-15	3	233.2	31.6						
2015	12-Mar-15	4	330.1	27.9						
2015	12-Mar-15	5	570.3	168.9						
2015	12-Mar-15	6	898.8	439.3						
2015	12-Mar-15	7	915.6	560.6						
2015	12-Mar-15	8	870.3	137.4						
2015	12-Mar-15	9	875.7	224.6						
2015	12-Mar-15	10	791.3	55						
2015	12-Mar-15	11	540.3	53.1						
2015	12-Mar-15	12	473.5	25.3						
2015	12-Mar-15	13	525.1	22.5						
2015	12-Mar-15	14	501.9	8						
2015	12-Mar-15	15	495.6	9.4						
2015	12-Mar-15	16	503.9	7.2						
2015	12-Mar-15	17	491.3	20.5						
2015	12-Mar-15	18	450.2	12.8						
2015	12-Mar-15	19	416.1	61.1						
2015	12-Mar-15	20	361.4	29.8						
2015	12-Mar-15	21	302.4	23.9						
2015	12-Mar-15	22	219.3	11						
2015	12-Mar-15	23	169.8	15.6						
2015	13-Mar-15	0	141.4	6.5						
2015	13-Mar-15	1	148.5	14.2						
2015	13-Mar-15	2	137.4	5.2						
2015	13-Mar-15	3	140.3	13.1						
2015	13-Mar-15	4	140.1	5.3						
2015	13-Mar-15	5	213.2	85.4						
2015	13-Mar-15	6	340.5	352.8						
2015	13-Mar-15	7	544.5	594.3						
2015	13-Mar-15	8	599.3	431.9						
2015	13-Mar-15	9	602.5	602.8						
2015	13-Mar-15	10	456.5	320.3						
2015	13-Mar-15	11	350.3	191.5						
2015	13-Mar-15	12	262.9	116						
2015	13-Mar-15	13	198.9	81.1						
2015	13-Mar-15	14	171.4	50.6						
2015	13-Mar-15	15	172.7	49.8						
2015	13-Mar-15	16	176.6	31.4						
2015	13-Mar-15	17	205.2	72.3						
2015	13-Mar-15	18	285.3	44.8						
2015	13-Mar-15	19	310.1	103.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	13-Mar-15	20	281.2	46.4						
2015	13-Mar-15	21	192.7	72.4						
2015	13-Mar-15	22	159.9	37.8						
2015	13-Mar-15	23	168.8	32.6						
2015	14-Mar-15	0	159.5	29.5						
2015	14-Mar-15	1	162.6	28.3						
2015	14-Mar-15	2	160.4	17.5						
2015	14-Mar-15	3	169.4	24.2						
2015	14-Mar-15	4	167.6	14.8						
2015	14-Mar-15	5	151.9	17.6						
2015	14-Mar-15	6	119.8	30.1						
2015	14-Mar-15	7	109	24.5						
2015	14-Mar-15	8	97.6	15						
2015	14-Mar-15	9	105.7	14.8						
2015	14-Mar-15	10	98.2	11						
2015	14-Mar-15	11	100.5	25.5						
2015	14-Mar-15	12	96.4	13.1						
2015	14-Mar-15	13	98.9	17.1						
2015	14-Mar-15	14	95.3	13.4						
2015	14-Mar-15	15	95.6	14.5						
2015	14-Mar-15	16	93.2	9.2						
2015	14-Mar-15	17	99.3	10.9						
2015	14-Mar-15	18	94.8	9.6						
2015	14-Mar-15	19	98.9	10.8						
2015	14-Mar-15	20	93.2	9.6						
2015	14-Mar-15	21	97	9.6						
2015	14-Mar-15	22	94.4	8.5						
2015	14-Mar-15	23	127	10.9						
2015	15-Mar-15	0	157.6	8.5						
2015	15-Mar-15	1	163.1	10.9						
2015	15-Mar-15	2	158	7.7						
2015	15-Mar-15	3	163.9	10.5						
2015	15-Mar-15	4	156.4	7.9						
2015	15-Mar-15	5	161.3	17						
2015	15-Mar-15	6	166.7	23.5						
2015	15-Mar-15	7	164.3	19.8	0.066					
2015	15-Mar-15	8	153.3	13.3	0.068					
2015	15-Mar-15	9	145.7	19.9	0.084					
2015	15-Mar-15	10	147.6	11.9	0.092					
2015	15-Mar-15	11	152.5	17.3	0.092					
2015	15-Mar-15	12	159.5	9.3	0.068					
2015	15-Mar-15	13	163.7	13.2	0.077					
2015	15-Mar-15	14	156.6	9.3	0.069					
2015	15-Mar-15	15	161.3	13.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	15-Mar-15	16	158.3	8						
2015	15-Mar-15	17	163.7	10.1						
2015	15-Mar-15	18	167.7	8.7						
2015	15-Mar-15	19	168.2	10.4						
2015	15-Mar-15	20	162.5	7.6						
2015	15-Mar-15	21	169.2	8.8						
2015	15-Mar-15	22	167.7	7.6						
2015	15-Mar-15	23	150.4	8.8						
2015	16-Mar-15	0	102.9	7.6						
2015	16-Mar-15	1	99.3	8.9						
2015	16-Mar-15	2	98.7	7.7						
2015	16-Mar-15	3	101.2	10.2						
2015	16-Mar-15	4	99.5	7.6						
2015	16-Mar-15	5	123.4	10.1						
2015	16-Mar-15	6	240.6	35.8						
2015	16-Mar-15	7	315.4	43.6	0.029					
2015	16-Mar-15	8	355.1	27.8	0.067					
2015	16-Mar-15	9	425	164.2	0.067					
2015	16-Mar-15	10	406.8	84.9	0.067					
2015	16-Mar-15	11	373.1	205.5	0.067					
2015	16-Mar-15	12	247.5	67.9	0.086					
2015	16-Mar-15	13	197.4	88.4	0.093					
2015	16-Mar-15	14	155.4	35.8						
2015	16-Mar-15	15	158	37.4						
2015	16-Mar-15	16	149.4	17.7						
2015	16-Mar-15	17	154.3	19.1						
2015	16-Mar-15	18	245.9	12.2						
2015	16-Mar-15	19	245.1	30						
2015	16-Mar-15	20	177.4	12.1						
2015	16-Mar-15	21	144.9	23.9						
2015	16-Mar-15	22	112.4	12						
2015	16-Mar-15	23	116.8	19.9						
2015	17-Mar-15	0	117	10.5						
2015	17-Mar-15	1	113.4	18.4						
2015	17-Mar-15	2	111.4	10.6						
2015	17-Mar-15	3	114.2	18.4						
2015	17-Mar-15	4	109.7	9.2						
2015	17-Mar-15	5	115.9	29						
2015	17-Mar-15	6	115.8	26.2						
2015	17-Mar-15	7	108.5	16.6						
2015	17-Mar-15	8	87.9	12						
2015	17-Mar-15	9	77.5	13.4						
2015	17-Mar-15	10	84.2	11.1						
2015	17-Mar-15	11	78.9	11						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	17-Mar-15	12	83.4	9.9						
2015	17-Mar-15	13	73.8	11.5						
2015	17-Mar-15	14	80.4	8.9						
2015	17-Mar-15	15	75.4	10.1						
2015	17-Mar-15	16	79.3	8.9						
2015	17-Mar-15	17	69	11.8						
2015	17-Mar-15	18	77.2	9.3						
2015	17-Mar-15	19	98.8	15.4						
2015	17-Mar-15	20	115.3	10.1						
2015	17-Mar-15	21	86.8	20.6						
2015	17-Mar-15	22	80.5	10.4						
2015	17-Mar-15	23	85.7	16.8						
2015	18-Mar-15	0	83.4	9.1						
2015	18-Mar-15	1	94.3	15.7						
2015	18-Mar-15	2	96	7.8						
2015	18-Mar-15	3	98	14.4						
2015	18-Mar-15	4	91.6	7.9						
2015	18-Mar-15	5	107	14.3						
2015	18-Mar-15	6	199	40.9						
2015	18-Mar-15	7	267.1	50.8						
2015	18-Mar-15	8	341.7	23.8						
2015	18-Mar-15	9	291.7	117.7						
2015	18-Mar-15	10	211.6	33.2						
2015	18-Mar-15	11	179.2	54.9						
2015	18-Mar-15	12	155.5	23.4		0				
2015	18-Mar-15	13	156.8	34.6		0				
2015	18-Mar-15	14	147.5	15.5		0				
2015	18-Mar-15	15	147.8	18.2		0				
2015	18-Mar-15	16	110.7	11.4		0				
2015	18-Mar-15	17	102.6	13.7		0				
2015	18-Mar-15	18	117.3	10.5		0				
2015	18-Mar-15	19	130.6	36.3		0				
2015	18-Mar-15	20	119.4	13.6		0				
2015	18-Mar-15	21	106.4	25.5		0				
2015	18-Mar-15	22	105.6	13.9		0				
2015	18-Mar-15	23	107	16.2		0				
2015	19-Mar-15	0	104.8	9.9		0				
2015	19-Mar-15	1	111.7	18		0				
2015	19-Mar-15	2	105.4	9.4		67.5				
2015	19-Mar-15	3	108.3	19.9		548.1				
2015	19-Mar-15	4	103.7	11.7		776.9				
2015	19-Mar-15	5	114.4	31.6		797.4				
2015	19-Mar-15	6	201.1	44.2		830.4				
2015	19-Mar-15	7	198.4	31.8		851.8				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	19-Mar-15	8	131.1	13.9		822.4				
2015	19-Mar-15	9	92.8	20.6		832.2				
2015	19-Mar-15	10	59.9	13.1		860.3				
2015	19-Mar-15	11	69.4	11.3		870.3				
2015	19-Mar-15	12	64.2	7.8		880.3				
2015	19-Mar-15	13	55.8	7.7		883.1				
2015	19-Mar-15	14	57.1	6.6		878.7				
2015	19-Mar-15	15	70.3	9.4		886				
2015	19-Mar-15	16	84.4	6.8		881				
2015	19-Mar-15	17	92.4	12.5		878				
2015	19-Mar-15	18	100.3	8.5		876.1				
2015	19-Mar-15	19	95.5	19.5		883.6				
2015	19-Mar-15	20	90.2	8.1		881.1				
2015	19-Mar-15	21	92.1	14.9		902.7				
2015	19-Mar-15	22	101.1	9.5		940				
2015	19-Mar-15	23	100.2	12.2		901.4				
2015	20-Mar-15	0	100.2	8.3		880.6				
2015	20-Mar-15	1	102.1	16.6		886.6				
2015	20-Mar-15	2	103.8	9.1		871.8				
2015	20-Mar-15	3	108.4	12.3		851.2				
2015	20-Mar-15	4	104	8.1		840.2				
2015	20-Mar-15	5	129.8	25.2		830.7				
2015	20-Mar-15	6	180.7	57.8		818.4				
2015	20-Mar-15	7	186.8	56.7		855.7				
2015	20-Mar-15	8	212.1	34.9		859.8				
2015	20-Mar-15	9	307.2	166.4		926.3				
2015	20-Mar-15	10	365.6	90.7		879.6				
2015	20-Mar-15	11	453	387.4		946.5				
2015	20-Mar-15	12	513.4	215.7		873.6				
2015	20-Mar-15	13	563.2	412.5		756				
2015	20-Mar-15	14	470.1	72.9		744.4				
2015	20-Mar-15	15	425	256.4		745.2				
2015	20-Mar-15	16	433.2	46.4		790.8				
2015	20-Mar-15	17	323.1	265.5		746.4				
2015	20-Mar-15	18	246.1	119.6		753.5				
2015	20-Mar-15	19	211.3	193.2		757.2				
2015	20-Mar-15	20	178.5	32.2		775.2				
2015	20-Mar-15	21	154.3	125		774				
2015	20-Mar-15	22	123.5	57.7		804.4				
2015	20-Mar-15	23	116.6	94.9		329.238				
2015	21-Mar-15	0	112.6	39.7						
2015	21-Mar-15	1	116.1	68.6						
2015	21-Mar-15	2	108.4	44.6						
2015	21-Mar-15	3	116.5	67.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	21-Mar-15	4	114.3	39.1						
2015	21-Mar-15	5	118.4	66.5						
2015	21-Mar-15	6	131.2	88.5						
2015	21-Mar-15	7	110.9	69.6						
2015	21-Mar-15	8	105.7	29.7						
2015	21-Mar-15	9	129.9	115.4						
2015	21-Mar-15	10	134.4	92.9						
2015	21-Mar-15	11	152.1	111.5						
2015	21-Mar-15	12	116.9	97.5						
2015	21-Mar-15	13	108.5	105.4						
2015	21-Mar-15	14	106.8	40						
2015	21-Mar-15	15	113.1	56.9						
2015	21-Mar-15	16	109	39.1						
2015	21-Mar-15	17	105.6	49.4						
2015	21-Mar-15	18	102	51.2						
2015	21-Mar-15	19	110.5	44.2						
2015	21-Mar-15	20	106.2	41.1						
2015	21-Mar-15	21	112.1	26.5						
2015	21-Mar-15	22	108.9	25.4						
2015	21-Mar-15	23	109.4	23.3						
2015	22-Mar-15	0	109.8	22.7						
2015	22-Mar-15	1	112.2	19.1						
2015	22-Mar-15	2	105.7	17.2						
2015	22-Mar-15	3	110.1	20						0
2015	22-Mar-15	4	107.2	17.1						0.4
2015	22-Mar-15	5	111.3	18.8						0
2015	22-Mar-15	6	105.4	31.8						0
2015	22-Mar-15	7	74.9	23.3						3.8
2015	22-Mar-15	8	66.6	15.1						0
2015	22-Mar-15	9	73.8	13.7						0
2015	22-Mar-15	10	77.7	12.4					0	0
2015	22-Mar-15	11	85.3	13.6					0.2	0
2015	22-Mar-15	12	89.1	12.5					6.6	0
2015	22-Mar-15	13	89.4	13.6					41	0
2015	22-Mar-15	14	92.2	12.4					70.7	0
2015	22-Mar-15	15	88.2	13.7					99.2	0
2015	22-Mar-15	16	92.7	12.5					121.1	1.1
2015	22-Mar-15	17	86.9	13.8		0			117.5	4.3
2015	22-Mar-15	18	96.4	13.9		0			136.8	102.3
2015	22-Mar-15	19	122.5	23.2		0			130	247.6
2015	22-Mar-15	20	117.9	17		0			131.1	517.3
2015	22-Mar-15	21	96.6	21.8		0			152.9	713.6
2015	22-Mar-15	22	94.1	16.3		0			159.1	659.2
2015	22-Mar-15	23	99	19.7		0			128.3	738.1



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Mar-15	0	104.6	14.9		0			123.1	710.2
2015	23-Mar-15	1	112	19.6		0			111.5	713.7
2015	23-Mar-15	2	108.3	15.9		316.3			99.9	742.5
2015	23-Mar-15	3	115.4	21		711.9			142.2	720.8
2015	23-Mar-15	4	129.8	17.8		733.3			125.3	732
2015	23-Mar-15	5	316.6	88.5		1283.5			78.5	877.3
2015	23-Mar-15	6	757.6	311.9		2081.1			121.3	1190.6
2015	23-Mar-15	7	814.8	569.8		2238.5			93.2	1206.6
2015	23-Mar-15	8	470.7	266.4		2271.5			140.4	1274.7
2015	23-Mar-15	9	433.3	414.3		1978.4			114.8	1096.2
2015	23-Mar-15	10	446.1	187.6		1562.5			240.5	850.5
2015	23-Mar-15	11	441.9	306.5		1422.6			284.3	615.5
2015	23-Mar-15	12	333.2	129.6		1159.1			366	558.1
2015	23-Mar-15	13	249.4	265.8		1013.8			507.7	542.8
2015	23-Mar-15	14	177.2	79.4		952.9			691.3	550.7
2015	23-Mar-15	15	143.8	104.7		928.1			660.6	597.1
2015	23-Mar-15	16	116	72.8		929.3			654.1	613
2015	23-Mar-15	17	158.6	83		1005.6			637.1	622
2015	23-Mar-15	18	238.3	100.9		1646.5			634	868.9
2015	23-Mar-15	19	406.2	298.3		2112.3			764	937.9
2015	23-Mar-15	20	407.3	217.3		1823.8			0.5	903.7
2015	23-Mar-15	21	276.5	164.5		1206.8			0.7	786.9
2015	23-Mar-15	22	223.3	63.4		956.9			48.5	609.6
2015	23-Mar-15	23	158	85.6		880.3			43	549.4
2015	24-Mar-15	0	124	62.1		896.6			50.6	545.5
2015	24-Mar-15	1	133.2	81.4		900.3			46.8	550.6
2015	24-Mar-15	2	131.4	35		905			44.9	546.3
2015	24-Mar-15	3	136.5	75.1		902.8			44.2	543.6
2015	24-Mar-15	4	164.4	61.1		1086.5			44.4	701.5
2015	24-Mar-15	5	353.1	356.3		2171			45.9	983.7
2015	24-Mar-15	6	759.7	661.2		2152.8			123.6	924
2015	24-Mar-15	7	897.5	740.5		2152.7			157.4	918.8
2015	24-Mar-15	8	617.8	431.6		1695.3			202.2	846.5
2015	24-Mar-15	9	385.9	320.2		1247			308.2	716
2015	24-Mar-15	10	291.1	100		933.8			395.7	603.4
2015	24-Mar-15	11	201.2	189.5		875.2			620	517.9
2015	24-Mar-15	12	151.5	76.1		889.3			758.4	500.2
2015	24-Mar-15	13	115	68.3		892.8			997.9	501.5
2015	24-Mar-15	14	105.9	72		895			1087	530.5
2015	24-Mar-15	15	116.1	77.1		886.1			1089.2	515.4
2015	24-Mar-15	16	118.5	47.3		874.3			985.5	494.4
2015	24-Mar-15	17	109.5	60		873.3			952	482.5
2015	24-Mar-15	18	126.8	50.5		1001.6			992.3	551.3
2015	24-Mar-15	19	176.6	100.2		1369.4			951	690.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	24-Mar-15	20	196.1	75.2		1371.4			939.2	535
2015	24-Mar-15	21	179.1	79.5		987.1			953	485.5
2015	24-Mar-15	22	132.7	35.2		867.9			949.2	503.1
2015	24-Mar-15	23	120.4	53.3		865.8			825.6	538.2
2015	25-Mar-15	0	123.8	32.2		873.8			599.1	539
2015	25-Mar-15	1	121.9	9.248		872.9			565.7	535.9
2015	25-Mar-15	2	121.1			880.2			579.6	537.3
2015	25-Mar-15	3	124.6			875.7			578.5	535.4
2015	25-Mar-15	4	192.6			1217.9			723.2	619.9
2015	25-Mar-15	5	489.4			2080.4			946.7	807
2015	25-Mar-15	6	876.3			2168			933	902.2
2015	25-Mar-15	7	778.3			2233.9			1016.2	830.4
2015	25-Mar-15	8	843.2			1964.4			965.7	910.3
2015	25-Mar-15	9	879.2			2095.2			949.6	928.9
2015	25-Mar-15	10	998.9			2067			863	885.4
2015	25-Mar-15	11	1074.6			1764			879.2	989
2015	25-Mar-15	12	822.1			1134.5			889.1	996.9
2015	25-Mar-15	13	567.4			985.3			751.7	962.9
2015	25-Mar-15	14	330.6			902.4			555.3	885.4
2015	25-Mar-15	15	357.4			974.9			535.1	710.5
2015	25-Mar-15	16	299.4			915.8			549.6	499.3
2015	25-Mar-15	17	271			911.9			582.2	492.7
2015	25-Mar-15	18	262.7			958.9			582.4	582.9
2015	25-Mar-15	19	375.4			1125.6			577.6	633.9
2015	25-Mar-15	20	331.8			947.3			596.1	604.5
2015	25-Mar-15	21	303.9			899.4			588.8	571.3
2015	25-Mar-15	22	244.7			911.2			580.5	571.9
2015	25-Mar-15	23	193.6			930.9			585.1	526.3
2015	26-Mar-15	0	179.3			940.3			581.8	514.6
2015	26-Mar-15	1	190.1			940.1			578.6	506.5
2015	26-Mar-15	2	189.1			948.6			590.2	525.4
2015	26-Mar-15	3	175.1			948			589	524.3
2015	26-Mar-15	4	186.5			970.5			612.4	558.9
2015	26-Mar-15	5	375.8			1685.1			871.9	761.3
2015	26-Mar-15	6	930.4			2113.8			1008.6	946.9
2015	26-Mar-15	7	689			1548			770.2	828.4
2015	26-Mar-15	8	599.8			1040.8			737.5	951.3
2015	26-Mar-15	9	748.7			934.6			479.6	865.8
2015	26-Mar-15	10	719			980.2			305.5	751
2015	26-Mar-15	11	750.4			926.6			42.222	552.3
2015	26-Mar-15	12	450.5			906.2				444.3
2015	26-Mar-15	13	292.5			898.4				98.05
2015	26-Mar-15	14	250.2			935.9				
2015	26-Mar-15	15	286.6			926.4				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	26-Mar-15	16	201.2			903.5				
2015	26-Mar-15	17	173.5			923.7				
2015	26-Mar-15	18	193			956.1				
2015	26-Mar-15	19	165.7			1045.2				
2015	26-Mar-15	20	158			951.7				
2015	26-Mar-15	21	141.9			964.1				
2015	26-Mar-15	22	147.1			955				
2015	26-Mar-15	23	143			954.6				
2015	27-Mar-15	0	155.9			946.4				
2015	27-Mar-15	1	134.9			937.2				
2015	27-Mar-15	2	140.7			938.7				
2015	27-Mar-15	3	123.3			936.3				
2015	27-Mar-15	4	123.1			937.4				
2015	27-Mar-15	5	137			1012.6				
2015	27-Mar-15	6	190.5			1644.2				
2015	27-Mar-15	7	263.4			2047.3				
2015	27-Mar-15	8	563.1			2035.9				
2015	27-Mar-15	9	952.1			2039.8				
2015	27-Mar-15	10	995.8			2074.2				
2015	27-Mar-15	11	1089.5			2102.8				
2015	27-Mar-15	12	1019.7			2089.8				
2015	27-Mar-15	13	1081.2			1601.8				
2015	27-Mar-15	14	474.9			1100.5				
2015	27-Mar-15	15	404.2			924.9				
2015	27-Mar-15	16	384			1003.7				
2015	27-Mar-15	17	279.8			985.7				
2015	27-Mar-15	18	254.8			975.2				
2015	27-Mar-15	19	422.9			1184.3				
2015	27-Mar-15	20	474.7			1420.371				
2015	27-Mar-15	21	461.9			1443.9				
2015	27-Mar-15	22	439.3			1353				
2015	27-Mar-15	23	404.1			1148				
2015	28-Mar-15	0	337.4			1006.1				
2015	28-Mar-15	1	334.4			933.9				
2015	28-Mar-15	2	248.3			972.1				
2015	28-Mar-15	3	300.7			1121.2				
2015	28-Mar-15	4	253.4			1019.1				
2015	28-Mar-15	5	346.9			1119.1				
2015	28-Mar-15	6	341.1			1030.4				
2015	28-Mar-15	7	480.5			1138				
2015	28-Mar-15	8	744.3			1736.8				
2015	28-Mar-15	9	517.2			1978.1				
2015	28-Mar-15	10	501.7			2072.5				
2015	28-Mar-15	11	378.1			1863.6				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	28-Mar-15	12	296.9			1679.4				
2015	28-Mar-15	13	368.9			1331.4				
2015	28-Mar-15	14	356.1			1063.3				
2015	28-Mar-15	15	390.9			911.2				
2015	28-Mar-15	16	282.9			910.6				
2015	28-Mar-15	17	231.4			941.5				
2015	28-Mar-15	18	394.6			1443.7				
2015	28-Mar-15	19	568.2			2210.5				
2015	28-Mar-15	20	526.6			2214.5				
2015	28-Mar-15	21	546			2216.9				
2015	28-Mar-15	22	498.9			1995.1				
2015	28-Mar-15	23	486.1			1471				
2015	29-Mar-15	0	458.9			1060.8				
2015	29-Mar-15	1	381.3			888.6				
2015	29-Mar-15	2	332.4			898.5				
2015	29-Mar-15	3	375.8			932				
2015	29-Mar-15	4	434.1			1144.5				
2015	29-Mar-15	5	475.6			1018.9				
2015	29-Mar-15	6	546.9			1131.1				
2015	29-Mar-15	7	566.2			1594.6				
2015	29-Mar-15	8	518.8			1165.9				
2015	29-Mar-15	9	410.2			1084.6				
2015	29-Mar-15	10	302.3			896.1				
2015	29-Mar-15	11	249.7			894				
2015	29-Mar-15	12	190.2			914.6				
2015	29-Mar-15	13	160.2			917.5				
2015	29-Mar-15	14	143.2			928.1				
2015	29-Mar-15	15	143.1			935.9				
2015	29-Mar-15	16	134.4			947.1				
2015	29-Mar-15	17	134.9			953.4				
2015	29-Mar-15	18	164.7			1025.1				
2015	29-Mar-15	19	313.9			1704.1				
2015	29-Mar-15	20	354.3			1473.3				
2015	29-Mar-15	21	276.1			1077.6				
2015	29-Mar-15	22	235.6			909.4				
2015	29-Mar-15	23	211.2			921.8				
2015	30-Mar-15	0	209.1			927				
2015	30-Mar-15	1	186			923.9				
2015	30-Mar-15	2	160.4			931.6				
2015	30-Mar-15	3	187.3			1102.3				
2015	30-Mar-15	4	328.7			2010.1				
2015	30-Mar-15	5	662.5			2255.8				
2015	30-Mar-15	6	966.1			2310.4				
2015	30-Mar-15	7	910.1			2183.4				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	30-Mar-15	8	721.8			1626.6				
2015	30-Mar-15	9	703.3			1324				
2015	30-Mar-15	10	467.5			1041				
2015	30-Mar-15	11	291.6			1014				0
2015	30-Mar-15	12	207.6			1016.2				0
2015	30-Mar-15	13	165.5			994.6				0
2015	30-Mar-15	14	151.5			981.3				15
2015	30-Mar-15	15	158.1	1.035		990.7				39.4
2015	30-Mar-15	16	169.7	3.4		994.5				4.7
2015	30-Mar-15	17	159.7	3.3		997.5				0
2015	30-Mar-15	18	155.4	1.595		1028.1				0
2015	30-Mar-15	19	176			1160				0
2015	30-Mar-15	20	149.3			1035.4				0
2015	30-Mar-15	21	134.9			969.4				9.2
2015	30-Mar-15	22	131.7			980.1				156.6
2015	30-Mar-15	23	134.5			990.5				279.8
2015	31-Mar-15	0	133.3			970.7				550.6
2015	31-Mar-15	1	128.5			971.3				611
2015	31-Mar-15	2	126.6			964.9				568.2
2015	31-Mar-15	3	225.9			1165				666.1
2015	31-Mar-15	4	685.6			1946.6				791.4
2015	31-Mar-15	5	1015.1			2353				918.9
2015	31-Mar-15	6	1251.4			2277.5				917.9
2015	31-Mar-15	7	1077			1742.6				844.5
2015	31-Mar-15	8	1088.4			1605.9				789.5
2015	31-Mar-15	9	817.5			1173.9				683.9
2015	31-Mar-15	10	998.6			1029.5				649.7
2015	31-Mar-15	11	1025			1004.5				658.5
2015	31-Mar-15	12	779.7			994.3				574.2
2015	31-Mar-15	13	436.7			998.6				507.9
2015	31-Mar-15	14	257.4			996.5				512.4
2015	31-Mar-15	15	183.3			1005.6				511.5
2015	31-Mar-15	16	143.4			1007.8				504
2015	31-Mar-15	17	152.1			988.5				499
2015	31-Mar-15	18	160.4			967				519.5
2015	31-Mar-15	19	288.9			1505.7				685.9
2015	31-Mar-15	20	319.3			1367.2				629.3
2015	31-Mar-15	21	268.8			1034.6				534.6
2015	31-Mar-15	22	234.4			929.8				464.9
2015	31-Mar-15	23	171.9			944				492.6
2015	1-Apr-15	0	144.3			943.8				495.3
2015	1-Apr-15	1	154.7			944.6				488.7
2015	1-Apr-15	2	146.3			946.4				495.2
2015	1-Apr-15	3	155.2			953.3				542.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Apr-15	4	283.9			1402.9				609.7
2015	1-Apr-15	5	682			2380.1				755.9
2015	1-Apr-15	6	1039.7			2295.3				739.6
2015	1-Apr-15	7	1106			2173.1				788.2
2015	1-Apr-15	8	1109.3			1420				801.6
2015	1-Apr-15	9	1037.1			1041.6				830.2
2015	1-Apr-15	10	1071.7			1027.5				795.1
2015	1-Apr-15	11	1109.4			1015.1				822.9
2015	1-Apr-15	12	873.5			995.7				737.9
2015	1-Apr-15	13	804.9			998.9				643.3
2015	1-Apr-15	14	663.6			994.3				614.6
2015	1-Apr-15	15	630			1006.6				593.3
2015	1-Apr-15	16	546.7			969.4				638.5
2015	1-Apr-15	17	540			955.1				628.7
2015	1-Apr-15	18	540.1			1007.9				659.5
2015	1-Apr-15	19	786.2			1164.6				767.7
2015	1-Apr-15	20	925.5			997.6				823.1
2015	1-Apr-15	21	711.3			941.3				703.9
2015	1-Apr-15	22	493.1			957.7				568.8
2015	1-Apr-15	23	334			953.4				462.7
2015	2-Apr-15	0	234.6			981.5				496.1
2015	2-Apr-15	1	318.2			1208.8				610.3
2015	2-Apr-15	2	347.6			1148.9				609.7
2015	2-Apr-15	3	536.1			1499.5				731.7
2015	2-Apr-15	4	920.1			1456.6				840.5
2015	2-Apr-15	5	1158.7			1927.8				835.3
2015	2-Apr-15	6	1200.8			1894.5				833.3
2015	2-Apr-15	7	1230.5			1878.5				837.4
2015	2-Apr-15	8	1019.2			1641.3				771.8
2015	2-Apr-15	9	1182.3			1575.8				824.3
2015	2-Apr-15	10	1077.1			1788.5				848.6
2015	2-Apr-15	11	1186.9			2123.8				825.4
2015	2-Apr-15	12	1086.9			2194.7				837.4
2015	2-Apr-15	13	1176			2146.7				819.9
2015	2-Apr-15	14	1142.8			2139				814.1
2015	2-Apr-15	15	1204.2			2000.2				791.6
2015	2-Apr-15	16	1118.9			1892.8				805.8
2015	2-Apr-15	17	1239.9			2058.8				855.6
2015	2-Apr-15	18	1152.9			2219.6				876
2015	2-Apr-15	19	1224.6			2261.2				862.6
2015	2-Apr-15	20	1169.9			2237.7				859.5
2015	2-Apr-15	21	942.9			1827				848.4
2015	2-Apr-15	22	572.1			1101.2				826.7
2015	2-Apr-15	23	473.7			922.8				850.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	3-Apr-15	0	464			955.4				870.1
2015	3-Apr-15	1	461.7			1010.7				862
2015	3-Apr-15	2	450.8			936.7				850.3
2015	3-Apr-15	3	678.1			1354.7				832.8
2015	3-Apr-15	4	952.5			1708.5				844.5
2015	3-Apr-15	5	963.4			2187.6				858.9
2015	3-Apr-15	6	1065.7			2054.8				839.4
2015	3-Apr-15	7	1111			1944.6				820.9
2015	3-Apr-15	8	987.5			1694.4				829.7
2015	3-Apr-15	9	1012.4			1774.7				883.2
2015	3-Apr-15	10	1023			2029.7				974.2
2015	3-Apr-15	11	1090.1			1968.9				1033
2015	3-Apr-15	12	1032			1773.7				1128.1
2015	3-Apr-15	13	900.3			1676.2				1122.9
2015	3-Apr-15	14	857.7			1601.8				960.6
2015	3-Apr-15	15	1020.6			1829.9				957.3
2015	3-Apr-15	16	923			2085.8				1214.7
2015	3-Apr-15	17	893.2			1781.5				1252.7
2015	3-Apr-15	18	737.9			1603.2				1595.9
2015	3-Apr-15	19	527.2			1170.4				1410.9
2015	3-Apr-15	20	286.5			668.1				1079.7
2015	3-Apr-15	21	201.1			55.89				838.8
2015	3-Apr-15	22	137.8							743.7
2015	3-Apr-15	23	121.4							415.875
2015	4-Apr-15	0	122							
2015	4-Apr-15	1	134.3							
2015	4-Apr-15	2	131.9							
2015	4-Apr-15	3	166.6							
2015	4-Apr-15	4	246.6							
2015	4-Apr-15	5	315.5							
2015	4-Apr-15	6	447.2							
2015	4-Apr-15	7	611.7							
2015	4-Apr-15	8	958.8							
2015	4-Apr-15	9	949.6							
2015	4-Apr-15	10	706.8							
2015	4-Apr-15	11	791.4							
2015	4-Apr-15	12	927.9							
2015	4-Apr-15	13	1030.2							
2015	4-Apr-15	14	1081.1							
2015	4-Apr-15	15	1028.8							
2015	4-Apr-15	16	906.5							
2015	4-Apr-15	17	882							
2015	4-Apr-15	18	762.3							
2015	4-Apr-15	19	892.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	4-Apr-15	20	703.9							
2015	4-Apr-15	21	429.2							
2015	4-Apr-15	22	363.7							
2015	4-Apr-15	23	370.3							
2015	5-Apr-15	0	453.6							
2015	5-Apr-15	1	646.5							
2015	5-Apr-15	2	780.3							
2015	5-Apr-15	3	1105.7							
2015	5-Apr-15	4	1011.7							
2015	5-Apr-15	5	1074.2							
2015	5-Apr-15	6	1155.5							
2015	5-Apr-15	7	1038.9		0.062					
2015	5-Apr-15	8	1011.4		0.067					
2015	5-Apr-15	9	971		0.067					
2015	5-Apr-15	10	912.1		0.067					
2015	5-Apr-15	11	1053.7		0.089					
2015	5-Apr-15	12	850.8		0.105					
2015	5-Apr-15	13	749.1		0.079					
2015	5-Apr-15	14	780.5		0.068					
2015	5-Apr-15	15	619.2		0.073					0
2015	5-Apr-15	16	413.9		0.078		0			0
2015	5-Apr-15	17	385.8		0.069		0			7.8
2015	5-Apr-15	18	255.7		0.081		20.8			43.8
2015	5-Apr-15	19	250.9		0.087		90.8			39.2
2015	5-Apr-15	20	251.2		0.088		221.1			5.8
2015	5-Apr-15	21	253.6		0.111		231.6			37.6
2015	5-Apr-15	22	204.2		0.087		231.2			34.9
2015	5-Apr-15	23	164.8		0.087		251.2			38.2
2015	6-Apr-15	0	144.1		0.086		217			102.2
2015	6-Apr-15	1	165.2		0.086		228.1			405.2
2015	6-Apr-15	2	181		0.108		319.3			835
2015	6-Apr-15	3	248		0.088		321.9			1026.4
2015	6-Apr-15	4	381.4		0.088		314.8			1093.6
2015	6-Apr-15	5	550.5		0.088		459.2			1118
2015	6-Apr-15	6	738.1		0.088		1325.2			1101.5
2015	6-Apr-15	7	878.5		0.088		1575.4			945.4
2015	6-Apr-15	8	926.4		0.088		1818.4			827.5
2015	6-Apr-15	9	961.4		0.08		2189.2			771.6
2015	6-Apr-15	10	864.1		0.011		2414.5			683.7
2015	6-Apr-15	11	923.2				2761.1			655.4
2015	6-Apr-15	12	922.9				2875			653.6
2015	6-Apr-15	13	927.8				2965.4			751.4
2015	6-Apr-15	14	942.6				3283.2			658.7
2015	6-Apr-15	15	952.4				3534.5			672.1



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	6-Apr-15	16	991.9				3514.9			650
2015	6-Apr-15	17	924.4				3110.1			675.3
2015	6-Apr-15	18	878.6				3170.9			644.9
2015	6-Apr-15	19	889.7				3240.3			634.8
2015	6-Apr-15	20	821.7				3103.4			628.1
2015	6-Apr-15	21	809.6				3031.8			594.9
2015	6-Apr-15	22	600.7				2702.8			489.1
2015	6-Apr-15	23	436.4				2481.9			499
2015	7-Apr-15	0	270.9				2249.4			491.1
2015	7-Apr-15	1	205.2				2230.9			487.5
2015	7-Apr-15	2	143				2246.9			491.8
2015	7-Apr-15	3	125.2				2233.9			490.5
2015	7-Apr-15	4	143.6				2392.2			658.3
2015	7-Apr-15	5	185.4				2554.7			841.6
2015	7-Apr-15	6	255.9				2785.6			763.2
2015	7-Apr-15	7	347.6				3059.2			855.1
2015	7-Apr-15	8	387.1				3148.6			843.3
2015	7-Apr-15	9	373.6				3231.6			774.4
2015	7-Apr-15	10	347				3115.1			630
2015	7-Apr-15	11	480.6				3303			686.9
2015	7-Apr-15	12	619.2				3377			918.2
2015	7-Apr-15	13	784.1				3499.7			1064.4
2015	7-Apr-15	14	899.5				3783.6			871.6
2015	7-Apr-15	15	920.3				3876.2			849.8
2015	7-Apr-15	16	946.8				3921.3			922.8
2015	7-Apr-15	17	1091.5				3916.5			882.8
2015	7-Apr-15	18	1096.4				3940.7			845.1
2015	7-Apr-15	19	1028.4				3950.3			845.6
2015	7-Apr-15	20	1002.2				3961.8			832
2015	7-Apr-15	21	968.6				3908.3			791.3
2015	7-Apr-15	22	958.9				3845.3			733.4
2015	7-Apr-15	23	860.1				3745.6			692.2
2015	8-Apr-15	0	570.2				3325.7			620.5
2015	8-Apr-15	1	455.6				2987.6			634.1
2015	8-Apr-15	2	387.2				2742.8			639.4
2015	8-Apr-15	3	419.8				2523.1			710.5
2015	8-Apr-15	4	772.5				2958.6			837.1
2015	8-Apr-15	5	863.5				3605.7			893.3
2015	8-Apr-15	6	903.6				3926.3			947
2015	8-Apr-15	7	876.1				3940.5			935.9
2015	8-Apr-15	8	916				3987			878.3
2015	8-Apr-15	9	956.2				3985.4			1656.2
2015	8-Apr-15	10	927.8				3964.6			824.2
2015	8-Apr-15	11	947.1				3961.8			791.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	8-Apr-15	12	882.1				3889.9			733.7
2015	8-Apr-15	13	843.7				3680.7			627.2
2015	8-Apr-15	14	654.9				3375.9			517.8
2015	8-Apr-15	15	518				3258			444
2015	8-Apr-15	16	412				3161.2			455.3
2015	8-Apr-15	17	415.7				3126.3			447.9
2015	8-Apr-15	18	365				2852.9			450.9
2015	8-Apr-15	19	427.3				3010.2			471.1
2015	8-Apr-15	20	401.5				3089.5			460.4
2015	8-Apr-15	21	353.6				2912.6			429.4
2015	8-Apr-15	22	281.8				2529.2			406.8
2015	8-Apr-15	23	202.7				2408.9			431.7
2015	9-Apr-15	0	169.6				2406.4			431.2
2015	9-Apr-15	1	152.3				2375			435
2015	9-Apr-15	2	114.4				2356.6			433.4
2015	9-Apr-15	3	106.6				2379.3			434.1
2015	9-Apr-15	4	133.1				2416			431
2015	9-Apr-15	5	166.3				2740.2			494.5
2015	9-Apr-15	6	204.3				3108.9			477.3
2015	9-Apr-15	7	198.9				3249.6			442.8
2015	9-Apr-15	8	181.6				3059.1			450.8
2015	9-Apr-15	9	201.5				2805.6			446.8
2015	9-Apr-15	10	186.3				2690.1			497.5
2015	9-Apr-15	11	182.1				2688			558.7
2015	9-Apr-15	12	165.6				2472.8			548.3
2015	9-Apr-15	13	172.7				2699.3			511.7
2015	9-Apr-15	14	163.3				2658.3			743.8
2015	9-Apr-15	15	180.2				2760.7			653.9
2015	9-Apr-15	16	148.4				2520.8			534.5
2015	9-Apr-15	17	149.9				2378			525.2
2015	9-Apr-15	18	139.7				2392.9			623.1
2015	9-Apr-15	19	133.1				2421.5			736.1
2015	9-Apr-15	20	122.4				2360.3			777.9
2015	9-Apr-15	21	128.9				2378.5			662.7
2015	9-Apr-15	22	126.6				2336.3			338.604
2015	9-Apr-15	23	120.1				2323.4			
2015	10-Apr-15	0	117.5				2329.9			
2015	10-Apr-15	1	119.9				2325			
2015	10-Apr-15	2	114.9				2311.3			
2015	10-Apr-15	3	119				2318.7			
2015	10-Apr-15	4	114.7				2320.8			
2015	10-Apr-15	5	119.1				2370.2			
2015	10-Apr-15	6	181				2660.2			
2015	10-Apr-15	7	223.6				3011.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	10-Apr-15	8	240.6				3175.1			
2015	10-Apr-15	9	204.7				3005.2			
2015	10-Apr-15	10	172.6				2655.2			
2015	10-Apr-15	11	145.2				2500.1			
2015	10-Apr-15	12	145.8				2336.7			
2015	10-Apr-15	13	134.6				2321.2			
2015	10-Apr-15	14	121.3				2326.7			
2015	10-Apr-15	15	124.6				2326.9			
2015	10-Apr-15	16	135.1				2355.5			
2015	10-Apr-15	17	124				2342.9			
2015	10-Apr-15	18	119.3				2345			
2015	10-Apr-15	19	118				2402.4			
2015	10-Apr-15	20	125.3				2670.6			
2015	10-Apr-15	21	458.8				2372.3			
2015	10-Apr-15	22	477.2				2346			
2015	10-Apr-15	23	58.058				2366			
2015	11-Apr-15	0					2360.5			
2015	11-Apr-15	1					2348.5			
2015	11-Apr-15	2					2362.2			
2015	11-Apr-15	3					2379.6			
2015	11-Apr-15	4					2378.3			
2015	11-Apr-15	5					2361.1			
2015	11-Apr-15	6					2396.6			
2015	11-Apr-15	7					2846.7			
2015	11-Apr-15	8					3088			
2015	11-Apr-15	9					2748.3			
2015	11-Apr-15	10					2687.3			
2015	11-Apr-15	11					2952			
2015	11-Apr-15	12		3.128			3265.6			
2015	11-Apr-15	13		2.5			3564.1			
2015	11-Apr-15	14		3.3			3855.2			
2015	11-Apr-15	15		4.5			3720.8			
2015	11-Apr-15	16		10.3			3536.3			
2015	11-Apr-15	17		6.5			3354			
2015	11-Apr-15	18		6.4			2918.2			
2015	11-Apr-15	19		5.5			3069.8			
2015	11-Apr-15	20		5.4			3016			
2015	11-Apr-15	21		4.5			2728.4			
2015	11-Apr-15	22		4.5			2430.3			
2015	11-Apr-15	23		4.5			2403.3			
2015	12-Apr-15	0		3.5			2399.3			
2015	12-Apr-15	1		3.5			2397.1			
2015	12-Apr-15	2		3.5			2391.8			
2015	12-Apr-15	3		3.5			2392.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Apr-15	4		3.5			2401.5			
2015	12-Apr-15	5		6.1			2396.4			
2015	12-Apr-15	6		9.5			2514.2			
2015	12-Apr-15	7		8.7			2617.9			
2015	12-Apr-15	8		9.8			2910.4			
2015	12-Apr-15	9		15.8			2801.1			
2015	12-Apr-15	10		18.3			2580.6			
2015	12-Apr-15	11		35.1			2843.2			
2015	12-Apr-15	12		69.7			3018.7			
2015	12-Apr-15	13		163.7			2801.4			
2015	12-Apr-15	14		242.3			2760.4			
2015	12-Apr-15	15		596.6			3040.8			
2015	12-Apr-15	16		640.7			2770			
2015	12-Apr-15	17		864.1			2635.4			
2015	12-Apr-15	18		343.4			2483.1			
2015	12-Apr-15	19		259.2			2843.7			
2015	12-Apr-15	20		188.3			2821.1			
2015	12-Apr-15	21		182.3			2468.5			
2015	12-Apr-15	22		143.2			2335.3			
2015	12-Apr-15	23		177.6			2299.6			
2015	13-Apr-15	0		160.7			2295.6			
2015	13-Apr-15	1		179.1			2256.9			
2015	13-Apr-15	2		162.1			2258.5			
2015	13-Apr-15	3		176.3			2244.9			
2015	13-Apr-15	4		164.5			2285.7			
2015	13-Apr-15	5		285.6			2424.8			
2015	13-Apr-15	6		832.6			2900.7			
2015	13-Apr-15	7		1129.2			3063.2			
2015	13-Apr-15	8		675.4			2826.5			
2015	13-Apr-15	9		980.5			2913.4			
2015	13-Apr-15	10		1381.7			3234.3			
2015	13-Apr-15	11		1583.2			3613.5			
2015	13-Apr-15	12		1444.1			3702.8			
2015	13-Apr-15	13		1136.4			3660.4			
2015	13-Apr-15	14		511.1			3545.5			
2015	13-Apr-15	15		576.8			3668.6			
2015	13-Apr-15	16		533.2			3598.4			
2015	13-Apr-15	17		543.9			3480			
2015	13-Apr-15	18		593			3511.4			
2015	13-Apr-15	19		681.6			3478.6			
2015	13-Apr-15	20		536.7			3446.7			
2015	13-Apr-15	21		286.6			3466.1			
2015	13-Apr-15	22		269.3			3495.6			
2015	13-Apr-15	23		269.2			3455.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	14-Apr-15	0		156.7			3278.9			
2015	14-Apr-15	1		198.5			3280.8			
2015	14-Apr-15	2		121.7			2860.1			
2015	14-Apr-15	3		91.6			2579			
2015	14-Apr-15	4		113.2			2745.1			
2015	14-Apr-15	5		226.9			3236.8			
2015	14-Apr-15	6		315.3			3513			
2015	14-Apr-15	7		309			3541.9			
2015	14-Apr-15	8		214.7			3508.8			
2015	14-Apr-15	9		216.5			3471.2			
2015	14-Apr-15	10		242.1			3449.2			
2015	14-Apr-15	11		361.2			3467.4			
2015	14-Apr-15	12		299.3			3336.9			
2015	14-Apr-15	13		214.8			3354.9			
2015	14-Apr-15	14		115.1			3047.6			
2015	14-Apr-15	15		204.8			3265.6			
2015	14-Apr-15	16		288.5			3271.6			
2015	14-Apr-15	17		381.1			3072.4			
2015	14-Apr-15	18		273.6			2860.2			
2015	14-Apr-15	19		323.3			3095.4			
2015	14-Apr-15	20		493.2			3259.2			
2015	14-Apr-15	21		350.4			2965.6			
2015	14-Apr-15	22		220.9			3016.8			
2015	14-Apr-15	23		452.3			3289.4			
2015	15-Apr-15	0		662.8			3244.4			
2015	15-Apr-15	1		698.2			3179.1			
2015	15-Apr-15	2		496.1			3133.7			
2015	15-Apr-15	3		624.6			3260			
2015	15-Apr-15	4		720.3			3630			
2015	15-Apr-15	5		472.3			3798.8			
2015	15-Apr-15	6		410			1221.6			
2015	15-Apr-15	7		402.9	0.013					
2015	15-Apr-15	8		374.6	0.073					
2015	15-Apr-15	9		380.7	0.067					
2015	15-Apr-15	10		332.5	0.067					
2015	15-Apr-15	11		309.5	0.077					
2015	15-Apr-15	12		234.8	0.053					
2015	15-Apr-15	13		433.7	0.066					
2015	15-Apr-15	14		416.7	0.066					
2015	15-Apr-15	15		462.3	0.066					
2015	15-Apr-15	16		393.8	0.066					
2015	15-Apr-15	17		416.3	0.078					
2015	15-Apr-15	18		384.4	0.075					
2015	15-Apr-15	19		405.8	0.065					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	15-Apr-15	20		449.2	0.065					
2015	15-Apr-15	21		528.8	0.067					
2015	15-Apr-15	22		566.2	0.077					
2015	15-Apr-15	23		503.2	0.065					
2015	16-Apr-15	0		206.9	0.065					
2015	16-Apr-15	1		175.6	0.065					
2015	16-Apr-15	2		117.1	0.057					
2015	16-Apr-15	3		137.9	0.051					
2015	16-Apr-15	4		134.9	0.051					
2015	16-Apr-15	5		278.4	0.051					
2015	16-Apr-15	6		628.1	0.078					
2015	16-Apr-15	7		605.6	0.079					
2015	16-Apr-15	8		382.1	0.068					
2015	16-Apr-15	9		309.2	0.066					
2015	16-Apr-15	10		296.6	0.066		0			
2015	16-Apr-15	11		331.7	0.066		0			
2015	16-Apr-15	12		346.7	0.066		1.7			
2015	16-Apr-15	13		396.8	0.066		231.7			
2015	16-Apr-15	14		502.8	0.066		189.7			
2015	16-Apr-15	15		576.1	0.066		291.6			
2015	16-Apr-15	16		531.8	0.066		307			
2015	16-Apr-15	17		552.4	0.066		375			
2015	16-Apr-15	18		580.3	0.066		670.3			
2015	16-Apr-15	19		556.6	0.065		1049.5			
2015	16-Apr-15	20		471.8	0.049		1516.2			
2015	16-Apr-15	21		421.5			2612			
2015	16-Apr-15	22		341.1			2922.6			
2015	16-Apr-15	23		319.1			2979.9			
2015	17-Apr-15	0		181.6			2902.4			
2015	17-Apr-15	1		156.4			2938.5			
2015	17-Apr-15	2		110.2			2932			
2015	17-Apr-15	3		113.7			3071.7			
2015	17-Apr-15	4		144.6			2812.2			
2015	17-Apr-15	5		446.4			2604.8			
2015	17-Apr-15	6		581.8			2438.8			
2015	17-Apr-15	7		470.8			2662.6			
2015	17-Apr-15	8		186.1			2872.2			
2015	17-Apr-15	9		208.3			2762.3			
2015	17-Apr-15	10		159.2			2653.6			
2015	17-Apr-15	11		173.1			2681.6			
2015	17-Apr-15	12		129.5			2783.3			
2015	17-Apr-15	13		189.2			2830.1			
2015	17-Apr-15	14		147			2850.6			
2015	17-Apr-15	15		228.6			3043.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	17-Apr-15	16		257.5			2873.7			
2015	17-Apr-15	17		310.9			2690.4			
2015	17-Apr-15	18		182.6			2518.2			
2015	17-Apr-15	19		188.3			2680.7			
2015	17-Apr-15	20		187.1			2853.2			
2015	17-Apr-15	21		232.4			2560.3			
2015	17-Apr-15	22		152.2			2253.7			
2015	17-Apr-15	23		198.6			2363.2			
2015	18-Apr-15	0		118.5			2233.4			
2015	18-Apr-15	1		138.3			2121.3			
2015	18-Apr-15	2		107.8			1972.8			
2015	18-Apr-15	3		134.6			1900.5			
2015	18-Apr-15	4		102.1			1929			
2015	18-Apr-15	5		148.5			1919.4			
2015	18-Apr-15	6		158.7			1937.7			
2015	18-Apr-15	7		177.4			2284.7			
2015	18-Apr-15	8		103.1			2276.3			
2015	18-Apr-15	9		163.2			2247.8			
2015	18-Apr-15	10		168.5			2480.9			
2015	18-Apr-15	11		281.5			2535.9			
2015	18-Apr-15	12		427.1			2532.1			
2015	18-Apr-15	13		709.3			2747.1			
2015	18-Apr-15	14		787.4			2885.6			
2015	18-Apr-15	15		748.3			2607.9			
2015	18-Apr-15	16		799.5			2738.6			
2015	18-Apr-15	17		669.9			2742.2			
2015	18-Apr-15	18		513.6			2636.9			
2015	18-Apr-15	19		447.9			2452.5			
2015	18-Apr-15	20		326.6			2547.5			
2015	18-Apr-15	21		256.7			2349			
2015	18-Apr-15	22		141.2			2286.2			
2015	18-Apr-15	23		168.2			2123.9			
2015	19-Apr-15	0		154.3			2073.1			
2015	19-Apr-15	1		164.3			2059			
2015	19-Apr-15	2		116.9			2074.2			
2015	19-Apr-15	3		104.9			2088.9			
2015	19-Apr-15	4		74.8			2113.8			
2015	19-Apr-15	5		57.2			2123			
2015	19-Apr-15	6		65.9			2128.1			
2015	19-Apr-15	7		62.2			2085.5			
2015	19-Apr-15	8		67.7			2404.1			
2015	19-Apr-15	9		89.9			2430			
2015	19-Apr-15	10		71.1			2252.8			
2015	19-Apr-15	11		66.4			2210.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	19-Apr-15	12		66.4			2435.2			
2015	19-Apr-15	13		70.2			2376.9			
2015	19-Apr-15	14		53.8			2184.7			
2015	19-Apr-15	15		67.9			2379.4			
2015	19-Apr-15	16		81.2			2569.4			
2015	19-Apr-15	17		128.7			2819.5			
2015	19-Apr-15	18		129.4	0.023		2875.2			
2015	19-Apr-15	19		279.5	0.055		3005.8			
2015	19-Apr-15	20		241.1	0.054		2999.1			
2015	19-Apr-15	21		172.3	0.057		2594.7			
2015	19-Apr-15	22		73.3	0.061		2268.9			
2015	19-Apr-15	23		69.1	0.068		2103.7			
2015	20-Apr-15	0		64.1	0.068		2117.1			
2015	20-Apr-15	1		70.5	0.068		2104.1			
2015	20-Apr-15	2		44.4	0.072		2084.9			
2015	20-Apr-15	3		57.6	0.1		2081.5			
2015	20-Apr-15	4		48.1	0.226		2071.4			
2015	20-Apr-15	5		76.1	0.241		2158.3			
2015	20-Apr-15	6		85.3	0.219		2165.3			
2015	20-Apr-15	7		70.5	0.255		2462.3			
2015	20-Apr-15	8		37.9	0.256		2675.8			
2015	20-Apr-15	9		154.4	0.255		3077.1			
2015	20-Apr-15	10		272.2	0.304		3305.7			
2015	20-Apr-15	11		489.7	0.456		3512.9			
2015	20-Apr-15	12		592.3	0.42		3545.4			
2015	20-Apr-15	13		578.4	0.524		3593.5			
2015	20-Apr-15	14		519.3	0.758		3587.8			
2015	20-Apr-15	15		616.7	0.875		3588.9			
2015	20-Apr-15	16		549.4	0.876		3608.1			
2015	20-Apr-15	17		630.7	0.859		3582.4			
2015	20-Apr-15	18		597.6	0.881		3613.9			
2015	20-Apr-15	19		669.7	0.874		3644.5			
2015	20-Apr-15	20		558.2	0.87		3611.2			
2015	20-Apr-15	21		583.5	0.857		3364.8			
2015	20-Apr-15	22		353.5	0.383		2991.3			
2015	20-Apr-15	23		370.4			2612.9			
2015	21-Apr-15	0		160			2385.8			
2015	21-Apr-15	1		179.8			2156.6			
2015	21-Apr-15	2		125.8			2132.1			
2015	21-Apr-15	3		120			2133.5			
2015	21-Apr-15	4		87			2400.7			
2015	21-Apr-15	5		169.7			2883.1			
2015	21-Apr-15	6		175.5			2946.6			
2015	21-Apr-15	7		277.6			2967.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	21-Apr-15	8		258.7			3038.5			
2015	21-Apr-15	9		423.8			3182.7			
2015	21-Apr-15	10		468.2			3201.8			
2015	21-Apr-15	11		656.4			3287.7			
2015	21-Apr-15	12		596.1			3364.1			
2015	21-Apr-15	13		656.1			3488.9			
2015	21-Apr-15	14		594.3			3535.5			
2015	21-Apr-15	15		672.6			3532.8			
2015	21-Apr-15	16		555.1			3441.6			
2015	21-Apr-15	17		656.1			3352.3			
2015	21-Apr-15	18		610.7			3430			
2015	21-Apr-15	19		665.8			3420.1			
2015	21-Apr-15	20		622.7			3563.4			
2015	21-Apr-15	21		707.9			3151.7			
2015	21-Apr-15	22		616.8			3093.8			
2015	21-Apr-15	23		445.1			2748.1			
2015	22-Apr-15	0		104.5			2396.2			
2015	22-Apr-15	1		166.8			2121.7			
2015	22-Apr-15	2		111.1			2162			
2015	22-Apr-15	3		101.4			2124.4			
2015	22-Apr-15	4		93.9			2283.7			
2015	22-Apr-15	5		171.8			2851.1			
2015	22-Apr-15	6		339.6			3495.7			
2015	22-Apr-15	7		549.7			3486.2			
2015	22-Apr-15	8		585.8			3482.7			
2015	22-Apr-15	9		712.4			3320.8			
2015	22-Apr-15	10		687.8			3365.7			
2015	22-Apr-15	11		722.8			3465			
2015	22-Apr-15	12		606.7			3408.2			
2015	22-Apr-15	13		533.4			3258.3			
2015	22-Apr-15	14		163.6			2975.8			
2015	22-Apr-15	15		338.3			2863.6			
2015	22-Apr-15	16		271.7			2602.7			
2015	22-Apr-15	17		319.4			2541.8			
2015	22-Apr-15	18		510.5			2676			
2015	22-Apr-15	19		757.7			2519			
2015	22-Apr-15	20		559.8			2731			
2015	22-Apr-15	21		367			2762.6			
2015	22-Apr-15	22		119.9			2439.3			
2015	22-Apr-15	23		116.6			2125.8			
2015	23-Apr-15	0		105.4			2200.4			
2015	23-Apr-15	1		90.1			2118.7			
2015	23-Apr-15	2		91.3			2062.1			
2015	23-Apr-15	3		88			2114.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Apr-15	4		79.1			2212.5			
2015	23-Apr-15	5		173.5			2815.2			
2015	23-Apr-15	6		308.2			3425.2			
2015	23-Apr-15	7		571			3401.9			
2015	23-Apr-15	8		379.2			3429.7			
2015	23-Apr-15	9		472.8			3423.2			
2015	23-Apr-15	10		193.1			3328.6			
2015	23-Apr-15	11		262.3			3012.1			
2015	23-Apr-15	12		169.7			2693.4			
2015	23-Apr-15	13		212.1			2352.6			
2015	23-Apr-15	14		136.7			2159.8			
2015	23-Apr-15	15		149.5			2184.2			
2015	23-Apr-15	16		130.3			2370			
2015	23-Apr-15	17		123.1			2379.1			
2015	23-Apr-15	18		102.7			2354.8			
2015	23-Apr-15	19		145.5	0.016		2696			
2015	23-Apr-15	20		137.3	0.045		2883.1			
2015	23-Apr-15	21		153.7	0.061		2659.7			
2015	23-Apr-15	22		94.5	0.076		2587.9			
2015	23-Apr-15	23		112.7	0.08		2583.3			
2015	24-Apr-15	0		90.6	0.068		2613.3			
2015	24-Apr-15	1		111	0.077		2746.2			
2015	24-Apr-15	2		90.2	0.102		2728.5			
2015	24-Apr-15	3		90.7	0.22		2522.8			
2015	24-Apr-15	4		56.7	0.339		2724.7			
2015	24-Apr-15	5		303.4	0.699		3258.9			
2015	24-Apr-15	6		603.3	0.861		3616.3			
2015	24-Apr-15	7		866.8	0.866		3646			
2015	24-Apr-15	8		590.8	0.848		3639.6			
2015	24-Apr-15	9		675	0.781		3583.1			
2015	24-Apr-15	10		218.7	0.482		3334.1			
2015	24-Apr-15	11		236	0.251		3018.7			
2015	24-Apr-15	12		154	0.231		2757.7			
2015	24-Apr-15	13		173.2	0.111		2668.3			
2015	24-Apr-15	14		134.5			2643.8			
2015	24-Apr-15	15		162.6			2693.9			
2015	24-Apr-15	16		132.3			2508.8			
2015	24-Apr-15	17		117.2			2277			
2015	24-Apr-15	18		85.5			2084.8			
2015	24-Apr-15	19		68.6			2185.1			
2015	24-Apr-15	20		72			2322.3			
2015	24-Apr-15	21	0	61.1			2086.2			
2015	24-Apr-15	22	0	56.9			2178			
2015	24-Apr-15	23	0	60			2209.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	25-Apr-15	0	0	49.7			2534.8			
2015	25-Apr-15	1	2.7	65			2215.7			
2015	25-Apr-15	2	1.8	60			2091.7			
2015	25-Apr-15	3	1.8	67.9			2076.3			
2015	25-Apr-15	4	0	56.9			2217.1			
2015	25-Apr-15	5	0	70.3			2336.7			
2015	25-Apr-15	6	4.4	91.6			2369			
2015	25-Apr-15	7	2.8	93.9			2575.8			
2015	25-Apr-15	8	1	34.7			2985.8			
2015	25-Apr-15	9	0	169.3			3321			
2015	25-Apr-15	10	0	179.5			3371.8			
2015	25-Apr-15	11	0	280.4			3233.5			
2015	25-Apr-15	12	0	332.8			3347.6			
2015	25-Apr-15	13	0	356			3180.6			
2015	25-Apr-15	14	0	185.3			2875.2			
2015	25-Apr-15	15	0	261.8			2542.7			
2015	25-Apr-15	16	0	169.4			2488.8			
2015	25-Apr-15	17	0	262.3			2282.2			
2015	25-Apr-15	18	0	172.9			2139.2			
2015	25-Apr-15	19	0	284.2			2403.5			
2015	25-Apr-15	20	0	245.4			2482.5			
2015	25-Apr-15	21	0	237.3			2166.3			
2015	25-Apr-15	22		76.8			2002.9			
2015	25-Apr-15	23		146.2			2062.1			
2015	26-Apr-15	0		131.5			1973.1			
2015	26-Apr-15	1		131.9			1946.5			
2015	26-Apr-15	2		65.9			1943			
2015	26-Apr-15	3		80.1			1956.7			
2015	26-Apr-15	4		61.4			1939.8			
2015	26-Apr-15	5		69			1936.9			
2015	26-Apr-15	6		101.7			1973.9			
2015	26-Apr-15	7		144.8			2388.9			
2015	26-Apr-15	8		98.4			2816.3			
2015	26-Apr-15	9		222.4			2808.7			
2015	26-Apr-15	10		155.6			2594.1			
2015	26-Apr-15	11		119.9			2312.8			
2015	26-Apr-15	12		88.4			2085.7			
2015	26-Apr-15	13		85.1			2039.1			
2015	26-Apr-15	14		74.4			2006.8			
2015	26-Apr-15	15		77.6			2008.8			
2015	26-Apr-15	16		66.8			2015.3			
2015	26-Apr-15	17		61.3			2014.3			
2015	26-Apr-15	18		51.5			2002.6			
2015	26-Apr-15	19		51.6			2345.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	26-Apr-15	20		44.6			2634.6			
2015	26-Apr-15	21		47.3			2187.9			
2015	26-Apr-15	22		37.2			2030.2			
2015	26-Apr-15	23		42.6			2030.1			
2015	27-Apr-15	0		30.3			2035.6			
2015	27-Apr-15	1		42.1			2055.3			
2015	27-Apr-15	2		30.6			2056.6			
2015	27-Apr-15	3		33.4			2046.8			
2015	27-Apr-15	4		23			2168.6			
2015	27-Apr-15	5		64.6			2634.6			
2015	27-Apr-15	6		153.9			3237.7			
2015	27-Apr-15	7		292.6			3409.9			
2015	27-Apr-15	8		278.7			3392.8			
2015	27-Apr-15	9		377.1			2990.3			
2015	27-Apr-15	10		166.2			2686.7			
2015	27-Apr-15	11		326.2			2785.9			
2015	27-Apr-15	12		361.4			2976			
2015	27-Apr-15	13		403.1			2766.4			
2015	27-Apr-15	14		308.8			2856			
2015	27-Apr-15	15		567.1			2992.9			
2015	27-Apr-15	16		523.7			3107.3			
2015	27-Apr-15	17		586.6			3058.6			
2015	27-Apr-15	18		530.8			3285.3			
2015	27-Apr-15	19		632.6			3316.5			
2015	27-Apr-15	20		454			3299			
2015	27-Apr-15	21		393.7			2935.3			
2015	27-Apr-15	22		180.1			2481.6			
2015	27-Apr-15	23		112.1			2215			
2015	28-Apr-15	0		84.3			2092.4			
2015	28-Apr-15	1		61.1			2005			
2015	28-Apr-15	2		70.8			1962.8			
2015	28-Apr-15	3		91.8			2087.1			
2015	28-Apr-15	4		85.9			2343.3			
2015	28-Apr-15	5		265.6			2892.1			
2015	28-Apr-15	6		589.8			3267.5			
2015	28-Apr-15	7		671.1			3291.8			
2015	28-Apr-15	8		416.2			3246.4			
2015	28-Apr-15	9		726.3			3028			
2015	28-Apr-15	10		658.2			2820.8			
2015	28-Apr-15	11		647.3			2715.1			
2015	28-Apr-15	12		559.2			2765.3			
2015	28-Apr-15	13		759.4			2943.8			
2015	28-Apr-15	14		773			2993.3			
2015	28-Apr-15	15		738.8			2844.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	28-Apr-15	16		530.6			2782			
2015	28-Apr-15	17		695.6			2840.7			
2015	28-Apr-15	18	0	513.8			2768.3			
2015	28-Apr-15	19	0	666.2			2849.8			
2015	28-Apr-15	20	0	633.6			3080.6			
2015	28-Apr-15	21	0	637.4			2895.6			
2015	28-Apr-15	22	3.6	265.3			2614.2			
2015	28-Apr-15	23	2.7	344.2			2299.4			
2015	29-Apr-15	0	0.9	148.4			2136.5			
2015	29-Apr-15	1	0	214.7			2120.2			
2015	29-Apr-15	2	0	157			2157.3			
2015	29-Apr-15	3	0	127			2141.1			
2015	29-Apr-15	4	0	218.9			2554.1			
2015	29-Apr-15	5	0	674.5			3465.5			
2015	29-Apr-15	6	5.5	855.5			3682.7			
2015	29-Apr-15	7	2	822.9			3729.3			
2015	29-Apr-15	8	1	375.3			3572.7			
2015	29-Apr-15	9	0	334			2995.6			
2015	29-Apr-15	10	0	229.5			2708.2			
2015	29-Apr-15	11	36.4	287.8			2667			
2015	29-Apr-15	12	63.7	409.6			2895.7			
2015	29-Apr-15	13	111.8	725.7			3124.3			
2015	29-Apr-15	14	0.9	530.2			2887.2			
2015	29-Apr-15	15	0	463.8			2705			
2015	29-Apr-15	16	1.8	186			2432.9			
2015	29-Apr-15	17	41.1	284.6			2275			
2015	29-Apr-15	18	322.8	283.7			2248.7			
2015	29-Apr-15	19	939.3	311.8			2216.4			
2015	29-Apr-15	20	204.8	253.4			2328			
2015	29-Apr-15	21	180.6	254.4			2259.6			
2015	29-Apr-15	22	260.4	218.7			2276.2			
2015	29-Apr-15	23	134.1	136.6			2262.4			
2015	30-Apr-15	0	133.7	107			2248.8			
2015	30-Apr-15	1	123.4	73.803			2267.4			
2015	30-Apr-15	2	120				2251.3			
2015	30-Apr-15	3	116				2288.7			
2015	30-Apr-15	4	159.9				2560.6			
2015	30-Apr-15	5	261.1				3099.8			
2015	30-Apr-15	6	361.2				3506.7			
2015	30-Apr-15	7	303.5				3238			
2015	30-Apr-15	8	269.9				2963.5			
2015	30-Apr-15	9	184.7				2614.5			
2015	30-Apr-15	10	128.9				2406.5			
2015	30-Apr-15	11	95.4				2260.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	30-Apr-15	12	82.9				2264.2			
2015	30-Apr-15	13	86				2502.8			
2015	30-Apr-15	14	100.7				2589.3			
2015	30-Apr-15	15	95.9				2311.3			
2015	30-Apr-15	16	98.4				2363.8			
2015	30-Apr-15	17	127.4				2788.2			
2015	30-Apr-15	18	169.1				2976.7			
2015	30-Apr-15	19	162.5				2916.3			
2015	30-Apr-15	20	154				2776.1			
2015	30-Apr-15	21	118.6				2652.2			
2015	30-Apr-15	22	93.9				2528.8			
2015	30-Apr-15	23	100.4				2231.7			
2015	1-May-15	0	114.2				2204.7			
2015	1-May-15	1	113.7				2212.1			
2015	1-May-15	2	120				2240.8			
2015	1-May-15	3	115.2				2230.2			
2015	1-May-15	4	145.1				2549.5			
2015	1-May-15	5	352.9				3484.3			
2015	1-May-15	6	424.5				3692.8			
2015	1-May-15	7	338				3479.7			
2015	1-May-15	8	329.2				3540.8			
2015	1-May-15	9	254.2				3382.8			
2015	1-May-15	10	320				3499.7			
2015	1-May-15	11	302.3				3533.2			
2015	1-May-15	12	373.2				3562.4			
2015	1-May-15	13	461.4				3516.4			
2015	1-May-15	14	355.1				3362.5			
2015	1-May-15	15	293.3				2999.4			
2015	1-May-15	16	224.6				2605.6			
2015	1-May-15	17	171.6		0.051		2410.8			
2015	1-May-15	18	130.2		0.044		2354.4			
2015	1-May-15	19	106		0.059		2344.8			
2015	1-May-15	20	97.8		0.069		2410.9			
2015	1-May-15	21	100.2		0.088		2374.5			
2015	1-May-15	22	93.8		0.099		2300.7			
2015	1-May-15	23	95.1		0.091		1923.4			
2015	2-May-15	0	90.8		0.067		660.9			
2015	2-May-15	1	92.1		0.067		217.38			
2015	2-May-15	2	90.9		0.042					
2015	2-May-15	3	94		0.058					
2015	2-May-15	4	90.2		0.077					
2015	2-May-15	5	87.4		0.067					
2015	2-May-15	6	96.5		0.067					
2015	2-May-15	7	104		0.067					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	2-May-15	8	92.9		0.066					
2015	2-May-15	9	86		0.066					
2015	2-May-15	10	80.3		0.066					
2015	2-May-15	11	102.2		0.059					
2015	2-May-15	12	150.6		0.049					
2015	2-May-15	13	163.6							
2015	2-May-15	14	143.1							
2015	2-May-15	15	113.1							
2015	2-May-15	16	94.6							
2015	2-May-15	17	95							
2015	2-May-15	18	70							
2015	2-May-15	19	109.5							
2015	2-May-15	20	127.1							
2015	2-May-15	21	102							
2015	2-May-15	22	98.1							
2015	2-May-15	23	102.2							
2015	3-May-15	0	103.5							
2015	3-May-15	1	102.5							
2015	3-May-15	2	96.2							
2015	3-May-15	3	106.8							
2015	3-May-15	4	105.6							
2015	3-May-15	5	105							
2015	3-May-15	6	108.3							
2015	3-May-15	7	117.2							
2015	3-May-15	8	116.1							
2015	3-May-15	9	113.3							
2015	3-May-15	10	114.6							
2015	3-May-15	11	113.3							
2015	3-May-15	12	110.4							
2015	3-May-15	13	108.6							
2015	3-May-15	14	116.7							
2015	3-May-15	15	130.7							
2015	3-May-15	16	185.7							
2015	3-May-15	17	215							
2015	3-May-15	18	280.3							
2015	3-May-15	19	354.3							
2015	3-May-15	20	432.7							
2015	3-May-15	21	315.3							
2015	3-May-15	22	195.2							
2015	3-May-15	23	150.1							
2015	4-May-15	0	126.4							
2015	4-May-15	1	122.2							
2015	4-May-15	2	118.8		0.004					
2015	4-May-15	3	121.8		0.066					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	4-May-15	4	116.3		0.066					
2015	4-May-15	5	149.1		0.07					
2015	4-May-15	6	442.7		0.083					
2015	4-May-15	7	732.3		0.066					
2015	4-May-15	8	741.4		0.066					
2015	4-May-15	9	770		0.088					
2015	4-May-15	10	776.1		0.198					
2015	4-May-15	11	785.9		0.251					
2015	4-May-15	12	809.5		0.243					
2015	4-May-15	13	651.1		0.224					
2015	4-May-15	14	728.2		0.253					
2015	4-May-15	15	707.5		0.258					
2015	4-May-15	16	684.3		0.226					
2015	4-May-15	17	629.8		0.223					
2015	4-May-15	18	625		0.219					
2015	4-May-15	19	766.5		0.23					
2015	4-May-15	20	647.1	2.964	0.317					
2015	4-May-15	21	434.6	4.5	0.219					
2015	4-May-15	22	365	4.5	0.221					
2015	4-May-15	23	351.9	4.5	0.222					
2015	5-May-15	0	256	10.4	0.222					
2015	5-May-15	1	167.5	9.5	0.222					
2015	5-May-15	2	109	7.2	0.223					
2015	5-May-15	3	96.6	8.5	0.223					
2015	5-May-15	4	98.6	9.1	0.222					
2015	5-May-15	5	109	7.9	0.222					
2015	5-May-15	6	119.8	17	0.222					
2015	5-May-15	7	132.5	13.5	0.221					
2015	5-May-15	8	133.2	10.2	0.221					
2015	5-May-15	9	133	65.4	0.221					
2015	5-May-15	10	130	117.6	0.221					
2015	5-May-15	11	126.8	318	0.247					
2015	5-May-15	12	122.5	314.6	0.24					
2015	5-May-15	13	142.9	661.2	0.23					
2015	5-May-15	14	145.5	700.1	0.244					
2015	5-May-15	15	161.5	198.9	0.22					
2015	5-May-15	16	124.1	155	0.22					
2015	5-May-15	17	121.1	165.6	0.223					
2015	5-May-15	18	124.3	168.1	0.223					
2015	5-May-15	19	142.6	192.9	0.26					
2015	5-May-15	20	130.8	170.3	0.225					
2015	5-May-15	21	110	139	0.223					
2015	5-May-15	22	106.4	94.5	0.223					
2015	5-May-15	23	111.1	86	0.04					



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	6-May-15	0	107.9	88.9						
2015	6-May-15	1	111.2	85.3						
2015	6-May-15	2	110	81.2						
2015	6-May-15	3	114	84.6						
2015	6-May-15	4	110.7	77.6						
2015	6-May-15	5	107.3	79.1						
2015	6-May-15	6	109.9	82.2						
2015	6-May-15	7	119	78.7						
2015	6-May-15	8	111.9	76.6						
2015	6-May-15	9	109.9	84.1						
2015	6-May-15	10	123.2	86.3						
2015	6-May-15	11	143.2	108.9						
2015	6-May-15	12	347.3	300.2						
2015	6-May-15	13	688.1	639.8	0.042					
2015	6-May-15	14	763.8	702.4	0.07					
2015	6-May-15	15	815.2	726.7	0.077					
2015	6-May-15	16	824.9	665.7	0.054					
2015	6-May-15	17	833.6	692.3	0.056					
2015	6-May-15	18	848.5	624.8	0.069					
2015	6-May-15	19	818.6	575.6	0.066					
2015	6-May-15	20	746.1	478.8	0.053					
2015	6-May-15	21	537.7	296.6	0.053		0			
2015	6-May-15	22	321.9	153.3	0.066		0			
2015	6-May-15	23	221.1	86.4	0.068		52.2			
2015	7-May-15	0	166.8	82.2	0.068		371.3			
2015	7-May-15	1	125.2	86.2	0.058		524.9			
2015	7-May-15	2	116.6	77.7	0.068		539.3			
2015	7-May-15	3	112.6	79.6	0.068		604.2			
2015	7-May-15	4	110.8	80.4	0.068		655			
2015	7-May-15	5	108.6	82.1	0.067		1416.7			
2015	7-May-15	6	120.5	91.9	0.067		2044.9			
2015	7-May-15	7	115.3	85.8	0.058		2253.4			
2015	7-May-15	8	129.2	81.7	0.005		2279.6			
2015	7-May-15	9	126.3	93.7			2379.5			
2015	7-May-15	10	127.1	90.9			2559.4			
2015	7-May-15	11	125.5	90.4			2564.6			
2015	7-May-15	12	126.6	94.3			2896.3			
2015	7-May-15	13	144.4	102.7			3237.6			
2015	7-May-15	14	175.9	132.3			3482.7			
2015	7-May-15	15	267.9	220.8			3665			
2015	7-May-15	16	454.8	365			3794.2			
2015	7-May-15	17	721.7	499.9			3688			
2015	7-May-15	18	532.3	408.3			3398.6			
2015	7-May-15	19	382.9	336.2			3130.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	7-May-15	20	385	356.3	0.005		3217.4			
2015	7-May-15	21	233.2	227	0.067		2892.4			
2015	7-May-15	22	154.1	134.8	0.072		2420.2			
2015	7-May-15	23	127.1	104.9	0.067		2309.5			
2015	8-May-15	0	133.9	82.1	0.066		2311.8			
2015	8-May-15	1	129.7	88.8	0.066		2314.2			
2015	8-May-15	2	126.6	87.7	0.066		2300.5			
2015	8-May-15	3	123.5	89.9	0.058		2283.8			
2015	8-May-15	4	117.3	87.9	0.055		2277			
2015	8-May-15	5	122.3	102	0.078		2360.5			
2015	8-May-15	6	123.3	103.5	0.153		2282.3			
2015	8-May-15	7	121	100.1	0.235		2253.1			
2015	8-May-15	8	119	91.8	0.232		2439.5			
2015	8-May-15	9	115.2	96.3	0.232		2535.1			
2015	8-May-15	10	114.4	99.4	0.242		2882.9			
2015	8-May-15	11	120.9	101.5	0.248		3134.1			
2015	8-May-15	12	210.4	161.5	0.471		3537.5			
2015	8-May-15	13	194.3	328.8	0.449		3647.6			
2015	8-May-15	14	309	365.3	0.298		3730.3			
2015	8-May-15	15	400.7	316.5	0.455		3897.3			
2015	8-May-15	16	376.1	281.7	0.337		3860.9			
2015	8-May-15	17	285.9	183.8	0.228		3600.6			
2015	8-May-15	18	194	139.3	0.229		3131.8			
2015	8-May-15	19	223.6	153.2	0.312		3235.1			
2015	8-May-15	20	196.9	148.8	0.28		3350.1			
2015	8-May-15	21	146.3	115.5	0.229		2844.3			
2015	8-May-15	22	116	100.8	0.228		2462.5			
2015	8-May-15	23	120.1	108.6	0.228		2408.7			
2015	9-May-15	0	120.1	101.4	0.229		2378.2			
2015	9-May-15	1	119.4	109.3	0.229		2367.2			
2015	9-May-15	2	120	103.1	0.229		2371.9			
2015	9-May-15	3	120	103.5	0.23		2326.1			
2015	9-May-15	4	110.8	95	0.229		2361.3			
2015	9-May-15	5	110	99.9	0.229		2376.1			
2015	9-May-15	6	108.5	114.4	0.183		2376.8			
2015	9-May-15	7	109.9	115.5			2325			
2015	9-May-15	8	102.5	96.9			2360.8			
2015	9-May-15	9	105.4	105.1			2361.7			
2015	9-May-15	10	115.2	114.7			2453.2			
2015	9-May-15	11	158.2	182.2			2684.7			
2015	9-May-15	12	233.7	212.6			2934.4			
2015	9-May-15	13	248.7	336.8			2947.2			
2015	9-May-15	14	441.4	397.8			2985.7			
2015	9-May-15	15	675.5	630.5			3115.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	9-May-15	16	792.6	752.1			3496.1			
2015	9-May-15	17	781.9	773.5			3284.5			
2015	9-May-15	18	615.9	658.4			2968.6			
2015	9-May-15	19	637.2	580.9			2564.2			
2015	9-May-15	20	585.3	457.1			2580.2			
2015	9-May-15	21	408.1	304.3			2365.2			
2015	9-May-15	22	282.8	172.6			2308.8			
2015	9-May-15	23	219.3	136			2306			
2015	10-May-15	0	177.2	92.4			2322.5			
2015	10-May-15	1	118.8	96.5			2339.2			
2015	10-May-15	2	109.9	90.3			2336.1			
2015	10-May-15	3	128.8	91.6			2359.5			
2015	10-May-15	4	129.7	87.1			2349.9			
2015	10-May-15	5	133.7	88.1			2331.9			
2015	10-May-15	6	141	89			2330.4			
2015	10-May-15	7	118.2	82.4			2307.8			
2015	10-May-15	8	110.9	79.2			2336.2			
2015	10-May-15	9	114.4	101.4			2553.2			0
2015	10-May-15	10	122.9	94			2480			0
2015	10-May-15	11	155.8	164.8			2715.9			0
2015	10-May-15	12	199.5	153.1			2884			0
2015	10-May-15	13	170.9	167			2796.6			0
2015	10-May-15	14	162.8	158.9			2709.5			0
2015	10-May-15	15	157.2	281.8			2600.7			0
2015	10-May-15	16	251.7	367.9			2782.71			0
2015	10-May-15	17	383.2	672.3			3110.5			0
2015	10-May-15	18	469.4	665.2			2873.6			0
2015	10-May-15	19	533.1	730.5			2860.3			0
2015	10-May-15	20	727.5	751	0.061		3153.5			4.8
2015	10-May-15	21	537	643.8	0.066		2940.5			61.4
2015	10-May-15	22	364.5	407.3	0.076		2562.3			137.2
2015	10-May-15	23	319.3	258.5	0.078		2351.6			272.7
2015	11-May-15	0	198.6	176.4	0.087		2314			397.8
2015	11-May-15	1	127.7	161.6	0.087		2315.2			469
2015	11-May-15	2	114.7	95.6	0.087		2320.7			501.2
2015	11-May-15	3	105.7	88.3	0.123		2321.9			517.6
2015	11-May-15	4	107.1	87.5	0.232		2338.7			491.6
2015	11-May-15	5	104.8	87	0.233		2413.1			563.9
2015	11-May-15	6	102.4	96.9	0.227		2477.9			565
2015	11-May-15	7	99.2	104.5	0.227		2807.6			605.7
2015	11-May-15	8	97.1	101.1	0.227		2776.5			620.7
2015	11-May-15	9	116.5	112.3	0.227		3037.7			578.6
2015	11-May-15	10	128.1	131.4	0.241		3402.1			567.4
2015	11-May-15	11	176.8	212.2	0.456		3462.4			660.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	11-May-15	12	274.5	342	0.697		3564.6			735.5
2015	11-May-15	13	534.5	588.4	0.807		3852.1			733.9
2015	11-May-15	14	875.6	870.8	0.894		3933.4			726
2015	11-May-15	15	989	1056.7	0.854		3955.2			715.9
2015	11-May-15	16	966	1040.7	0.853		3935.9			710.7
2015	11-May-15	17	889.5	1099.1	0.809		3912			691.6
2015	11-May-15	18	808.4	1091.2	0.488		3807.1			601.3
2015	11-May-15	19	740.3	990.9	0.248		3623.6			534
2015	11-May-15	20	825.7	744.7	0.231		3496.6			465
2015	11-May-15	21	626.4	466.6	0.231		3044.9			398.6
2015	11-May-15	22	432.5	260.6	0.233		2570.1			421.7
2015	11-May-15	23	258.2	193	0.233		2321.4			421.6
2015	12-May-15	0	220.5	120.8	0.232		2339.3			415.1
2015	12-May-15	1	165.6	118.5	0.232		2344.5			414
2015	12-May-15	2	152.3	112.6	0.229		2354.6			420.5
2015	12-May-15	3	130.4	100.2	0.228		2370.4			417.3
2015	12-May-15	4	136.3	101.4	0.227		2388.4			409.8
2015	12-May-15	5	115.6	97.9	0.223		2420.1			413
2015	12-May-15	6	134	99.4	0.224		2436.8			418.2
2015	12-May-15	7	94	86.6	0.223		2361.9			427.8
2015	12-May-15	8	89.2	84.3	0.223		2520.2			390.4
2015	12-May-15	9	97.6	93.6	0.232		2508.7			403.4
2015	12-May-15	10	115.1	82.9	0.229		2807.3			420
2015	12-May-15	11	116.8	94	0.243		2936.8			438.6
2015	12-May-15	12	137.8	106.5	0.277		3385.1			427.1
2015	12-May-15	13	146.2	159.8	0.235		3617.5			438.2
2015	12-May-15	14	245.6	294.9	0.357		3809.3			553.1
2015	12-May-15	15	399.9	532.5	0.339		3882.5			567.1
2015	12-May-15	16	590.6	631.1	0.472		3987.9			634.4
2015	12-May-15	17	504.4	608.6	0.539		3916.3			470.1
2015	12-May-15	18	352.2	409	0.301		3555.9			479.5
2015	12-May-15	19	306.4	397.8	0.245		3432.2			441.5
2015	12-May-15	20	379.4	415	0.014		3706.6			404.6
2015	12-May-15	21	314.4	351.7			3399			386.6
2015	12-May-15	22	223.4	228			2986.9			380.4
2015	12-May-15	23	156.2	178.2			2593.5			456.6
2015	13-May-15	0	139.7	128.4			2392.5			368.4
2015	13-May-15	1	108.5	98.3			2402.4			172.1
2015	13-May-15	2	93.5	80.7			2398.7			72.865
2015	13-May-15	3	93.3	75.4			2388.2			
2015	13-May-15	4	88.9	87.6			2392.1			
2015	13-May-15	5	92.5	72.4			2383.8			
2015	13-May-15	6	114.2	96.9			2554			
2015	13-May-15	7	101.9	91.8			2567			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	13-May-15	8	97	94.8			2575.2			
2015	13-May-15	9	113.9	207.1			2543.8			
2015	13-May-15	10	115.4	225.3			2467.7			
2015	13-May-15	11	137.9	193.7			2414.2			
2015	13-May-15	12	329.9	209.3			2461.5			
2015	13-May-15	13	329.7	198.1			2484.2			
2015	13-May-15	14	354.8	193.2			2404.5			
2015	13-May-15	15	374.5	239.1			2623.3			
2015	13-May-15	16	348.8	268.4			2639.4			
2015	13-May-15	17	722	268.3			2586.7			
2015	13-May-15	18	660.1	433.8			2441.8			
2015	13-May-15	19	648.8	400.1			2458.3			
2015	13-May-15	20	654.3	443.9			2594.4			
2015	13-May-15	21	630.2	379.9			2410.7			
2015	13-May-15	22	616.9	381.7			2400.1			
2015	13-May-15	23	630.6	388.1			2394.3			
2015	14-May-15	0	683.2	380.8			2386.1			
2015	14-May-15	1	627.1	421.8			2398.2			
2015	14-May-15	2	689.2	453.6			2391.7			
2015	14-May-15	3	686.7	483.7			2384.1			
2015	14-May-15	4	671.4	442			2385.9			
2015	14-May-15	5	669.6	455.7			2401			
2015	14-May-15	6	663.9	518.6			2721.8			
2015	14-May-15	7	641	435.6			2495.7			
2015	14-May-15	8	672.3	393.6			2779.3			
2015	14-May-15	9	695.3	526.9			2881.5			
2015	14-May-15	10	684.7	520.5			2890.4			
2015	14-May-15	11	640.8	553.7			2969.8			
2015	14-May-15	12	801.2	640.8			3390.1			
2015	14-May-15	13	718.5	632.6			3342.1			
2015	14-May-15	14	749.1	887.3			3505.8			
2015	14-May-15	15	740.6	977.3			3578.1			
2015	14-May-15	16	718.5	835			3146.4			
2015	14-May-15	17	746.3	825.2			2945.7			
2015	14-May-15	18	761.6	741			2859.4			
2015	14-May-15	19	411.9	790.5			2831.5			
2015	14-May-15	20	322.4	827			2883.9			
2015	14-May-15	21	285.8	670.7			2486.1			
2015	14-May-15	22	295.4	607.4			2339.1			
2015	14-May-15	23	296.2	503.6			2324.3			
2015	15-May-15	0	294.9	463.3			2317.6			
2015	15-May-15	1	284.4	480.3			2322			
2015	15-May-15	2	292.4	469.6			2301.8			
2015	15-May-15	3	293.3	462.6			2322.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	15-May-15	4	294.5	459.2			2324.9			
2015	15-May-15	5	290.2	467.1			2326.4			
2015	15-May-15	6	299.1	478.7			2336.3			
2015	15-May-15	7	286.5	480.6			2337.7			
2015	15-May-15	8	351.2	597.4			2810			
2015	15-May-15	9	367.5	842.3			2970.3			
2015	15-May-15	10	352.3	1187.3			3154.1			
2015	15-May-15	11	422.2	682.2			3486.3			
2015	15-May-15	12	354.1	633.1			3457.7			
2015	15-May-15	13	402.3	684.7			3554.9			
2015	15-May-15	14	637.8	633.5			3576			
2015	15-May-15	15	810.4	643.2			3664.5			
2015	15-May-15	16	579.2	526.3			3572.8			
2015	15-May-15	17	811.7	591.3			3329.2			
2015	15-May-15	18	829.2	467.4			3016.2			
2015	15-May-15	19	709.9	578.6			2742.2			
2015	15-May-15	20	756.2	781.9			2864.6			
2015	15-May-15	21	439.5	1109			3059.9			
2015	15-May-15	22	508.8	766.1			2776.7			
2015	15-May-15	23	766.9	464.1			2482.6			
2015	16-May-15	0	664.6	383.6			2405.1			
2015	16-May-15	1	634.4	366.8			2400.7			
2015	16-May-15	2	614.3	334.7			2394			
2015	16-May-15	3	634.5	339			2419.9			
2015	16-May-15	4	834.2	750.6			2417.2			
2015	16-May-15	5	1116.1	1324.5			2413.6			
2015	16-May-15	6	835	1198			2424.2			
2015	16-May-15	7	652.3	1198.3			2407.4			
2015	16-May-15	8	659.8	710.8			2491.7			
2015	16-May-15	9	691.4	992.6			2428.1			
2015	16-May-15	10	763.3	815.1			2523.3			
2015	16-May-15	11	941.3	1096.6			2838.2			
2015	16-May-15	12	1098	1306.9			3335.2			
2015	16-May-15	13	1020.4	1404			3456.4			
2015	16-May-15	14	1344.8	932.8			3667			
2015	16-May-15	15	1522.6	1133.4			3728.3			
2015	16-May-15	16	643.5	1071.9			3637.5			
2015	16-May-15	17	536.6	1282			3612.5			
2015	16-May-15	18	334.6	590.2			3431.3			
2015	16-May-15	19	428.6	550.2			3225.4			
2015	16-May-15	20	593.9	356.3			3108.3			
2015	16-May-15	21	400.8	525.4			2946			
2015	16-May-15	22	478.2	702.7			2824.6			
2015	16-May-15	23	638.9	622.8			2530.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	17-May-15	0	688	634.8			2435.1			
2015	17-May-15	1	629.5	602.6			2407.6			
2015	17-May-15	2	659.3	583.7			2397.9			
2015	17-May-15	3	631.6	594			2412.6			
2015	17-May-15	4	520.4	519.2			2406.8			
2015	17-May-15	5	541.3	571.8			2419.7			
2015	17-May-15	6	599.2	644.4			2421			
2015	17-May-15	7	606.2	609.5			2365.2			
2015	17-May-15	8	609.2	603.3			2429.4			
2015	17-May-15	9	568.4	616.1			2389.5			
2015	17-May-15	10	633.3	611.5			2606.5			
2015	17-May-15	11	689.7	618.6			2793.2			
2015	17-May-15	12	644.9	600.5			2834.6			
2015	17-May-15	13	606.7	595.7			2606.9			
2015	17-May-15	14	678.5	660.3			2876.4			
2015	17-May-15	15	717.5	714.8			3357.7			
2015	17-May-15	16	967.2	997.5			3632.3			
2015	17-May-15	17	720.3	697.2			3796.6			
2015	17-May-15	18	573	572.9			3686.6			
2015	17-May-15	19	504.1	605.1			3454.7			
2015	17-May-15	20	525.5	660.5			3634.1			
2015	17-May-15	21	393.5	422.4			3354.4			
2015	17-May-15	22	309.6	251.9			3152.6			
2015	17-May-15	23	282.1	211.8			2781.1			0
2015	18-May-15	0	291.1	213.1			2476.9			0
2015	18-May-15	1	582.7	388			2392.6			0
2015	18-May-15	2	646.1	462.9			2366.3			0
2015	18-May-15	3	689.6	456			2380.3			0
2015	18-May-15	4	917.2	624			2372.1			0
2015	18-May-15	5	723	599.7			2394.7			0
2015	18-May-15	6	839.7	759.3			2770.8			0
2015	18-May-15	7	723.7	687.6			2927.9			0
2015	18-May-15	8	715.4	551.1			2944.5			14.2
2015	18-May-15	9	1023.2	893.2			3383.2			56.5
2015	18-May-15	10	1040.1	907.8			3430.8			162
2015	18-May-15	11	1941.8	1494.6			3731.3			249.1
2015	18-May-15	12	1876.8	1803.8			3891.8			410.4
2015	18-May-15	13	1516.6	1169.6			3930.2			535.3
2015	18-May-15	14	1167.2	876.7	0.228		3970.9			673.5
2015	18-May-15	15	1356.7	897.9	0.846		3983.9			457.5
2015	18-May-15	16	1314	1029.5	0.847		3943.6			471.2
2015	18-May-15	17	1318.8	990.1	0.849		3932.3			463.8
2015	18-May-15	18	1313.6	856.7	0.848		3930.3			454.6
2015	18-May-15	19	1038.3	903.1	0.847		3952.6			454.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	18-May-15	20	1195.1	854.2	0.79		3941.7			450.1
2015	18-May-15	21	1142.2	883.3	0.458		3921.2			438
2015	18-May-15	22	688.9	475.3	0.251		3759.7			440
2015	18-May-15	23	567.5	438.2	0.236		3415.5			434.6
2015	19-May-15	0	428.2	215.2	0.235		3107.4			431.2
2015	19-May-15	1	479.8	291.9	0.234		2785.8			439.5
2015	19-May-15	2	420.4	287.7	0.233		2852.5			424.8
2015	19-May-15	3	521.4	401.8	0.233		2524.5			426.6
2015	19-May-15	4	1018.8	440.6	0.233		2360.2			424.2
2015	19-May-15	5	1163.6	441	0.234		2358.9			421.5
2015	19-May-15	6	948.6	511.7	0.233		2520.3			416.4
2015	19-May-15	7	1038.9	656.6	0.368		3022.7			419.1
2015	19-May-15	8	987.1	746	0.804		3590.1			417.3
2015	19-May-15	9	976.6	1660	0.849		3833.3			416.4
2015	19-May-15	10	1064.8	856.8	0.843		3889.7			420.4
2015	19-May-15	11	989.8	832.1	0.844		3892.6			419.6
2015	19-May-15	12	915.4	809	0.844		3899.8			427.4
2015	19-May-15	13	936	843.7	0.847		3918.7			454.3
2015	19-May-15	14	845.3	771.1	0.846		3946.7			433.6
2015	19-May-15	15	1638	804.9	0.846		3948			411.8
2015	19-May-15	16	936	687.9	0.846		3915.5			256.4
2015	19-May-15	17	1021.6	823.1	0.846		3898			413.3
2015	19-May-15	18	715.4	796.2	0.672		3897.1			445.5
2015	19-May-15	19	524.3	741.6	0.324		3871.3			446.5
2015	19-May-15	20	464.9	555.9			3859			460.5
2015	19-May-15	21	303.4	329.9			3665.1			448.7
2015	19-May-15	22	317.7	239			3227.2			398.7
2015	19-May-15	23	955.2	458.4			2824.2			202
2015	20-May-15	0	387.5	582.4			2470.3			12.581
2015	20-May-15	1	292.4	531.5			2399.3			
2015	20-May-15	2	344.7	576.7			2383			
2015	20-May-15	3	311.9	593.2			2430.9			
2015	20-May-15	4	303.7	537.3			2431.5			
2015	20-May-15	5	292	557.1			2404.2			
2015	20-May-15	6	283.8	541			2572.9			
2015	20-May-15	7	465.8	891.7			2549.8			
2015	20-May-15	8	652.6	787.6			2682.8			
2015	20-May-15	9	660.5	812.3			2619.8			
2015	20-May-15	10	940.7	753.7			2589.5			
2015	20-May-15	11	1169.6	814.1			2506.2			
2015	20-May-15	12	1230.5	792.3			2766			
2015	20-May-15	13	1273.3	912			2880.9			
2015	20-May-15	14	1102.3	1007.5			3317.6			
2015	20-May-15	15	1002	1370			3599.3			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	20-May-15	16	801.2	620.7			3329			
2015	20-May-15	17	746.4	655			3129.6			
2015	20-May-15	18	590.8	422.7			2663.2			
2015	20-May-15	19	627.3	1114.2			2753			
2015	20-May-15	20	680.7	624.4			2903.5			
2015	20-May-15	21	982.6	397.2			2537			
2015	20-May-15	22	554.8	638.2			2433.3			
2015	20-May-15	23	350.001	647.3			2419.5			
2015	21-May-15	0		567.1			2428.4			
2015	21-May-15	1		485			2435.7			
2015	21-May-15	2		513.9			2420.9			
2015	21-May-15	3		511.2			2426.4			
2015	21-May-15	4		500.2			2435.9			
2015	21-May-15	5		483.6			2392.7			
2015	21-May-15	6		558.5			2509.5			
2015	21-May-15	7		537.7			2647.7			
2015	21-May-15	8		417.4			2841.2			
2015	21-May-15	9		459.1			2885.8			
2015	21-May-15	10		404.9			2914.9			
2015	21-May-15	11		399.2			2873.3			
2015	21-May-15	12		368			2680.7			
2015	21-May-15	13		381			2461.3			
2015	21-May-15	14		367.9			2422.1			
2015	21-May-15	15		407.9			2429.9			
2015	21-May-15	16		411.2			2490.4			
2015	21-May-15	17		404.6			2417.3			
2015	21-May-15	18		406			2421.4			
2015	21-May-15	19		424.4			2356			
2015	21-May-15	20		431.9			2397.2			
2015	21-May-15	21		421.8			2338.9			
2015	21-May-15	22		433.1			2374.4			
2015	21-May-15	23		451.3			2352.1			
2015	22-May-15	0		441.5			2388.1			
2015	22-May-15	1		463.5			2383.3			
2015	22-May-15	2		462.7			2383.5			
2015	22-May-15	3		445.9			2391			
2015	22-May-15	4		448.1			2388.3			
2015	22-May-15	5		444.5			2349.7			
2015	22-May-15	6		483.2			2577.6			
2015	22-May-15	7		462.3			2464.2			
2015	22-May-15	8		435			2365.7			
2015	22-May-15	9		449.2			2396.2			
2015	22-May-15	10		449.1			2527			
2015	22-May-15	11		422.9			2398.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	22-May-15	12		426.2			2386.7			
2015	22-May-15	13		410.7			2383.9			
2015	22-May-15	14		398.1			2414.9			
2015	22-May-15	15		649.6			2634.1			
2015	22-May-15	16		652.2			2608.9			
2015	22-May-15	17		657.3			2501.7			
2015	22-May-15	18		691			2505.7			
2015	22-May-15	19		698.4			2363.6			
2015	22-May-15	20		684.7			2368.6			
2015	22-May-15	21		208.5			2402.8			
2015	22-May-15	22		162.3			2408.9			
2015	22-May-15	23		512.2			2423.5			
2015	23-May-15	0		476.8			2404.2			
2015	23-May-15	1		466.5			2386.8			
2015	23-May-15	2		447.1			2391.4			
2015	23-May-15	3		424.6			2393.7			
2015	23-May-15	4		411.2			2383.6			
2015	23-May-15	5		402.8			2349.4			
2015	23-May-15	6		417.4			2367.2			
2015	23-May-15	7		412.6			2351.4			
2015	23-May-15	8		402.5			2358.6			
2015	23-May-15	9		395.1			2360			
2015	23-May-15	10		405.9			2365.2			
2015	23-May-15	11		419.5			2352.7			
2015	23-May-15	12		427.8			2398.3			
2015	23-May-15	13		456.2			2506.2			
2015	23-May-15	14		525.7			2826.9			
2015	23-May-15	15		523.5			2996.4			
2015	23-May-15	16		522.1			2940.2			
2015	23-May-15	17		501.9			2898.2			
2015	23-May-15	18		484.2			2728.4			
2015	23-May-15	19		465			2403.1			
2015	23-May-15	20		458.8			2371.9			
2015	23-May-15	21		473.9			2383.5			
2015	23-May-15	22		485.3			2340.3			
2015	23-May-15	23		470.7			2354.7			
2015	24-May-15	0		477.4			2369.8			
2015	24-May-15	1		485.7			2386.1			
2015	24-May-15	2		479.3			2379			
2015	24-May-15	3		478			2371.9			
2015	24-May-15	4		477.7			2373.4			
2015	24-May-15	5		475			2327.6			
2015	24-May-15	6		487.6			2368.9			
2015	24-May-15	7		458.3			2357.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	24-May-15	8		466.7			2355.3			
2015	24-May-15	9		472.5			2347.6			
2015	24-May-15	10		460.4			2357.7			
2015	24-May-15	11	0	458.5			2396.6			
2015	24-May-15	12	0	629.6			2690.1			
2015	24-May-15	13	0	911.9			2944			
2015	24-May-15	14	0	593.1			2936.1			
2015	24-May-15	15	0	400.8			2769.7			
2015	24-May-15	16	0	359.7			2634.5			
2015	24-May-15	17	0	454.3			2919.3			
2015	24-May-15	18	0	365.2			2643.2			
2015	24-May-15	19	0	278.9			2378.5			
2015	24-May-15	20	0	281			2343.4			
2015	24-May-15	21	0	269.5			2347.5			
2015	24-May-15	22	0	218.8			2351.5			
2015	24-May-15	23	0	215.4			2348.6			
2015	25-May-15	0	0	299.8			2346.5			
2015	25-May-15	1	0	535.6			2345.9			
2015	25-May-15	2	0	523.6			2341			
2015	25-May-15	3	0	515.4			2343.8			
2015	25-May-15	4	0	525.5			2332.2			
2015	25-May-15	5	0	515.8			2294.9			
2015	25-May-15	6	0.9	524.9			2329.3			
2015	25-May-15	7	0	540.7			2326.8			
2015	25-May-15	8	0	542.8		0	2320.6			
2015	25-May-15	9	0	546.3		0	2324.1			
2015	25-May-15	10	0	549.5		0.5	2336.4			
2015	25-May-15	11	0	527.8		0	2472.4			
2015	25-May-15	12	0	596.4		0	2638.8			
2015	25-May-15	13	3.8	750.9		0	2849.1			
2015	25-May-15	14	5.3	629.8		0	2992.6			
2015	25-May-15	15	17.7	654.7		0	3220.5			
2015	25-May-15	16	44.1	726.4		0	3376.1			
2015	25-May-15	17	114.1	723.6		0	3417			
2015	25-May-15	18	189.5	641.8		0	3320.4			0
2015	25-May-15	19	346.8	606.7		0	2961			0
2015	25-May-15	20	781	638.2		0	2832.8			0
2015	25-May-15	21	526.4	532.6		0	2498.6			0
2015	25-May-15	22	641.2	460.7		0	2385.1			0
2015	25-May-15	23	935.9	433.4		0	2365.6			0
2015	26-May-15	0	887.7	421.8		0	2379.9			3.9
2015	26-May-15	1	1051.9	480.4	0.072	0	2373			0
2015	26-May-15	2	930.3	490.2	0.066	0	2363.1			0
2015	26-May-15	3	822.3	504.4	0.069	7.6	2353.2			0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	26-May-15	4	531.1	709.7	0.079	174.4	2347.3			0
2015	26-May-15	5	346.3	1095.5	0.083	500.3	2321.9			0
2015	26-May-15	6	365.4	840	0.072	551.7	2353.3			22.4
2015	26-May-15	7	330.5	900.9	0.057	471.8	2358.8			161.8
2015	26-May-15	8	325.7	921.5	0.087	435.1	2374.2			390.8
2015	26-May-15	9	429.1	958.9	0.087	412.2	2802.2			438
2015	26-May-15	10	859.2	1614.8	0.18	393.1	2966.2			448.9
2015	26-May-15	11	509.9	1215.4	0.244	403	3167.6			470.6
2015	26-May-15	12	646	1051.4	0.271	416.6	3586.8			523.6
2015	26-May-15	13	993.2	1035.2	0.234	411.5	3673			482.5
2015	26-May-15	14	1063.6	1094.9	0.231	412	3786			447.4
2015	26-May-15	15	941.5	1147.6	0.285	412.2	3946			524.9
2015	26-May-15	16	1062	1106.8	0.243	415.9	3972.3			497.3
2015	26-May-15	17	1095.8	1104.2	0.231	407.8	3964.9			440.8
2015	26-May-15	18	923.5	1112.2	0.231	403.4	3860.2			435
2015	26-May-15	19	497.2	1077.4	0.139	397.9	3543.2			432.6
2015	26-May-15	20	523.7	898.5		25.335	3478.2			431.3
2015	26-May-15	21	652.3	704.6			3241.8			427.4
2015	26-May-15	22	451.1	460.5			2893.2			429.4
2015	26-May-15	23	303	412.8			2698.7			437.9
2015	27-May-15	0	290.9	278.4			2408.2			446.2
2015	27-May-15	1	291.2	208.9			2392.5			463.2
2015	27-May-15	2	285.9	168.8			2375.2			462.1
2015	27-May-15	3	278.9	124.9			2376.7			457.5
2015	27-May-15	4	264.2	107.7			2372.4			451
2015	27-May-15	5	275	117.4			2339.5			445.7
2015	27-May-15	6	281.4	177.2	0.052		2368.8			444.7
2015	27-May-15	7	282.4	177.3	0.067		2393.3			106.675
2015	27-May-15	8	394.1	241.7	0.067		2740			
2015	27-May-15	9	513.8	384.3	0.068		3132.5			
2015	27-May-15	10	438.2	475.2	0.096		3253.2			
2015	27-May-15	11	494.1	450.5	0.237		3199.8			
2015	27-May-15	12	822.3	660.9	0.225		3491			
2015	27-May-15	13	618.9	882.2	0.228		3406.2			
2015	27-May-15	14	567.1	989.2	0.23		3369.2			
2015	27-May-15	15	962.8	1569.7	0.263		3658.6			
2015	27-May-15	16	1020.6	1593.2	0.232		3628.7			
2015	27-May-15	17	1068.9	1515.7	0.234		3593.4			
2015	27-May-15	18	1417	1641.2	0.241		3571.5			
2015	27-May-15	19	1521.8	1015.7	0.227		3411			
2015	27-May-15	20	1560.6	951.7	0.022		3557.1			
2015	27-May-15	21	1057.4	609.6			3379.2			
2015	27-May-15	22	735.9	563.2			3164.6			
2015	27-May-15	23	421	546.3			2793.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	28-May-15	0	347.2	545.4			2466.5			
2015	28-May-15	1	287.9	485.8			2367.2			
2015	28-May-15	2	295.7	422.1			2355.8			
2015	28-May-15	3	289.8	451.1			2363.3			
2015	28-May-15	4	286.8	438.1			2346.3			
2015	28-May-15	5	293.4	413			2305			
2015	28-May-15	6	253	446.7			2345.3			
2015	28-May-15	7	242.6	407.8			2338.5			
2015	28-May-15	8	259.8	418.2			2534.9			
2015	28-May-15	9	306.7	454.7			2934.9			
2015	28-May-15	10	415.9	635.2			3404.5			
2015	28-May-15	11	616	1075.1			3568.3			
2015	28-May-15	12	998.3	1026.6			3835			
2015	28-May-15	13	1158.5	1256			3897.2			
2015	28-May-15	14	999.6	1505.3			3922.5			
2015	28-May-15	15	996.6	1212.4			3911.8			
2015	28-May-15	16	938.6	983.7			3930.5			
2015	28-May-15	17	847.7	957.6			3942.1			
2015	28-May-15	18	747.8	878.1			3914.9			
2015	28-May-15	19	613.5	819.9			3662.5			
2015	28-May-15	20	873.5	903.6			3861.2			
2015	28-May-15	21	479.7	492.5			3750.7			
2015	28-May-15	22	420.6	333			3416.1			
2015	28-May-15	23	481.2	214.2			3135.5			
2015	29-May-15	0	327	163.3			2664.7			
2015	29-May-15	1	307	160.4			2448.4			
2015	29-May-15	2	313.5	160.9			2409.1			
2015	29-May-15	3	296.7	155.5			2394.9			
2015	29-May-15	4	310.5	171.4			2390.5			
2015	29-May-15	5	556.7	497.3			2364.9			
2015	29-May-15	6	1306.4	986.1			2407.3			
2015	29-May-15	7	1450.6	1059.1			2417.7			
2015	29-May-15	8	1005.7	847.2			2584			
2015	29-May-15	9	956.2	650.6			2890.3			
2015	29-May-15	10	1015.2	621.4			2961.6			
2015	29-May-15	11	1133.1	728			3059.3			
2015	29-May-15	12	1712.6	1083.1			3514			
2015	29-May-15	13	1041.4	1318.2			3635.1			
2015	29-May-15	14	871.1	1375.3			3781.7			
2015	29-May-15	15	1014	1446.9			3878.7			
2015	29-May-15	16	1011.4	1382.3			3912.6			
2015	29-May-15	17	1095.2	1632.3			3863.4			
2015	29-May-15	18	996.5	1581			3967.2			
2015	29-May-15	19	709.2	1380.3			3703.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	29-May-15	20	774.8	1480			3665.7			
2015	29-May-15	21	758	1186.2			3448.4			
2015	29-May-15	22	930.1	682.2			3192.4			
2015	29-May-15	23	757.3	1008.3			2697.2			
2015	30-May-15	0	583.4	697			2476.8			
2015	30-May-15	1	377.5	558.9			2454.1			
2015	30-May-15	2	267.8	518.6			2454.1			
2015	30-May-15	3	374.8	519.6			2453.1			
2015	30-May-15	4	703.7	529.8			2443.4			
2015	30-May-15	5	734.9	527.3			2416.7			
2015	30-May-15	6	867.1	644.4			2712.8			
2015	30-May-15	7	632.6	780.2			3260.3			
2015	30-May-15	8	587.8	597.9			3717.7			
2015	30-May-15	9	863.5	947.3			3934.6			
2015	30-May-15	10	1213.8	1201.3			3972.5			
2015	30-May-15	11	1621.4	1580.2			4020.5			
2015	30-May-15	12	1631.6	1669.4			3880.4			
2015	30-May-15	13	1396.3	1405.7			3855.5			
2015	30-May-15	14	957.7	897.3			4029.8			
2015	30-May-15	15	1045.6	975.2			4061.8			
2015	30-May-15	16	1009.4	891.3			4021.3			
2015	30-May-15	17	934.8	838			3899.9			
2015	30-May-15	18	864	741.1			3726.9			
2015	30-May-15	19	915.3	803.2			3828.3			
2015	30-May-15	20	894	761.3			3878.7			
2015	30-May-15	21	848.9	774			3732.1			
2015	30-May-15	22	672.9	482.5			3427.3			
2015	30-May-15	23	455.9	353.9			2956.7			
2015	31-May-15	0	259.6	170.1			2560.2		0	
2015	31-May-15	1	457.8	192.3			2429.1		1.1	
2015	31-May-15	2	738.7	455.1			2403.9		5.2	
2015	31-May-15	3	338.6	476			2403.6		15.9	
2015	31-May-15	4	251.2	496.9			2412.5		21.6	
2015	31-May-15	5	265.8	514.4			2348.9		24.2	
2015	31-May-15	6	338.4	597			2569.2		33.3	
2015	31-May-15	7	324	556			2675.9		34.2	
2015	31-May-15	8	482.8	747.1			3053.5		37.4	
2015	31-May-15	9	772.8	1119			3366.7		40	
2015	31-May-15	10	1049.7	553.7			3297.5		38.5	
2015	31-May-15	11	1379.3	641.3			3532.7		41.8	
2015	31-May-15	12	1029.2	820.1			3829.4		43.8	0
2015	31-May-15	13	1149.6	1234.8			3974.3		44.3	0
2015	31-May-15	14	1223	1627.5			3889.9		42.9	0
2015	31-May-15	15	1338.3	1545.1			3915.5		40.3	0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	31-May-15	16	1329.3	962.5			3929.9		40.3	0
2015	31-May-15	17	1267	827.5			3818.9		35.6	0
2015	31-May-15	18	814.7	473.1			3398.8		43.3	0
2015	31-May-15	19	653.9	420.1			3057.1		43.2	0
2015	31-May-15	20	710.7	594.4			3329.8		42.7	0
2015	31-May-15	21	1012.8	910.2			3426.1		43.1	0
2015	31-May-15	22	776	652.5			3125.9		41.5	0
2015	31-May-15	23	528	508.3			2696.9		38.1	0
2015	1-Jun-15	0	798.5	325.6			2387.1		33.7	2.5
2015	1-Jun-15	1	645.3	578.2	0.071		2397.5		34.1	70.3
2015	1-Jun-15	2	478.5	713.5	0.087		2389.4		33.5	175.3
2015	1-Jun-15	3	619.7	613.3	0.08		2546.5		33.9	309.7
2015	1-Jun-15	4	1058.3	736.6	0.067		2970.8		29.4	505.9
2015	1-Jun-15	5	895.7	615.6	0.067		2503.3		29.1	519.7
2015	1-Jun-15	6	840.9	622.5	0.075		2448.9		35.8	667
2015	1-Jun-15	7	1157.2	670.9	0.114		2870.1		31.4	634.7
2015	1-Jun-15	8	1350.3	1035.7	0.206		3463.7		9.5	590
2015	1-Jun-15	9	1349.4	1376.2	0.283		3848.3		2.04	588.5
2015	1-Jun-15	10	1313.5	1185.2	0.273		3921.6			568.1
2015	1-Jun-15	11	1402.7	1326	0.496		3932.8			694.3
2015	1-Jun-15	12	1421.1	1238	0.803		3986.2			766.1
2015	1-Jun-15	13	1451.9	1307	0.852		4020.1			764
2015	1-Jun-15	14	1449.5	1222.2	0.855		4032.2			771
2015	1-Jun-15	15	1460.8	1308.8	0.843		4026.8			773.1
2015	1-Jun-15	16	1375.6	1318.2	0.582		4042.9			764.7
2015	1-Jun-15	17	1383.9	1330.9	0.355		4103.4			765.8
2015	1-Jun-15	18	1141.1	1275.6	0.237		4061.5			765.5
2015	1-Jun-15	19	1259	1321.7			4066			757.4
2015	1-Jun-15	20	1158.8	1155			4078.8			745.8
2015	1-Jun-15	21	1171.4	1167.7			4087.5			734.1
2015	1-Jun-15	22	1137.2	1040.8			4111.7			728.5
2015	1-Jun-15	23	1154	1127			4096.3			568.6
2015	2-Jun-15	0	1071.8	888.3			4108.1			94.628
2015	2-Jun-15	1	877.9	898.5			4078.2			
2015	2-Jun-15	2	569.5	370.2			3646.7			
2015	2-Jun-15	3	443.6	306.9			3082.3			
2015	2-Jun-15	4	431.7	208.3			2990.8			
2015	2-Jun-15	5	944.6	714.1			3593.2			
2015	2-Jun-15	6	1182.9	1095.8			3973.3			
2015	2-Jun-15	7	1203.3	1355.5			4001			
2015	2-Jun-15	8	1211.6	430.5			3886.6			
2015	2-Jun-15	9	1278.9	703.1			3737.2			
2015	2-Jun-15	10	1327.7	406.3			3785.6			
2015	2-Jun-15	11	1284.6	754.8			3796.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	2-Jun-15	12	1092.3	602.1			3768.7			
2015	2-Jun-15	13	702.6	405.3			3460.2			
2015	2-Jun-15	14	664.9	240.2			3504.5			
2015	2-Jun-15	15	1014.3	353.2			3542.1			
2015	2-Jun-15	16	1252.2	313			3649.5			
2015	2-Jun-15	17	1300.7	439.3			3622.7			
2015	2-Jun-15	18	1135.1	241.2			3557.1			
2015	2-Jun-15	19	1059.2	344			3346.5			
2015	2-Jun-15	20	770.8	305.8			3390.1			
2015	2-Jun-15	21	721.9	500.2			3008.4			
2015	2-Jun-15	22	417.8	393.4			2541.2			
2015	2-Jun-15	23	318.3	335.2			2459.5			
2015	3-Jun-15	0	306.4	346.9			2431.9			
2015	3-Jun-15	1	314.1	376.4			2430.1			
2015	3-Jun-15	2	314.1	332.9			2425.2			
2015	3-Jun-15	3	305.9	334.6			2424.3			
2015	3-Jun-15	4	353.2	401.3			2474.7			
2015	3-Jun-15	5	608.5	621.2			3013.8			
2015	3-Jun-15	6	627.4	657.5			3517			
2015	3-Jun-15	7	644.8	675			3337.4			
2015	3-Jun-15	8	433.1	219.1			2892.5			
2015	3-Jun-15	9	381.8	335.3			3083.4			
2015	3-Jun-15	10	367.4	294.8			3201.2			
2015	3-Jun-15	11	344.5	301.1			3069.9			
2015	3-Jun-15	12	287.1	288.5			2816.8			
2015	3-Jun-15	13	297.3	314.4			2558			
2015	3-Jun-15	14	365.5	261.3			2946.1			
2015	3-Jun-15	15	363.5	298.7			3050			
2015	3-Jun-15	16	528	257.9			3147.8			
2015	3-Jun-15	17	687	294.9			3248.4			
2015	3-Jun-15	18	819.7	290.1			3163.8			
2015	3-Jun-15	19	1180.7	658.9			3761			
2015	3-Jun-15	20	939.6	339.5			3598.2			
2015	3-Jun-15	21	918.3	313.2			3122.9			
2015	3-Jun-15	22	648.1	280.4			2603.4			
2015	3-Jun-15	23	507	340.3			2411.1			
2015	4-Jun-15	0	406.9	257.6			2425			
2015	4-Jun-15	1	315.2	288.5			2514.8			
2015	4-Jun-15	2	393.5	333.6			2643.1			
2015	4-Jun-15	3	913.4	1172.7			2383.9			
2015	4-Jun-15	4	1359.7	1014.8			2365.7			
2015	4-Jun-15	5	1298.7	1166.3			2540.4			
2015	4-Jun-15	6	1228.9	1177.5			3231.8			
2015	4-Jun-15	7	1348.9	1067.3			3870.9			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	4-Jun-15	8	1075.3	792.8			3805.6			
2015	4-Jun-15	9	1115.2	990.3			3632.8			
2015	4-Jun-15	10	1013.7	872			3744.2			
2015	4-Jun-15	11	939.1	770.5			3677.1			
2015	4-Jun-15	12	1000	712.5			3865.6			0
2015	4-Jun-15	13	1138.2	900			3940.2			0
2015	4-Jun-15	14	917.5	528.5			3871			0.7
2015	4-Jun-15	15	686.6	643.9			3823.2			0
2015	4-Jun-15	16	846.3	676.9			3929.7			0
2015	4-Jun-15	17	1039.1	848.2			3993.1			0.6
2015	4-Jun-15	18	1070.1	678.3			3955.8			5.3
2015	4-Jun-15	19	858.7	749			3811.3			16.2
2015	4-Jun-15	20	567.1	352.7			3604.4			22.9
2015	4-Jun-15	21	698	416.8			3294.7			20.3
2015	4-Jun-15	22	682.1	115.4			3273.7			31.3
2015	4-Jun-15	23	514.2	222.5			2878.5			104.2
2015	5-Jun-15	0	70.604	160.6			2435.2			175.7
2015	5-Jun-15	1		198.3			2398.3			207.5
2015	5-Jun-15	2		191.2			2409.6			404.3
2015	5-Jun-15	3		204			2391.4			528.4
2015	5-Jun-15	4		143.073		0	2570.3			526.9
2015	5-Jun-15	5		2.72		0	3698.3			611.7
2015	5-Jun-15	6		4.9		0	3946.3			734.6
2015	5-Jun-15	7		2.5		0	3943.1			739.7
2015	5-Jun-15	8		71.2		0	3980.5			737.1
2015	5-Jun-15	9		171.2		0	3994.8			723.4
2015	5-Jun-15	10		215.7		0	3980.2			721.2
2015	5-Jun-15	11		270.2		0	3982.7			722.3
2015	5-Jun-15	12		334		0	3965.7			723.7
2015	5-Jun-15	13		511.5	0.005	0	3940.7			717.3
2015	5-Jun-15	14		905	0.062	0	3937.7			712.7
2015	5-Jun-15	15		1011.5	0.067	0	3912.1			694.9
2015	5-Jun-15	16		954.6	0.066	0	3771.9			632.5
2015	5-Jun-15	17		566.6	0.065	0	3681.4			584.3
2015	5-Jun-15	18		531.5	0.087	0	3486.5			577.2
2015	5-Jun-15	19		350.1	0.068	0	3036.1			549.3
2015	5-Jun-15	20		253.1	0.066	0	2757.5			447.1
2015	5-Jun-15	21		207.7	0.124	56.5	2956			437.1
2015	5-Jun-15	22		176.7	0.224	222.3	2677.2			438.7
2015	5-Jun-15	23		151.6	0.24	385.1	2452.3			434.1
2015	6-Jun-15	0		160.7	0.23	397.8	2391.3			440.1
2015	6-Jun-15	1		245.1	0.229	400.1	2371.9			460.4
2015	6-Jun-15	2		354.6	0.229	410.1	2366.2			457.8
2015	6-Jun-15	3		352.9	0.228	414	2367.5			439.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	6-Jun-15	4		394.8	0.228	435.7	2389.5			458.2
2015	6-Jun-15	5		381.5	0.228	442.4	2321			469.5
2015	6-Jun-15	6		585.8	0.228	440.9	2379.2			482
2015	6-Jun-15	7		1253.5	0.229	442.2	2571.2			461.4
2015	6-Jun-15	8		642.6	0.228	438.2	2466.8			465.9
2015	6-Jun-15	9		636.6	0.238	429.3	2583			454.6
2015	6-Jun-15	10		751	0.241	616.2	3105.8			481.2
2015	6-Jun-15	11		821.5	0.227	603.4	3503.1			462.6
2015	6-Jun-15	12		917.2	0.229	602.5	3688.8			464.2
2015	6-Jun-15	13		1560.4	0.239	565.2	3796			467.6
2015	6-Jun-15	14		1636.9	0.245	505.9	3895.6			467.3
2015	6-Jun-15	15		946.6	0.255	501.5	3892.4			483.4
2015	6-Jun-15	16		677.3	0.325	513.1	3904.7			533.1
2015	6-Jun-15	17		875.1	0.28	452	3924.2			508.5
2015	6-Jun-15	18		798.2	0.271	471.7	3923.6			476.7
2015	6-Jun-15	19		714	0.24	461.5	3788.8			484.6
2015	6-Jun-15	20		227.3	0.233	459	3335			474.4
2015	6-Jun-15	21		258.6	0.232	452.6	2782.6			472.4
2015	6-Jun-15	22		410.1	0.232	459.2	2592.3			465.6
2015	6-Jun-15	23		383.8	0.232	443.5	2637.1			464.1
2015	7-Jun-15	0		298.3	0.232	451.4	2460.3			465.6
2015	7-Jun-15	1		451.2	0.231	441.1	2368.9			458.1
2015	7-Jun-15	2		693	0.231	442.5	2357.6			458
2015	7-Jun-15	3		382	0.232	448.9	2353.2			454.2
2015	7-Jun-15	4		256.3	0.232	447.9	2361.1			451.5
2015	7-Jun-15	5		265.7	0.232	435.2	2301.8			447.2
2015	7-Jun-15	6		350.2	0.239	428.7	2348.4			466.8
2015	7-Jun-15	7	0	781.4	0.497	716.9	2802.8			607.1
2015	7-Jun-15	8	0	702.4	0.417	845.6	2975.1			626.4
2015	7-Jun-15	9	0	1618.8	0.529	786.5	3357.1			684
2015	7-Jun-15	10	0	1381.1	0.778	1026.6	3783.2			724.3
2015	7-Jun-15	11	0	1074.7	0.872	1025.8	3867.1			720.9
2015	7-Jun-15	12	0	1126.3	0.88	1138.9	3878.4			713.3
2015	7-Jun-15	13	0	1056.6	0.888	1207.1	3876.4			705.9
2015	7-Jun-15	14	0	975.5	0.888	1150.4	3878.4			690.2
2015	7-Jun-15	15	0	1140.4	0.818	1153.5	3870.2			676
2015	7-Jun-15	16	0	1039.6	0.509	1025.7	3851			628.8
2015	7-Jun-15	17	0	1180.9	0.3	764.9	3789			550.3
2015	7-Jun-15	18	29.1	923.4	0.312	509	3875.9			566.9
2015	7-Jun-15	19	68.6	912.6	0.247	484.3	3770.8			443.2
2015	7-Jun-15	20	91.9	883.6	0.252	481.5	3739.1			455.2
2015	7-Jun-15	21	93.4	874.3	0.25	450.6	3684.9			454.6
2015	7-Jun-15	22	122.5	208.9	0.232	462.1	3301.4			450.2
2015	7-Jun-15	23	207.5	561.8	0.036	164.15	2755.7			444.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	8-Jun-15	0	309.2	398.7			2405.9			443.7
2015	8-Jun-15	1	485.8	381.4			2349.8			443.7
2015	8-Jun-15	2	671.4	425.3			2348.8			444.3
2015	8-Jun-15	3	469.3	670.7			2345.4			439.9
2015	8-Jun-15	4	510	355.6			2343.6			436.9
2015	8-Jun-15	5	803.5	796.3	0.008		2307.8			440.2
2015	8-Jun-15	6	1211.9	801	0.066		2348.8			439.7
2015	8-Jun-15	7	724.2	492.6	0.066		2362.8			443.2
2015	8-Jun-15	8	571.2	234.8	0.074		2539.2			443.9
2015	8-Jun-15	9	664	350.1	0.233		3002			458.1
2015	8-Jun-15	10	1130.8	489.1	0.265		3535			536.2
2015	8-Jun-15	11	741.4	820.2	0.324		3768.4			606.5
2015	8-Jun-15	12	584.9	541.7	0.313		3815			553
2015	8-Jun-15	13	974.2	632.6	0.248		3838.6			503.4
2015	8-Jun-15	14	1205.4	920.1	0.259		3860.3			454.7
2015	8-Jun-15	15	1223.8	966.1	0.333		3917.2			495.1
2015	8-Jun-15	16	1324.8	923.8	0.672		3896			659.6
2015	8-Jun-15	17	1357.5	992.8	0.618		3859.6			654.8
2015	8-Jun-15	18	1252.3	846.4	0.225		3868.4			514.4
2015	8-Jun-15	19	1027.4	917.7			3730.1			454.9
2015	8-Jun-15	20	692.6	391.1			3314.3			437.9
2015	8-Jun-15	21	684	575			3494.3			465.5
2015	8-Jun-15	22	972.1	893			3715.8			468.8
2015	8-Jun-15	23	648.4	749			3377.3			453.2
2015	9-Jun-15	0	505.4	294.3			2890.7			439.6
2015	9-Jun-15	1	912.8	574.6			2613.2			463.7
2015	9-Jun-15	2	1284.6	705.9			2618.4			589
2015	9-Jun-15	3	1297.2	990.5			3038.5			710.4
2015	9-Jun-15	4	924.8	427.8			2735.6			660.6
2015	9-Jun-15	5	601.6	429.1	0.012		2663.3			538.4
2015	9-Jun-15	6	429.5	471.9	0.066		2640.6			418
2015	9-Jun-15	7	796.5	462.4	0.066		2892.2			432.6
2015	9-Jun-15	8	440.3	234.6	0.108		3187			447.1
2015	9-Jun-15	9	453.7	615.2	0.225		3564.1			457.6
2015	9-Jun-15	10	436	574.7	0.236		3791.3			472.9
2015	9-Jun-15	11	466.8	707.8	0.263		3951			477.9
2015	9-Jun-15	12	689.5	871.5	0.251		4271.1			497.4
2015	9-Jun-15	13	1144.9	1007.6	0.295		4305.4			571.5
2015	9-Jun-15	14	1236.1	890.5	0.266		4442.5			569.5
2015	9-Jun-15	15	1236.9	1054.6	0.274		4442.6			588.1
2015	9-Jun-15	16	1202.9	855.2	0.39		4467.6			886.8
2015	9-Jun-15	17	1144.4	962.7	0.252		4398			1012.5
2015	9-Jun-15	18	825.4	524.6	0.076		4133.2			885
2015	9-Jun-15	19	839.5	620.4			4198.6			838.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	9-Jun-15	20	521.5	307.9			3910.4			808
2015	9-Jun-15	21	396.7	254.6			3860.5			711.4
2015	9-Jun-15	22	253.2	168			3385.1			546.8
2015	9-Jun-15	23	147.1	116.2			2796.2			638.9
2015	10-Jun-15	0	149.4	94.4			2648.9			640.8
2015	10-Jun-15	1	157.4	115.5			2676.1			647.4
2015	10-Jun-15	2	199.4	110			2664.6			611.8
2015	10-Jun-15	3	372.3	255.3			2677.4			580.9
2015	10-Jun-15	4	385.7	221.6			2699.7			552.2
2015	10-Jun-15	5	406.9	247			2655.5			548.6
2015	10-Jun-15	6	559.6	316.2			2919			791
2015	10-Jun-15	7	331.2	613.5	0.003		3582.5			784.7
2015	10-Jun-15	8	0.513	1011.8	0.066		4110.6			853.2
2015	10-Jun-15	9	17.6	962.4	0.075	0	4292.7			971.7
2015	10-Jun-15	10	79.2	809.1	0.165	0	4355.4			1012.5
2015	10-Jun-15	11	321.1	1097.4	0.222	0	4385.6			1528
2015	10-Jun-15	12	799.5	1140.4	0.25	0	4388.2			2330.6
2015	10-Jun-15	13	690.7	1120.7	0.264	0	4347.1			2126.9
2015	10-Jun-15	14	1115.2	990	0.364	0	4335.7			1828.1
2015	10-Jun-15	15	755.3	1117.4	0.371	0	4349.8			1681.2
2015	10-Jun-15	16	900.2	976.9	0.307	0	4348.7			1683.7
2015	10-Jun-15	17	1000	1173.8	0.253	0	4317.7			1791.6
2015	10-Jun-15	18	999.6	1066.3	0.138	0	4285			1998.2
2015	10-Jun-15	19	1051.9	1143.6		0	4288.3			1750.9
2015	10-Jun-15	20	870.2	883.3		0	4266.1			1572
2015	10-Jun-15	21	538.5	709.4		0	3892.4			1523.6
2015	10-Jun-15	22	732.6	615.8		0	3370.8			1396.4
2015	10-Jun-15	23	515.3	551.3	0.044	0	3104.3			801.2
2015	11-Jun-15	0	379.9	375.1	0.059	0	2946.1			732
2015	11-Jun-15	1	339.6	585.4	0.053	7.5	2654.6			764.6
2015	11-Jun-15	2	755.9	555.9	0.06	311.2	2579.8			888.8
2015	11-Jun-15	3	548.4	584.9	0.156	370.8	2549.1			1058.1
2015	11-Jun-15	4	356.2	534.3	0.251	419.2	2532.6			962.8
2015	11-Jun-15	5	358.6	562.7	0.237	410.5	3160.3			878.4
2015	11-Jun-15	6	393.9	415.4	0.235	393.8	3865.1			1009.1
2015	11-Jun-15	7	370.4	247	0.234	411	4171.5			1011.2
2015	11-Jun-15	8	404.6	191.6	0.235	413.9	4195.3			969.5
2015	11-Jun-15	9	689.9	408.1	0.239	413.2	4239.6			1033.9
2015	11-Jun-15	10	471.7	510	0.266	421.8	4240.5			1256.7
2015	11-Jun-15	11	701.1	1050.5	0.245	428.4	4255.4			655
2015	11-Jun-15	12	842.3	861.5	0.294	474.8	4295.3			941.2
2015	11-Jun-15	13	998.7	942.8	0.518	560.2	4260.1			1333.9
2015	11-Jun-15	14	921.7	958.2	0.627	860.6	4265.6			1355.6
2015	11-Jun-15	15	980.2	965.9	0.561	730.7	4290.3			1422.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	11-Jun-15	16	954.3	1016.8	0.786	989.4	4305.9			1338.9
2015	11-Jun-15	17	1030.1	1106	0.544	813.8	4302.7			1142.9
2015	11-Jun-15	18	1095.8	966.8	0.314	489	4279.8			916.7
2015	11-Jun-15	19	1101.2	1137.7	0.374	470.1	4243.9			944.9
2015	11-Jun-15	20	1057.7	1041.7	0.324	480.6	4227.7			969
2015	11-Jun-15	21	882.4	999.9	0.235	443.5	4244.3	0.057		1007.8
2015	11-Jun-15	22	638.5	532.7	0.232	439.1	4185.6	0.109		1261.2
2015	11-Jun-15	23	768	686.3	0.231	452.1	4188.9	91.409		1214.2
2015	12-Jun-15	0	581.2	499.7	0.231	450	4001.3	258.409		648.8
2015	12-Jun-15	1	373.9	400.5	0.231	439.1	3432.9	495.909		631.7
2015	12-Jun-15	2	375.8	269.7	0.231	436.6	3073.9	627.798		733.5
2015	12-Jun-15	3	369.6	346.4	0.231	439.5	3108.7	682.039		746
2015	12-Jun-15	4	356	288.9	0.23	433.7	3085.2	716.247		884.4
2015	12-Jun-15	5	384.9	313.1	0.231	431.9	3586.3	715.847		741.5
2015	12-Jun-15	6	319.3	362.5	0.233	427.7	4005.9	715.947		590
2015	12-Jun-15	7	405.9	426.4	0.252	417	4141.9	720.147		560.5
2015	12-Jun-15	8	384.4	407.1	0.248	431.3	4145.7	771.047		587
2015	12-Jun-15	9	445.1	557.6	0.282	480	4160.4	827.85		670.3
2015	12-Jun-15	10	587.3	623.3	0.272	454	4054.3	524.352		620.9
2015	12-Jun-15	11	1029.3	591.4	0.522	528.3	4141.6	514.247		777.4
2015	12-Jun-15	12	1188.9	900.7	0.723	690.1	4186.1	477.547		887.4
2015	12-Jun-15	13	908	884.5	0.783	845.7	4177.5	506.231		941.5
2015	12-Jun-15	14	986	879.9	0.708	896.5	4183.3	753.543		919.7
2015	12-Jun-15	15	977.3	927.1	0.443	636.9	4162.4	759.712		806.5
2015	12-Jun-15	16	639.1	726.4	0.244	471.2	3977.4	770.4		648.8
2015	12-Jun-15	17	448.3	546.1	0.231	441	3745.6	759.5		611
2015	12-Jun-15	18	397.9	376.5	0.231	458.7	3405	748		508.9
2015	12-Jun-15	19	389.2	304.6	0.231	459.3	3086.4	223.476		578.2
2015	12-Jun-15	20	321.1	267.8	0.23	458.7	3086.5			598.3
2015	12-Jun-15	21	210.4	198.4	0.056	461.7	2460.9			936
2015	12-Jun-15	22	162.1	138.3		467.8	1322.8			917.4
2015	12-Jun-15	23	239.4	257.9		73.3	10.13			332.415
2015	13-Jun-15	0	285	259.3		0				
2015	13-Jun-15	1	277	244.7		0				
2015	13-Jun-15	2	254.6	232.3		0				
2015	13-Jun-15	3	250.8	261.1		0				
2015	13-Jun-15	4	256.6	210.3						
2015	13-Jun-15	5	255	496.8						
2015	13-Jun-15	6	260.7	454.7						
2015	13-Jun-15	7	280.4	481						
2015	13-Jun-15	8	412.2	552.5						
2015	13-Jun-15	9	463	894.7						
2015	13-Jun-15	10	451.7	785.2						
2015	13-Jun-15	11	925.7	890.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	13-Jun-15	12	856.7	746.3		0				
2015	13-Jun-15	13	972.6	934.5		0				
2015	13-Jun-15	14	925.9	795.2		0				
2015	13-Jun-15	15	1198.6	1122		0				
2015	13-Jun-15	16	1072.8	961.3		0	89.056			
2015	13-Jun-15	17	1241.2	1092.4		0	378.8			
2015	13-Jun-15	18	1219.3	1034.5		0	528.4			
2015	13-Jun-15	19	1258.3	1127.5		0	537.8			
2015	13-Jun-15	20	1172.9	991		0	1052.8			
2015	13-Jun-15	21	1216.5	1174.8		0	2170.8			0
2015	13-Jun-15	22	1132.9	794.1		0	2387.9			9.6
2015	13-Jun-15	23	824.7	583.9		0	2539			33.9
2015	14-Jun-15	0	449.7	385			2818.9			8.4
2015	14-Jun-15	1	239.9	560.7			2729.6			0
2015	14-Jun-15	2	170.9	398.7			2601.5			0.3
2015	14-Jun-15	3	299.1	251.2			2583.6			45.5
2015	14-Jun-15	4	322	240			2614			221.3
2015	14-Jun-15	5	331.5	263.6			2534.1			369.1
2015	14-Jun-15	6	362.5	289.2			2572.2			460.7
2015	14-Jun-15	7	466.9	401.3			2815.6			622.8
2015	14-Jun-15	8	573.1	371.7			2918.5			717.4
2015	14-Jun-15	9	874.7	1041.6			3427.9			854.2
2015	14-Jun-15	10	543.7	689.6			3687.1			699.6
2015	14-Jun-15	11	741	917.5			3993.5			669.6
2015	14-Jun-15	12	839.5	839			4047.3			643.9
2015	14-Jun-15	13	811.1	904.3			3983.5			598.6
2015	14-Jun-15	14	872.2	855.8			3994.1			659
2015	14-Jun-15	15	956.7	1055.1			4141.8			767.8
2015	14-Jun-15	16	1051.1	1071			4161.7			735.4
2015	14-Jun-15	17	1178.1	1140.8			4096.7			753.4
2015	14-Jun-15	18	1075.8	856			4120.1			728.8
2015	14-Jun-15	19	1135.3	1130.9			4078.7			707.5
2015	14-Jun-15	20	1072	877.8			4039			715.7
2015	14-Jun-15	21	897.1	957.9		0	3916.5			655.9
2015	14-Jun-15	22	500.6	458.6		0	3470.2			586.2
2015	14-Jun-15	23	429.7	392.6		0.2	3063.7			491.7
2015	15-Jun-15	0	231.7	152.3		0	2722.7			503.8
2015	15-Jun-15	1	258.8	362.2		0	2489			499.4
2015	15-Jun-15	2	311.5	306		0	2449.1			502.8
2015	15-Jun-15	3	294.6	345.6		0	2450.6			500.6
2015	15-Jun-15	4	299.6	225.7		0	2462.5			498.6
2015	15-Jun-15	5	298.4	272.5		17.6	2414.4			503.4
2015	15-Jun-15	6	292.6	312.3		323.5	2598.5			501.5
2015	15-Jun-15	7	394.6	350.8		477.5	2884.5			615.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	15-Jun-15	8	505.2	378.4		1047.6	3513.9			777.7
2015	15-Jun-15	9	515.5	445.2		1105	3837.3			734.9
2015	15-Jun-15	10	793.2	535.2		1116.9	3963.3			759.9
2015	15-Jun-15	11	905.4	942.6		658	4012.9			888.7
2015	15-Jun-15	12	993.5	738.9		593.2	4045.8			1432.3
2015	15-Jun-15	13	1000.3	991.9		896	4029.8			849.3
2015	15-Jun-15	14	1042.7	972.4		1122.9	4035.3			764.2
2015	15-Jun-15	15	1086.2	1065		1120.1	4045.5			762.8
2015	15-Jun-15	16	1077.3	875.2		1163.9	4026.6			759.1
2015	15-Jun-15	17	1115.5	1012.7		1128.9	3978.4			804.7
2015	15-Jun-15	18	1097	778.8		1042.9	3963			752.1
2015	15-Jun-15	19	1096	1030.4		981	3974.3			751.1
2015	15-Jun-15	20	995.1	801.4		980	3962.7			749
2015	15-Jun-15	21	681	680.6		636.6	3870.6			744.6
2015	15-Jun-15	22	419.4	277.4		482.8	3647			744.7
2015	15-Jun-15	23	235.5	237.5	0.063	434.6	3403.3			742.4
2015	16-Jun-15	0	187.8	135.2	0.08	440.6	3097.5			694.8
2015	16-Jun-15	1	196.9	258.4	0.078	456.5	2773.6			608.5
2015	16-Jun-15	2	227.6	223	0.086	446.7	2475.9			509.9
2015	16-Jun-15	3	249.5	280.5	0.072	454.1	2452.9			515.2
2015	16-Jun-15	4	248.8	254.4	0.069	481.9	2473.1			528.2
2015	16-Jun-15	5	473.3	433.2	0.083	807.3	2972.3			667.5
2015	16-Jun-15	6	664.6	798.5	0.089	1126.9	3606.7			731
2015	16-Jun-15	7	912.8	1527.6	0.122	1126.9	3870.7			745.4
2015	16-Jun-15	8	857.8	688.3	0.243	1151	3926.7			740.5
2015	16-Jun-15	9	864.1	991.3	0.29	1145	3943.4			754.3
2015	16-Jun-15	10	940	826.5	0.35	1120.8	3976.6			732.9
2015	16-Jun-15	11	957.1	991.6	0.328	1076.8	3956.4			682.4
2015	16-Jun-15	12	971.2	819.1	0.463	1036.1	3975.8			677.8
2015	16-Jun-15	13	968.4	971.6	0.818	1158.5	3954.6			676.9
2015	16-Jun-15	14	956.8	886.1	0.868	1150.6	3963.9			682.6
2015	16-Jun-15	15	998.6	996.5	0.809	1122.8	3956.4			677
2015	16-Jun-15	16	971.4	882.4	0.658	1136.8	3974.9			670.2
2015	16-Jun-15	17	952.8	965	0.509	1034.1	3954.2			655.3
2015	16-Jun-15	18	952.1	784.9	0.121	1041.3	3948.9			642.7
2015	16-Jun-15	19	1032.6	1000.9		781.4	3957			633.4
2015	16-Jun-15	20	1000.1	801.6		508.5	3942.6			642.2
2015	16-Jun-15	21	920.5	921.3		411.6	3898.8			573.4
2015	16-Jun-15	22	673.9	681.3		419.4	3887.2			520.9
2015	16-Jun-15	23	594.4	531.4		423.1	3668			416.2
2015	17-Jun-15	0	901.9	455		421.8	3208			408.4
2015	17-Jun-15	1	648.2	408		422.5	2651.8			406.5
2015	17-Jun-15	2	487.3	257.1		420.5	2380.5			415.2
2015	17-Jun-15	3	388.7	232.2	0.052	421.3	2356.8			411.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	17-Jun-15	4	434.9	281.6	0.075	484.9	2533.9			487.1
2015	17-Jun-15	5	748.2	504.9	0.055	824	3148.7			637.7
2015	17-Jun-15	6	953	651.1	0.06	1137.4	3637.8			658.4
2015	17-Jun-15	7	825.8	685.7	0.108	1150.6	3839.5			650.4
2015	17-Jun-15	8	780.8	450.5	0.244	1167.8	3855.3			654.8
2015	17-Jun-15	9	835.4	657.2	0.245	1204.9	3867.3			666.1
2015	17-Jun-15	10	800.7	519.7	0.243	1245.1	3857.8			665.8
2015	17-Jun-15	11	1068.1	816.7	0.293	1155	3869.4			669.2
2015	17-Jun-15	12	1400.2	1033.4	0.293	670.9	3877			694.2
2015	17-Jun-15	13	908.3	1003.2	0.31	565.7	3939.1			681.9
2015	17-Jun-15	14	849.4	791.9	0.255	531.5	3900.6			630.8
2015	17-Jun-15	15	889.3	1028.2	0.248	439.7	3836.7			626.4
2015	17-Jun-15	16	787.5	763	0.235	443.5	3886.1			625.2
2015	17-Jun-15	17	828.3	955.6	0.243	439.1	3904.8			583.7
2015	17-Jun-15	18	938.7	732.2	0.071	435.7	3911.1			484.6
2015	17-Jun-15	19	1007.3	979.1		437.2	3923.9			448.6
2015	17-Jun-15	20	985.9	819.4		463.4	3909.6			539.4
2015	17-Jun-15	21	819.3	819		444.6	3828.2			484.6
2015	17-Jun-15	22	637.5	468.3		444.1	3730.7			470.1
2015	17-Jun-15	23	460	470.3		432.8	3343.1			327.6
2015	18-Jun-15	0	986.6	283.5		417.9	2848.7			19.26
2015	18-Jun-15	1	1081.7	331		414.5	2622.8			
2015	18-Jun-15	2	403.3	163.4		411.4	2562.8			
2015	18-Jun-15	3	294.8	181.6		409.8	2326.9			
2015	18-Jun-15	4	469.7	221.3	0.013	493.9	2487.5			
2015	18-Jun-15	5	695.8	520.3	0.066	866.6	3142.3			
2015	18-Jun-15	6	1154.6	933.4	0.067	990.4	3610.5			
2015	18-Jun-15	7	1067.7	1308.3	0.067	887.3	3783.3			
2015	18-Jun-15	8	983	954.4	0.067	1139.7	3852.2			
2015	18-Jun-15	9	1043.9	1041.3	0.112	1168.5	3862.4			
2015	18-Jun-15	10	1014.8	905.1	0.255	1172.6	3840.8			
2015	18-Jun-15	11	1053.4	1150.7	0.257	1195.4	3870.9			
2015	18-Jun-15	12	1055.9	974.7	0.54	1223.2	3804.4			
2015	18-Jun-15	13	1108.9	1148.9	0.849	1224.4	3781.6			
2015	18-Jun-15	14	1095	870	0.869	1188.4	3867.8			
2015	18-Jun-15	15	1075.9	1010.5	0.865	1214.7	3891.9			
2015	18-Jun-15	16	1033.5	656.8	0.665	1011	3915.9			
2015	18-Jun-15	17	1081.7	1040.5	0.374	626	3907.9			
2015	18-Jun-15	18	970	740.9	0.255	457.9	3927.2			
2015	18-Jun-15	19	1123	1067.2	0.031	472.4	3916.1			
2015	18-Jun-15	20	938.7	715.6		498.9	3857.9			
2015	18-Jun-15	21	651.4	793.9		467.9	3798.1			
2015	18-Jun-15	22	613	584.5		455.5	3847.5			
2015	18-Jun-15	23	487.9	581.8		146.905	3803.4			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	19-Jun-15	0	283.3	330.4			3476.8			
2015	19-Jun-15	1	186.1	301.9			3203.3			
2015	19-Jun-15	2	153.9	192.1			3424.9			
2015	19-Jun-15	3	188.2	289.9	0.046		3102.1			
2015	19-Jun-15	4	408.5	472.9	0.059		2967.2			
2015	19-Jun-15	5	746.4	693.8	0.059		2726.1			
2015	19-Jun-15	6	1034.8	871.5	0.055		3165			
2015	19-Jun-15	7	948	1028.3	0.08		3628.4			
2015	19-Jun-15	8	984.6	329.2	0.211		3831.7			
2015	19-Jun-15	9	963.5	504	0.243		3831.5			
2015	19-Jun-15	10	978.7	534.8	0.245		3854.3			
2015	19-Jun-15	11	1015.7	681.7	0.238		3851.8			
2015	19-Jun-15	12	857	498.5	0.289		3876.3			
2015	19-Jun-15	13	603.5	382.5	0.497		3864.4			
2015	19-Jun-15	14	530.3	212.6	0.475		3836			
2015	19-Jun-15	15	393.5	220.6	0.28		3820.9			
2015	19-Jun-15	16	345.4	174.6	0.182		3779.2			
2015	19-Jun-15	17	277.5	284.4			3799.6			
2015	19-Jun-15	18	449	356.4			3809.6			
2015	19-Jun-15	19	378.3	364.7			3714.1			
2015	19-Jun-15	20	280.2	269.2			3636.9			
2015	19-Jun-15	21	244.7	318.1			3648.2			
2015	19-Jun-15	22	340	296.3			3361.7			
2015	19-Jun-15	23	284.7	600.4			2873.5			
2015	20-Jun-15	0	301.4	488.9			2430.5			
2015	20-Jun-15	1	295.2	541.1			2280.9			
2015	20-Jun-15	2	284.6	523.6			2263.3			
2015	20-Jun-15	3	287.8	585			2266.4			
2015	20-Jun-15	4	268.3	509.7			2257.5			
2015	20-Jun-15	5	299	545.2	0.05		2215.5			
2015	20-Jun-15	6	304.1	614.5	0.067		2370.9			
2015	20-Jun-15	7	294.2	626.7	0.058		2736.5			
2015	20-Jun-15	8	305.9	343.2	0.089		3079.9			
2015	20-Jun-15	9	516.1	742.5	0.236		3302.5			
2015	20-Jun-15	10	869.5	379.4	0.292		3574.9			
2015	20-Jun-15	11	1102.2	765.7	0.273		3708.6			
2015	20-Jun-15	12	1072	1019.4	0.284		3713.8			
2015	20-Jun-15	13	1128.2	1501.9	0.452		3702.7			
2015	20-Jun-15	14	1148.3	1641.6	0.488		3706.8			
2015	20-Jun-15	15	1207.9	1309.8	0.458		3716			
2015	20-Jun-15	16	1102.1	532.1	0.302		3687.6			
2015	20-Jun-15	17	1176.8	615.4	0.354		3646			
2015	20-Jun-15	18	1174.7	625.1	0.184		3551.6			
2015	20-Jun-15	19	1182	726.7			3401.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	20-Jun-15	20	1069.6	540			3346.8			
2015	20-Jun-15	21	576.2	359.6			2691.8			
2015	20-Jun-15	22	564.6	139.3			2746.5			
2015	20-Jun-15	23	621.6	312.8			2685.6			
2015	21-Jun-15	0	439	188.1			2500			
2015	21-Jun-15	1	396.5	247.9			2368.4			
2015	21-Jun-15	2	363.1	229.8			2289.7			
2015	21-Jun-15	3	358	240.9			2282.5			
2015	21-Jun-15	4	343.7	224.6			2238.2			
2015	21-Jun-15	5	343.9	214.6			2330.7			
2015	21-Jun-15	6	341.9	261.3	0.003		2378.4			
2015	21-Jun-15	7	363	269.3	0.07		2629.6			
2015	21-Jun-15	8	584.1	296.3	0.07		2948.8			
2015	21-Jun-15	9	1010.2	779	0.1		3154.4			
2015	21-Jun-15	10	1550	1114	0.234		3325.7			
2015	21-Jun-15	11	2128.8	1549	0.243		3490.2			
2015	21-Jun-15	12	1192	690.1	0.244		3517.9			
2015	21-Jun-15	13	979.2	647	0.244		3542.4			
2015	21-Jun-15	14	802.1	379.9	0.242		3462.1			
2015	21-Jun-15	15	822.3	581.8	0.39		3665.6			
2015	21-Jun-15	16	846.4	480.9	0.519		3659.9			
2015	21-Jun-15	17	934.2	659	0.293		3668.4			0
2015	21-Jun-15	18	991.2	573	0.264		3666			0.5
2015	21-Jun-15	19	1033.2	665.9	0.047		3527.9			0
2015	21-Jun-15	20	1063.7	523.6			3222.5			0
2015	21-Jun-15	21	1019.5	547.5			3290			0
2015	21-Jun-15	22	752.9	554.8			2993			0
2015	21-Jun-15	23	491.4	1154.9			2514.6			0
2015	22-Jun-15	0	546.9	364.3			2191.1			0
2015	22-Jun-15	1	570.7	298.6			2163.6			0
2015	22-Jun-15	2	399	298.2			2136.5			0
2015	22-Jun-15	3	466.5	317.6			2141.5			30
2015	22-Jun-15	4	489.1	401.6			2518.7			92.3
2015	22-Jun-15	5	396.5	511			3136.5			219.2
2015	22-Jun-15	6	432	595.3	0.06		3425.4			290.4
2015	22-Jun-15	7	615.4	508.3	0.071		3411.5			377.7
2015	22-Jun-15	8	1208.9	321.3	0.066		3147.2			375.4
2015	22-Jun-15	9	1150.6	277.1	0.112		3019.6			332.9
2015	22-Jun-15	10	1089.5	214.6	0.234		2982			448.7
2015	22-Jun-15	11	997	232.4	0.241	0	3009			483.5
2015	22-Jun-15	12	1025.7	207.6	0.241	0	3113.9			442.5
2015	22-Jun-15	13	1020.6	242.1	0.281	0.8	3257.9			450.3
2015	22-Jun-15	14	990.2	320.9	0.318	0	3494.4			370.8
2015	22-Jun-15	15	1026.7	528.3	0.27	0	3124			348.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	22-Jun-15	16	931.6	819.2	0.429	0	3223.1			403.6
2015	22-Jun-15	17	1014.6	1602.8	0.572	0	3226.5			456.3
2015	22-Jun-15	18	941.3	1438.4	0.558	0	3216.6			488.3
2015	22-Jun-15	19	41.712	1452.1	0.636	0	3252.8			534.3
2015	22-Jun-15	20		1317.7	0.752	0	3239.4	0.028		603.4
2015	22-Jun-15	21		1134.3	0.448	0	3040.5	0.094		560.2
2015	22-Jun-15	22		906	0.261	0	3064	122.594		505.3
2015	22-Jun-15	23		744.2	0.263	0	2609.2	350.794		501.5
2015	23-Jun-15	0		321.6	0.256	0	2338.5	391.176		501
2015	23-Jun-15	1		346.5	0.259	0	2396.5	567.954		509.9
2015	23-Jun-15	2		304.6	0.258	0	2555	595.331	0	510.8
2015	23-Jun-15	3		283.3	0.279	34.6	2569.9	515.431	0	520.2
2015	23-Jun-15	4		455.3	0.599	231.8	2673.6	541.937	11.3	617.3
2015	23-Jun-15	5		662.8	0.864	373.5	2998.6	544.952	36	640.9
2015	23-Jun-15	6		1122	0.882	382.3	3102.9	552.647	40.3	659.4
2015	23-Jun-15	7		1550.8	0.881	437.8	3062.1	525.847	39.7	658.2
2015	23-Jun-15	8		1333.5	0.877	445.6	3167.4	507.747	43.6	663
2015	23-Jun-15	9		1575.3	0.87	440.9	3283.8	509.749	42.8	666.9
2015	23-Jun-15	10		1152.5	0.869	356.3	3249.3	579.561	35.4	670.8
2015	23-Jun-15	11		1549.6	0.872	434.6	3264.1	526.221	36.7	683.7
2015	23-Jun-15	12		1577.3	0.873	524.4	3508	706	41.4	789.2
2015	23-Jun-15	13		1619.6	0.873	464.7	3521.7	1161.8	41.6	1037.8
2015	23-Jun-15	14		1079.3	0.874	518.9	3393.6	1702.4	37.5	1684.4
2015	23-Jun-15	15		1320.3	0.871	571.8	3507.9	951.7	39.7	1790.4
2015	23-Jun-15	16		1276.3	0.869	549	3426.3	729.3	20.5	1752.9
2015	23-Jun-15	17		1717.3	0.866	585.2	3193.5	753.5	4.8	1753.8
2015	23-Jun-15	18		1368.4	0.869	782.8	3509.5	900.3		1698.8
2015	23-Jun-15	19		1304.4	0.864	1113	3504.2	1863.8		1631.2
2015	23-Jun-15	20		606.7	0.624	803	3326.1	2391.4		1417.6
2015	23-Jun-15	21	0	835.7	0.366	663.6	3462.9	1604.4		725.8
2015	23-Jun-15	22	0	524.8	0.268	549.4	3337.1	774.3		615.6
2015	23-Jun-15	23	0	330.7	0.169	537.1	3116	369.75		541.8
2015	24-Jun-15	0	0	169.1	0.042	528.5	2840.6			426.3
2015	24-Jun-15	1	0.9	147	0.042	514.9	2531.5			371.4
2015	24-Jun-15	2	0.9	110.9	0.043	506.8	2250.9			389.8
2015	24-Jun-15	3	12.6	105.1	0.043	503.1	2177.6			394.8
2015	24-Jun-15	4	18.8	108.9	0.042	536.2	2192.3			417.2
2015	24-Jun-15	5	18.7	164.7	0.042	704.7	2645.5		0	614
2015	24-Jun-15	6	100.7	247.1	0.042	968.5	3208.3		64.2	690.7
2015	24-Jun-15	7	184.2	240.2	0.061	1068.5	3412.7		43.9	671.1
2015	24-Jun-15	8	431.1	289.6	0.07	1078.1	3513.7		35.5	684.9
2015	24-Jun-15	9	1032.6	341.6	0.102	1073.5	3537		31.2	683.9
2015	24-Jun-15	10	372.4	227.8	0.243	859.3	3481.2		31.8	617.7
2015	24-Jun-15	11	386.7	228	0.239	658.4	3296.4		33.8	494.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	24-Jun-15	12	267.1	247.9	0.237	553.8	3200.4		41.1	444.7
2015	24-Jun-15	13	225	263.4	0.255	551.6	3422.6		47.1	372.2
2015	24-Jun-15	14	286.2	249.6	0.251	549	3580.2		52.4	360.7
2015	24-Jun-15	15	418.5	399.3	0.264	539.9	3573		45	373.5
2015	24-Jun-15	16	415.1	423	0.247	532.8	3584.8		47	372.4
2015	24-Jun-15	17	325	578.2	0.24	527.9	3514.1		54.7	370.9
2015	24-Jun-15	18	349.5	788	0.252	523.8	3511.5		70.2	367.4
2015	24-Jun-15	19	297.9	743.9	0.024	524.5	3479.1		50.2	363.8
2015	24-Jun-15	20	196.2	282.7		526.3	3219.5		86.2	351.8
2015	24-Jun-15	21	191.3	222.9		516.8	2865.4		142.1	368.1
2015	24-Jun-15	22	187.6	193.3		341.19	2492.9		163.4	364
2015	24-Jun-15	23	189.7	463.8			2224.2		189.2	49.9
2015	25-Jun-15	0	185.5	227.2			2212.3		155.1	6.804
2015	25-Jun-15	1	193.1	177.8			2206.5		84.7	
2015	25-Jun-15	2	182.2	132.2			2199.6		33.8	
2015	25-Jun-15	3	186.2	98.1			2211.7		4.746	
2015	25-Jun-15	4	181.7	86.5			2216.1			
2015	25-Jun-15	5	187.4	157.6			2175.6			
2015	25-Jun-15	6	178.5	407.3			2211.9			
2015	25-Jun-15	7	168.1	606.2			2226.6			
2015	25-Jun-15	8	151.9	443.7			2207.1			
2015	25-Jun-15	9	136.7	511.4			2204.1			
2015	25-Jun-15	10	145.1	456.7			2206.5			
2015	25-Jun-15	11	160.4	591			2202.6			
2015	25-Jun-15	12	177	456.2			2343.2			
2015	25-Jun-15	13	216.8	546.1			2500.3			
2015	25-Jun-15	14	251	692.9			2716.7			
2015	25-Jun-15	15	373.9	1246			2927.7			
2015	25-Jun-15	16	432.9	1213			3088.5			
2015	25-Jun-15	17	565.7	1233.4			3018.5			
2015	25-Jun-15	18	825.3	1337.1			2867.5			
2015	25-Jun-15	19	741	562	0.014		2655.2			
2015	25-Jun-15	20	902	495	0.078		2639.7			
2015	25-Jun-15	21	501.3	415.8	0.063		2409.8			
2015	25-Jun-15	22	369.1	234.6	0.07		2118.7			
2015	25-Jun-15	23	186.8	150.2	0.072		1677.4			
2015	26-Jun-15	0	91.6	124.5	0.062		13.875			
2015	26-Jun-15	1	64.534	239	0.05					
2015	26-Jun-15	2		243.2	0.05					
2015	26-Jun-15	3		247.6	0.05					
2015	26-Jun-15	4		269.7	0.051					
2015	26-Jun-15	5		571.4	0.051					
2015	26-Jun-15	6		705.5	0.051					
2015	26-Jun-15	7		766.8	0.051					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	26-Jun-15	8		571.9	0.052					
2015	26-Jun-15	9		439	0.052					
2015	26-Jun-15	10		315.6	0.052					
2015	26-Jun-15	11		600.1	0.052					
2015	26-Jun-15	12		740.8	0.039					
2015	26-Jun-15	13		907.2						
2015	26-Jun-15	14		1329.5						
2015	26-Jun-15	15		1317.8						
2015	26-Jun-15	16		279.9						
2015	26-Jun-15	17		344.4						
2015	26-Jun-15	18		279.9						
2015	26-Jun-15	19		261.3						
2015	26-Jun-15	20		219.6						
2015	26-Jun-15	21		224.9						
2015	26-Jun-15	22		181.6						
2015	26-Jun-15	23		194.5						
2015	27-Jun-15	0		140.3						
2015	27-Jun-15	1		127.1						
2015	27-Jun-15	2		129.6						
2015	27-Jun-15	3		157.6						
2015	27-Jun-15	4		139.2						
2015	27-Jun-15	5		145.1						
2015	27-Jun-15	6		168.5						
2015	27-Jun-15	7		159.8						
2015	27-Jun-15	8		100.6						
2015	27-Jun-15	9		131.6						
2015	27-Jun-15	10		125.8						
2015	27-Jun-15	11		171.2						
2015	27-Jun-15	12		179.8						
2015	27-Jun-15	13		310.8						
2015	27-Jun-15	14		339.6						
2015	27-Jun-15	15		538.5						
2015	27-Jun-15	16		543						
2015	27-Jun-15	17		957						
2015	27-Jun-15	18		800.9						
2015	27-Jun-15	19		863.7						
2015	27-Jun-15	20		615.5						
2015	27-Jun-15	21		692.8						
2015	27-Jun-15	22		310						
2015	27-Jun-15	23		596.9						
2015	28-Jun-15	0		273.9						
2015	28-Jun-15	1		357.5						
2015	28-Jun-15	2		131.7						
2015	28-Jun-15	3		197.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	28-Jun-15	4		152.2						
2015	28-Jun-15	5		254.7						
2015	28-Jun-15	6		477.3						
2015	28-Jun-15	7		624.6						
2015	28-Jun-15	8		486.8						
2015	28-Jun-15	9		1173.5						
2015	28-Jun-15	10		526.2						
2015	28-Jun-15	11		643.7						
2015	28-Jun-15	12		784						
2015	28-Jun-15	13		892.7						
2015	28-Jun-15	14		697.7						
2015	28-Jun-15	15		812						
2015	28-Jun-15	16		743.2						
2015	28-Jun-15	17		839.3						
2015	28-Jun-15	18		371.3						
2015	28-Jun-15	19		530.1						
2015	28-Jun-15	20		431.4			153.6			
2015	28-Jun-15	21		593.2			364.8			
2015	28-Jun-15	22		459.3			408.5			
2015	28-Jun-15	23		315.9			404			
2015	29-Jun-15	0		168.4			459.8			
2015	29-Jun-15	1		488.3			762.3			
2015	29-Jun-15	2		585.9			1475.6			
2015	29-Jun-15	3		537.2			1833.2			
2015	29-Jun-15	4		282.1			1952.4			
2015	29-Jun-15	5		720			1978.8			
2015	29-Jun-15	6		852			2153.5			
2015	29-Jun-15	7		826.7			2279.3			
2015	29-Jun-15	8		431.6			2402.8			
2015	29-Jun-15	9		810.6			2369.1			
2015	29-Jun-15	10		780.7			2564.5			
2015	29-Jun-15	11		863.7			2989			
2015	29-Jun-15	12		754.3			3163.7			0
2015	29-Jun-15	13		869.4			3429.7			0
2015	29-Jun-15	14		772.1			3453.5			0
2015	29-Jun-15	15		832.4			3463.1			0
2015	29-Jun-15	16		761.4			3486.6			0
2015	29-Jun-15	17		840.1			3503.4			0
2015	29-Jun-15	18		727.8			3499			0
2015	29-Jun-15	19		700.9			3337.4			0
2015	29-Jun-15	20		436.3			3244.1			0
2015	29-Jun-15	21		497.7			3125.6			0
2015	29-Jun-15	22		301.1			3144			0.3
2015	29-Jun-15	23		381.1			2776.5			37.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	30-Jun-15	0		219.8			2395.8			122.7
2015	30-Jun-15	1		263.8			2131.1			265.4
2015	30-Jun-15	2		144.3			2078.7			268.576
2015	30-Jun-15	3		162.1			2076			22.1
2015	30-Jun-15	4		148.5			2059.7			337.7
2015	30-Jun-15	5		322.9			2006.4			379.2
2015	30-Jun-15	6		616.5			2061.4			373.8
2015	30-Jun-15	7		891.5			2329			351
2015	30-Jun-15	8		690.3			3131			345.4
2015	30-Jun-15	9		901.2			3324.6			360.2
2015	30-Jun-15	10		816.1			3378.3			345.6
2015	30-Jun-15	11		931			3401.6			356.8
2015	30-Jun-15	12		681.6			3408.8			404.2
2015	30-Jun-15	13		788.3			3394.3			451.9
2015	30-Jun-15	14		723			3419.5			510.5
2015	30-Jun-15	15		902.9			3391.6			546.9
2015	30-Jun-15	16		717.1			3424.1			589.7
2015	30-Jun-15	17	0	875.9			3446.8			578
2015	30-Jun-15	18	0	779.7			3458.8			569.1
2015	30-Jun-15	19	0	948.6			3465			552
2015	30-Jun-15	20	0	720.9			3164.8			476.5
2015	30-Jun-15	21	0	813.9			3086.2			451.6
2015	30-Jun-15	22	0	620.3			2989.6			432.9
2015	30-Jun-15	23	0	582.9			2279.1			435.7
2015	1-Jul-15	0	0	229.6			2128.7			435
2015	1-Jul-15	1	0	186.5			2147.3			403.8
2015	1-Jul-15	2	0	286	0.066		2382.6			409.6
2015	1-Jul-15	3	0	314.9	0.078	0	2739.7			404.1
2015	1-Jul-15	4	0	286.8	0.078	0	3000.3			409.4
2015	1-Jul-15	5	0	804.8	0.067	0	3353.9			416.1
2015	1-Jul-15	6	1	968	0.067	4.7	3472.8			437.7
2015	1-Jul-15	7	0	938.2	0.071	110.5	3509.1			442.2
2015	1-Jul-15	8	0	569.8	0.078	235.5	3387			440.8
2015	1-Jul-15	9	0	1161.4	0.103	423.4	3455.4			443.9
2015	1-Jul-15	10	0	865	0.245	429.1	3354.6			447.3
2015	1-Jul-15	11	0	563.7	0.239	427.2	3308.5			451.6
2015	1-Jul-15	12	0	457.1	0.238	439.9	3473.8			453.3
2015	1-Jul-15	13	0	556.5	0.246	441.5	3539.9			455.7
2015	1-Jul-15	14	0	546	0.282	404.6	3427.7			483.4
2015	1-Jul-15	15	2.3	565.6	0.284	456.8	3418.3			528.1
2015	1-Jul-15	16	3.6	587.4	0.377	518	3416.7			580.4
2015	1-Jul-15	17	7.3	594.5	0.273	466.4	3385.7			524.9
2015	1-Jul-15	18	15	601.8	0.308	468.4	3390.4			552.1
2015	1-Jul-15	19	13.5	498.5	0.041	456.1	3517.9			503.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Jul-15	20	51.4	381.1		459	3233.1			489.7
2015	1-Jul-15	21	231	394		456.3	3239.9			483.1
2015	1-Jul-15	22	822.9	496.5		457	2993.7			476.6
2015	1-Jul-15	23	474.4	346.3		128.169	2420			484.6
2015	2-Jul-15	0	139.9	318.6			2240.8			484.2
2015	2-Jul-15	1	147.3	269.6			2233.9			482.4
2015	2-Jul-15	2	157.1	259.3			2497.138			485.6
2015	2-Jul-15	3	161.3	271.1			2860.1			481
2015	2-Jul-15	4	168.5	313.3			2841.5			476.5
2015	2-Jul-15	5	380.8	436.7			2857			459.1
2015	2-Jul-15	6	997.9	769.3			3011.3			451.7
2015	2-Jul-15	7	1333.3	858.2			3000.8			457.8
2015	2-Jul-15	8	1250.6	519.1			2683.1			454.4
2015	2-Jul-15	9	922.2	624.9			2405			455.7
2015	2-Jul-15	10	629.7	429.7			2341.9			461.2
2015	2-Jul-15	11	515.7	454.3			2790.1			464.3
2015	2-Jul-15	12	427.8	393.5			2994.1			464.8
2015	2-Jul-15	13	353.1	330.9			2957.1			369.2
2015	2-Jul-15	14	576.2	229.7			2924.1			347
2015	2-Jul-15	15	494.7	254.1			2969.1			352.8
2015	2-Jul-15	16	422.1	219.1			2882.5			346.8
2015	2-Jul-15	17	501.1	339.4			3132.4			370.4
2015	2-Jul-15	18	662.6	377.5			3221.8			383.4
2015	2-Jul-15	19	466.5	342			3031.9			395.2
2015	2-Jul-15	20	421.1	233.2			2838.9			364.8
2015	2-Jul-15	21	424	189			2552.5			385.2
2015	2-Jul-15	22	418.1	166.7			2487.8			354.9
2015	2-Jul-15	23	416.5	294.7			2135.4			352
2015	3-Jul-15	0	405.7	359.2			2049.6			352.3
2015	3-Jul-15	1	415.3	364.7			2035.1			350
2015	3-Jul-15	2	401.8	322.2			2033.1			344.5
2015	3-Jul-15	3	408	326.3			2045.9			349.2
2015	3-Jul-15	4	407	300.8			2031.2			347.3
2015	3-Jul-15	5	400	276.5			2019.4			373.7
2015	3-Jul-15	6	425.7	297.2			2004.6			362.2
2015	3-Jul-15	7	436.4	248.5			2177.3			338.2
2015	3-Jul-15	8	566.4	298.2			2660.2			339.9
2015	3-Jul-15	9	732.5	335.8			2924.8			339.8
2015	3-Jul-15	10	1229.9	530.3			3014.7			337.5
2015	3-Jul-15	11	749.6	595.5			3021.9			340
2015	3-Jul-15	12	613.2	521.1			3025.6			344.4
2015	3-Jul-15	13	512.6	511.2			2796.9			343.9
2015	3-Jul-15	14	398.9	504.3			2552.8			349.2
2015	3-Jul-15	15	304.6	508.4			2499.1			349.4



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	3-Jul-15	16	284.9	485.2			2370.1			353.5
2015	3-Jul-15	17	274	466.4			2241			350.6
2015	3-Jul-15	18	280.2	482			2248.3			350.8
2015	3-Jul-15	19	280.4	494.9			2059.1			368.5
2015	3-Jul-15	20	257.3	422.8			2082.5			359.4
2015	3-Jul-15	21	217.6	317.7			2101.4			341
2015	3-Jul-15	22	213.2	262.9			2352.1			342.3
2015	3-Jul-15	23	178	260.5			2402.5			343.5
2015	4-Jul-15	0	134	259.1			2189.2			344.8
2015	4-Jul-15	1	143.9	251.2			2168.6			347.9
2015	4-Jul-15	2	177.4	251.1			2320.2			344.2
2015	4-Jul-15	3	145.2	246.1			2103.8			343.6
2015	4-Jul-15	4	140.8	241.7			2063.7			346.9
2015	4-Jul-15	5	146.4	255.4			2082.2			350.1
2015	4-Jul-15	6	157.6	264.7			2057			352.6
2015	4-Jul-15	7	156.6	284			2148.2			345.5
2015	4-Jul-15	8	224.5	257.7			2498.4			350.1
2015	4-Jul-15	9	368.6	318.9			2897.5			346
2015	4-Jul-15	10	746.2	379.7			3054.8			356.8
2015	4-Jul-15	11	1314	836.2			2983.3			342.2
2015	4-Jul-15	12	732.4	803.9			3101.1			356.2
2015	4-Jul-15	13	705.6	988.8			3053.6			338.3
2015	4-Jul-15	14	647.5	894.3			2982.9			334.6
2015	4-Jul-15	15	604.4	819.3			3118.2			336.7
2015	4-Jul-15	16	529.1	664.6			3011.4			352.4
2015	4-Jul-15	17	549.2	688.5			3100.1			352.2
2015	4-Jul-15	18	543.2	724.3			3334			417.4
2015	4-Jul-15	19	522.1	749.7			3359.9			511.3
2015	4-Jul-15	20	366.7	595			2956.4			405.8
2015	4-Jul-15	21	672.3	611.3			2956.7			319
2015	4-Jul-15	22	723.2	535.3			2933.4			316.6
2015	4-Jul-15	23	447.7	466			2605.7			50.7
2015	5-Jul-15	0	296.3	211.6			2285.2			
2015	5-Jul-15	1	172.3	231.6			2107.8			
2015	5-Jul-15	2	213.9	373.9			2153.5			
2015	5-Jul-15	3	206.6	324.7			2310.7			
2015	5-Jul-15	4	176.1	271			2112.6			
2015	5-Jul-15	5	192.2	306.2			2166.8			
2015	5-Jul-15	6	180.2	306.6			2054			
2015	5-Jul-15	7	199.2	322.4			2189			
2015	5-Jul-15	8	497	531.5			2598.6			
2015	5-Jul-15	9	1015.1	1335.4			2552.8			
2015	5-Jul-15	10	1431.5	1425.9			2463.8			
2015	5-Jul-15	11	1628.4	931.6			2644.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	5-Jul-15	12	1586.6	865.2			3076.3			
2015	5-Jul-15	13	1628.8	880.7			3198.3			
2015	5-Jul-15	14	1602.2	819.7			3117.1			
2015	5-Jul-15	15	1687.9	882.5			3118.5			
2015	5-Jul-15	16	1639.9	710.8			3196.2			
2015	5-Jul-15	17	1647.9	583.7			2982.1			
2015	5-Jul-15	18	1690	701.8			3217.5			
2015	5-Jul-15	19	1526.7	721.5			3182.3			
2015	5-Jul-15	20	1176.1	310			2880.3			
2015	5-Jul-15	21	1150.4	314.8			2942.3			
2015	5-Jul-15	22	744.6	230.5			3079.2			
2015	5-Jul-15	23	453.9	321.9			2809.1			
2015	6-Jul-15	0	365.8	303.8			2575.8			
2015	6-Jul-15	1	273.6	266.2			2535.9			
2015	6-Jul-15	2	250.5	293.8			2712.9			
2015	6-Jul-15	3	318.5	495.2			2752.2			
2015	6-Jul-15	4	658.6	933.2			2718.2			
2015	6-Jul-15	5	1730.1	992.3			2540.4			
2015	6-Jul-15	6	1357.2	976.1			3016.3			
2015	6-Jul-15	7	1023.5	1108.4			3243.7			
2015	6-Jul-15	8	1006.5	612.7			3322.1			
2015	6-Jul-15	9	1018.2	947.6		0	3384.8			
2015	6-Jul-15	10	1022.6	906		0	3394.9			
2015	6-Jul-15	11	983.3	949.2		0.4	3395.2			
2015	6-Jul-15	12	841.1	675.9		0	3294.7			
2015	6-Jul-15	13	1000.4	758.3		0	3281.6			
2015	6-Jul-15	14	781.6	366.5		0	3161.2			
2015	6-Jul-15	15	808	559.5		0.6	3103.6			
2015	6-Jul-15	16	787.1	678.5		0	3268.4			
2015	6-Jul-15	17	794.7	619.1		0	3229.6			
2015	6-Jul-15	18	780.4	448		0	3177.1			
2015	6-Jul-15	19	746.9	456.9		0	3204.1			
2015	6-Jul-15	20	829.1	417.3		0	3133.7			
2015	6-Jul-15	21	897	564.7		0	3127.2			
2015	6-Jul-15	22	912.5	794.4		0	3307.2			
2015	6-Jul-15	23	892.1	935		0	3312.1			
2015	7-Jul-15	0	393.5	475.3		0	3089.1			
2015	7-Jul-15	1	178.6	316.1		0	2620.6			
2015	7-Jul-15	2	91.4	173.5		3.7	2170			
2015	7-Jul-15	3	94.1	132.2		163.8	2011			
2015	7-Jul-15	4	88.7	112.1		376.5	1989.6			
2015	7-Jul-15	5	91.7	124.4		476.3	1997.1			
2015	7-Jul-15	6	102.9	146.6		445.3	1962			
2015	7-Jul-15	7	86.1	152.2		514.2	1989.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	7-Jul-15	8	80.4	105.3		803.3	2083.7			
2015	7-Jul-15	9	73	139.3		801.2	2184.8			
2015	7-Jul-15	10	75.4	107.8		867.8	2362.3			
2015	7-Jul-15	11	77	117.8		1085.8	2423.7			
2015	7-Jul-15	12	77.7	111.4		1413.5	2557.3			
2015	7-Jul-15	13	106.1	206.2		1404.6	3003.6			
2015	7-Jul-15	14	59.9	240.9		1412.6	3134			
2015	7-Jul-15	15	55.5	546		1434.6	3242			
2015	7-Jul-15	16	105.9	583.3		1434.8	3277.8			
2015	7-Jul-15	17	92.1	591.6		1440.6	3242.2			
2015	7-Jul-15	18	102.6	419.3		1453.8	3000.7			
2015	7-Jul-15	19	113	503.9		1327.1	2635.5			
2015	7-Jul-15	20	120.6	348.8		991.1	2317.2			
2015	7-Jul-15	21	144.5	403.3		670.1	2290.4			
2015	7-Jul-15	22	388.7	670.3		1348.8	2928.7			
2015	7-Jul-15	23	444	871.1		1412.3	3217.2			
2015	8-Jul-15	0	409.9	572.1		860.4	3063			
2015	8-Jul-15	1	460.6	478.5		307.8	2706.5			
2015	8-Jul-15	2	383.5	360.5		207.7	2303.1			
2015	8-Jul-15	3	338.3	265		202.4	2020.3			
2015	8-Jul-15	4	272.2	253.3		388.4	2021.6			
2015	8-Jul-15	5	261.4	361.9		930.1	2027			
2015	8-Jul-15	6	276.1	354.1		987.4	1975.3			
2015	8-Jul-15	7	256.5	402.9		990.9	2019.4			
2015	8-Jul-15	8	246.6	368.9		918.4	2108.1			
2015	8-Jul-15	9	252.2	295.7		1081.9	2117.6			
2015	8-Jul-15	10	247.7	337.7		1333.4	2049.8			
2015	8-Jul-15	11	263.1	334.3		1351.1	2165.5			
2015	8-Jul-15	12	287.4	352.1		1160.3	2469.9			
2015	8-Jul-15	13	279.7	334.9		1316.6	2563			
2015	8-Jul-15	14	382.5	464		1434.1	2889.5			
2015	8-Jul-15	15	588.3	608.8		1350.2	3042.5			
2015	8-Jul-15	16	1470.3	912.6		846.4	2952.5			
2015	8-Jul-15	17	986.2	1149.9		573.3	2730.2			
2015	8-Jul-15	18	936.5	943.7		540.1	2438			
2015	8-Jul-15	19	1041.9	1014.5		535.3	2194.6			
2015	8-Jul-15	20	1200	896.3		526	2123.6			
2015	8-Jul-15	21	1234.9	1009.4		523.7	2077.9			
2015	8-Jul-15	22	970	719.1		514.9	2068.2			
2015	8-Jul-15	23	1042.1	712.8		514.9	2061.8			
2015	9-Jul-15	0	1100.6	389.6		522.1	2111.7			
2015	9-Jul-15	1	1018.7	489.9		570	2368.3			
2015	9-Jul-15	2	914.5	484.4		510.1	2360.8			
2015	9-Jul-15	3	652.1	519.1		511.5	2124.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	9-Jul-15	4	613.2	406.4		709.8	2098			
2015	9-Jul-15	5	533.6	320.1		1239	2132.8			
2015	9-Jul-15	6	567.6	446.7		1371.2	2456.6			
2015	9-Jul-15	7	691.2	565.8		1383.6	2462.9			
2015	9-Jul-15	8	1201.4	508.9		1390.6	2889			
2015	9-Jul-15	9	852	807.8		1392.5	3179.9			
2015	9-Jul-15	10	833.5	755		1381.6	3349.3			
2015	9-Jul-15	11	856.1	769.3		1397.2	3372.5			
2015	9-Jul-15	12	810.1	801.7		1406	3400.6			
2015	9-Jul-15	13	829.3	811.7		1383.5	3399.9			
2015	9-Jul-15	14	852.3	809		1370.8	3395.7			
2015	9-Jul-15	15	923.7	785.5		1405	3376.4			
2015	9-Jul-15	16	1011.9	769		1408.8	3344.9			
2015	9-Jul-15	17	1014.4	834.7		1234.7	3337			
2015	9-Jul-15	18	1005.6	697.3		791	3356.2			
2015	9-Jul-15	19	1006.2	750.7		541.6	3317.7			
2015	9-Jul-15	20	1070.6	731.3		529.4	3334.5			
2015	9-Jul-15	21	1070.7	818.9		474.1	3347.2			
2015	9-Jul-15	22	1057.8	752.7		477	3337.5			
2015	9-Jul-15	23	1177.1	784.7		479.3	3339.1			
2015	10-Jul-15	0	1013.7	600.3		475.7	3330.5			
2015	10-Jul-15	1	750.8	526.6		475.6	3026.9			
2015	10-Jul-15	2	501.5	405		473.9	2818			
2015	10-Jul-15	3	447.2	375.2		486.7	2564			
2015	10-Jul-15	4	544.6	440.8		690.1	2935.7			
2015	10-Jul-15	5	888.4	763.6		1262.9	3230.8			
2015	10-Jul-15	6	1053.2	848.9		1292.2	3269.3			
2015	10-Jul-15	7	1046.5	889.5		1285.7	3341.5			
2015	10-Jul-15	8	1037.2	717.6		1291.8	3329.9			
2015	10-Jul-15	9	959	818.1		1327.1	3317.6			
2015	10-Jul-15	10	518.9	795.4		1293.4	3329.8			
2015	10-Jul-15	11	550.6	836.2		1246.3	3328.4			
2015	10-Jul-15	12	578.7	720.3		1307.3	3281.6			
2015	10-Jul-15	13	653	818.6		1359.7	3328.8			
2015	10-Jul-15	14	661	810.1		1307.7	3344.7			
2015	10-Jul-15	15	655.8	738.3		1338.3	3320.3			
2015	10-Jul-15	16	655.7	715		1387.7	3309.5			
2015	10-Jul-15	17	665.3	737.8		1377.3	3315.4			
2015	10-Jul-15	18	663.7	760.3		1321.1	3292.9			
2015	10-Jul-15	19	655.7	745.5		1346.5	3290.1			
2015	10-Jul-15	20	636.5	679.9		1387.7	3277.2			
2015	10-Jul-15	21	503.8	599.7		1387	3291.9			
2015	10-Jul-15	22	410.9	455		1392.1	3281.6			
2015	10-Jul-15	23	458.2	557.8		1365.5	3257.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	11-Jul-15	0	361.4	443.1		950	3114.6			
2015	11-Jul-15	1	333.6	398.8		533.7	2842.6			
2015	11-Jul-15	2	283	498.9		464.9	2544.7			
2015	11-Jul-15	3	412.4	690.7		463.1	2253.5			
2015	11-Jul-15	4	271.3	596.8		473.3	2114.5			
2015	11-Jul-15	5	470.9	500.7		510.1	2301			
2015	11-Jul-15	6	641.1	618.1		490	2485.4			
2015	11-Jul-15	7	930.7	841.7		511.1	2964.1			
2015	11-Jul-15	8	429.7	798.1		528.5	3123.5			
2015	11-Jul-15	9	723.3	1027.3		519.8	3226			
2015	11-Jul-15	10	1277.6	1146.5		535.7	3355.7			
2015	11-Jul-15	11	1117.1	1215		514.7	3168.4			
2015	11-Jul-15	12	895.5	1465.1		513.5	3015.4			
2015	11-Jul-15	13	1389.4	1621.7		508.6	3106.7			
2015	11-Jul-15	14	751.6	922.3		493.4	3214.5			
2015	11-Jul-15	15	671.4	865.4		518.3	3261.6			
2015	11-Jul-15	16	576.7	787.6		490.4	3209.3			
2015	11-Jul-15	17	530.8	834.4		516.1	3219.3			
2015	11-Jul-15	18	527	786.4		515.9	3173.7			
2015	11-Jul-15	19	587.6	785.6		497.1	3248.4			
2015	11-Jul-15	20	565.7	606.8		489.9	3206.6			
2015	11-Jul-15	21	379.4	407.2		458.1	2972.6			
2015	11-Jul-15	22	317.4	305.5		430.1	2876.7			
2015	11-Jul-15	23	252	348.6		416.9	2641			
2015	12-Jul-15	0	230.4	457.7		403.7	2421			
2015	12-Jul-15	1	391.1	381.4		425.6	2163.7			
2015	12-Jul-15	2	329.7	308.8		412	2138.2			
2015	12-Jul-15	3	246.2	313.5		424.4	2155			
2015	12-Jul-15	4	244.1	291.8		463.6	2165.6			
2015	12-Jul-15	5	243.4	285.9		475.6	2215			
2015	12-Jul-15	6	233.1	294.7		474.9	2134.9			
2015	12-Jul-15	7	223.7	347.5		399.5	2275.5			
2015	12-Jul-15	8	208.4	366.4		412	2446.7			
2015	12-Jul-15	9	210.3	320.1		443.9	2516.4			
2015	12-Jul-15	10	248	399.5		459.1	2815.4			
2015	12-Jul-15	11	429.7	593.4		492.3	3354.5			
2015	12-Jul-15	12	422.6	590.7		517.9	3355			
2015	12-Jul-15	13	766.6	1023.7		502.8	3235.5			
2015	12-Jul-15	14	790	1494.7		521.2	3260.4			
2015	12-Jul-15	15	851.3	1390.3		450.9	3222.2			
2015	12-Jul-15	16	926.4	1513.9		484.3	3299.9			
2015	12-Jul-15	17	1083.9	1614.8		512.5	3354			
2015	12-Jul-15	18	455.1	751.5		520.9	3413.2			
2015	12-Jul-15	19	490.1	699		464.2	3247.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Jul-15	20	593.1	743.8		450.8	3348.2			
2015	12-Jul-15	21	708.2	815.1		458.9	3362.7			
2015	12-Jul-15	22	482.6	551.5		459.3	3076.9			
2015	12-Jul-15	23	425.8	827.5		492.6	2742.1			
2015	13-Jul-15	0	609.1	583.2		508	2434.3			
2015	13-Jul-15	1	475.5	366.9		528.1	2389			
2015	13-Jul-15	2	424.8	364.3		533.5	2227.5			
2015	13-Jul-15	3	309.3	283.6		531.1	2182.4			
2015	13-Jul-15	4	321.3	324.5		493.3	2384.5			
2015	13-Jul-15	5	372.6	353.9		496.3	2549.2			
2015	13-Jul-15	6	482.1	392.4		507.7	2554.2			
2015	13-Jul-15	7	372.4	249.6		525.9	2668.1			
2015	13-Jul-15	8	341.1	282.8		507.1	2852			
2015	13-Jul-15	9	303.9	339.2		513.8	3036.8			
2015	13-Jul-15	10	305.2	283.8		515.3	2771.2			
2015	13-Jul-15	11	297.4	279.6		512.1	2722			
2015	13-Jul-15	12	257.9	306.7		504.1	2880.8			
2015	13-Jul-15	13	246.1	308.3		508.2	2847.3			
2015	13-Jul-15	14	315	493.4		520.9	3089.5			
2015	13-Jul-15	15	351.3	691.4		522.6	3061.6			
2015	13-Jul-15	16	582.1	484.9		537.7	3145.5			
2015	13-Jul-15	17	559.1	339.9		595.8	3155.9			
2015	13-Jul-15	18	553.6	422.4		493.1	3164.5			
2015	13-Jul-15	19	476.1	781.7		494.2	3318.8			
2015	13-Jul-15	20	735.7	858.7		505	3359.4			
2015	13-Jul-15	21	803.5	751.4		530.8	3358.4			
2015	13-Jul-15	22	846.3	828.3		475.8	3194.7			
2015	13-Jul-15	23	873.6	886		487.1	2901.4			
2015	14-Jul-15	0	806.1	821.2		486.3	2665			
2015	14-Jul-15	1	829.2	810.3		484.6	2385.6			
2015	14-Jul-15	2	782.5	733.3		483	2162.6			
2015	14-Jul-15	3	475.6	510.2		487.9	2116.7			
2015	14-Jul-15	4	323.8	347.5		487.4	2107.1			
2015	14-Jul-15	5	309.2	263.6		484.3	2099.9			
2015	14-Jul-15	6	383.9	270		480.2	2300.7			
2015	14-Jul-15	7	559.7	330.3		477.1	2730.4			
2015	14-Jul-15	8	559.7	334		488.1	3003.1			
2015	14-Jul-15	9	992.1	610.3		560.7	3268.9			
2015	14-Jul-15	10	1082.6	591.4		480.6	3270.8			
2015	14-Jul-15	11	1257.2	783.3		500.2	3262.2			
2015	14-Jul-15	12	917.2	949		484.5	3413.4			
2015	14-Jul-15	13	944.4	1031.2		500.4	3426.1			
2015	14-Jul-15	14	990.6	1077.1		528.5	3428.1			
2015	14-Jul-15	15	1024.9	1097.9		507.7	3410.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	14-Jul-15	16	984.2	980.9		620	3428			
2015	14-Jul-15	17	1018.1	989		648	3395.8			
2015	14-Jul-15	18	1047.6	933.8		561	3256			
2015	14-Jul-15	19	1054.7	638.5		508	2955			
2015	14-Jul-15	20	849.4	403.1		510.3	2903.4			
2015	14-Jul-15	21	559.1	407.1		509.6	2917.5			
2015	14-Jul-15	22	318.9	248.2		348.825	2717.9			
2015	14-Jul-15	23	284.7	408.4			2386.9			
2015	15-Jul-15	0	296.3	390.8			2088.4			
2015	15-Jul-15	1	280.4	298.9			2061.6			
2015	15-Jul-15	2	269.6	271.1			2073			
2015	15-Jul-15	3	255	268.1			2065.4			
2015	15-Jul-15	4	242.1	233.4			2068.9			
2015	15-Jul-15	5	241.5	198.2			2069			
2015	15-Jul-15	6	277.4	300.4			2169.5			
2015	15-Jul-15	7	326.7	387.5			2634			
2015	15-Jul-15	8	329	515.8			2875.7			
2015	15-Jul-15	9	943.4	829.2			3001.7			
2015	15-Jul-15	10	1042.8	1098.8			2970.4			
2015	15-Jul-15	11	1041	986.5			2987.7			
2015	15-Jul-15	12	496.5	772.5			3069.3			
2015	15-Jul-15	13	732	926.9			3252.1			
2015	15-Jul-15	14	975.3	970.6			3285.7			
2015	15-Jul-15	15	1015.3	998			3294.8			
2015	15-Jul-15	16	1016	1005.4			3270.1			
2015	15-Jul-15	17	1009.8	1023.9			3274.3			
2015	15-Jul-15	18	974.7	980.6		0	3270.2			
2015	15-Jul-15	19	710.2	989.8		0	3184.8			
2015	15-Jul-15	20	611.9	857.6		1.7	3228.8			
2015	15-Jul-15	21	433.3	619.1		0	3072.9			
2015	15-Jul-15	22	390.2	396.8		0	2767.2			
2015	15-Jul-15	23	354.2	386.2		0	1995.5			
2015	16-Jul-15	0	243.2	274.2		0	183.629			
2015	16-Jul-15	1	167	213.5		0				
2015	16-Jul-15	2	126	148.8		0				
2015	16-Jul-15	3	87.1	182.2		0				
2015	16-Jul-15	4	66.8	257.5		0				
2015	16-Jul-15	5	168.5	592.9		0				
2015	16-Jul-15	6	267.3	1126.1		0				
2015	16-Jul-15	7	459.6	1722.9		0				
2015	16-Jul-15	8	605.9	770.6		0				
2015	16-Jul-15	9	771.5	926.6		0				
2015	16-Jul-15	10	690.6	933.8		0				
2015	16-Jul-15	11	805.9	957.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	16-Jul-15	12	896.2	943.4						
2015	16-Jul-15	13	924	979.5						
2015	16-Jul-15	14	953.3	917.9						
2015	16-Jul-15	15	760.4	856.1						
2015	16-Jul-15	16	673.8	650.5						
2015	16-Jul-15	17	703	653.3						
2015	16-Jul-15	18	666.8	649.6						
2015	16-Jul-15	19	680.2	730.5						
2015	16-Jul-15	20	678.9	604.3		0				
2015	16-Jul-15	21	698.8	701.8		0				
2015	16-Jul-15	22	800.6	707.3		0.9				
2015	16-Jul-15	23	736.3	705		0				
2015	17-Jul-15	0	598.6	310	0.048	0				
2015	17-Jul-15	1	457.9	356	0.067	0				
2015	17-Jul-15	2	727.8	188.3	0.066	0				
2015	17-Jul-15	3	559.8	173	0.066	0				
2015	17-Jul-15	4	531	205.5	0.067	0				
2015	17-Jul-15	5	922.1	303.8	0.084	172.4				
2015	17-Jul-15	6	618	580.6	0.087	525.9				
2015	17-Jul-15	7	431	776.5	0.107	507.5				
2015	17-Jul-15	8	344.8	493.8	0.241	829.3				
2015	17-Jul-15	9	528.5	640.8	0.259	1072.9				
2015	17-Jul-15	10	515.3	553.1	0.237	755.6				
2015	17-Jul-15	11	704.8	755.4	0.235	619.2				
2015	17-Jul-15	12	658.9	637.1	0.239	515.9				
2015	17-Jul-15	13	748.8	820.9	0.285	536.9				
2015	17-Jul-15	14	797.4	722.3	0.396	604.5	0			
2015	17-Jul-15	15	841.2	847.5	0.636	895.5	0			
2015	17-Jul-15	16	875.6	832.1	0.661	1226.1	0.3			
2015	17-Jul-15	17	899.8	860.1	0.475	1176.8	370.3			
2015	17-Jul-15	18	899.9	700.5	0.302	976.3	482.6			
2015	17-Jul-15	19	913.4	807.9	0.336	670.3	552.6			
2015	17-Jul-15	20	977.4	752.3	0.277	647.2	1129.2			
2015	17-Jul-15	21	991	801.9	0.264	591.4	1760.2			
2015	17-Jul-15	22	861.2	704.2	0.243	593.4	1885			
2015	17-Jul-15	23	425.9	515.2	0.053	593.6	2262.2			
2015	18-Jul-15	0	346.7	314.2	0.036	546.7	2727.3			
2015	18-Jul-15	1	227.4	337.4	0.036	551.1	3038.3			
2015	18-Jul-15	2	211.1	286.5	0.036	546.2	2607.1			
2015	18-Jul-15	3	208.7	445.2	0.036	546.8	2278.9			
2015	18-Jul-15	4	286	332	0.035	537.2	2260.3			
2015	18-Jul-15	5	233.7	354.1	0.035	543.8	2206.9			
2015	18-Jul-15	6	226.9	477.1	0.037	542.3	2117.3			
2015	18-Jul-15	7	278.3	636.4	0.047	545.4	2418.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	18-Jul-15	8	322.4	424.7	0.059	542.5	2508.7			
2015	18-Jul-15	9	372.7	452.5	0.102	539.4	2420.2			
2015	18-Jul-15	10	375.4	315	0.234	530.8	2296.7			
2015	18-Jul-15	11	519.9	562.5	0.236	531.5	2239.4			
2015	18-Jul-15	12	523.2	442	0.236	517.2	2185.5			
2015	18-Jul-15	13	455.1	488.1	0.237	517.9	2110			
2015	18-Jul-15	14	447.7	415.5	0.236	512	2204.3			
2015	18-Jul-15	15	428.4	487.4	0.236	507	2372.8			
2015	18-Jul-15	16	516	781.1	0.251	513.6	2555.1			
2015	18-Jul-15	17	529.7	914.8	0.274	525.2	2716.7			
2015	18-Jul-15	18	642.2	931.1	0.238	500.1	2734.9			
2015	18-Jul-15	19	501.5	834.3	0.132	499.3	2535.2			
2015	18-Jul-15	20	389.3	501	0.037	496	2380			
2015	18-Jul-15	21	461.3	673.7	0.037	502.4	2496.5			
2015	18-Jul-15	22	422.2	611	0.037	502	2360.9			
2015	18-Jul-15	23	236.7	406	0.037	494.4	2099.3			0
2015	19-Jul-15	0	164.9	203.8	0.039	492.9	2050.2			0
2015	19-Jul-15	1	286.6	141.2	0.052	494.7	2030.9			0
2015	19-Jul-15	2	251.3	119.1	0.052	493.7	2029.2			0
2015	19-Jul-15	3	281.9	123.1	0.04	491.2	2042.9			0
2015	19-Jul-15	4	508.4	227.3	0.037	494	1866.4			0
2015	19-Jul-15	5	718.5	313	0.038	490.3	2392.4			0
2015	19-Jul-15	6	689	347.5	0.049	490.5	2925.2			1.9
2015	19-Jul-15	7	656.6	321.3	0.052	499.6	3263.5			0
2015	19-Jul-15	8	771.8	343	0.049	504.7	3380.8			0
2015	19-Jul-15	9	899.9	446.4	0.056	499.8	3406.2			1.5
2015	19-Jul-15	10	459.9	534.9	0.108	521.9	3326.3			44.6
2015	19-Jul-15	11	512.7	679	0.251	547.3	3323.4			119
2015	19-Jul-15	12	487.6	576.6	0.238	547	3279.4			201
2015	19-Jul-15	13	763.1	815.5	0.339	621.7	3283.2			437.4
2015	19-Jul-15	14	1084.2	1021.2	0.48	804.2	3370.2			427
2015	19-Jul-15	15	571.1	830.4	0.743	1171.5	3407.7			453.2
2015	19-Jul-15	16	825.5	845.7	0.74	1043.7	3347			397.7
2015	19-Jul-15	17	875.5	876.6	0.636	938.4	3344.7			434.6
2015	19-Jul-15	18	877.1	883.6	0.447	919.8	3206.1			455.4
2015	19-Jul-15	19	1021.5	951.1	0.287	820.9	3328.4			460.2
2015	19-Jul-15	20	1102.7	951.8	0.037	795.1	3406.9			463.4
2015	19-Jul-15	21	595.1	667.3	0.036	600.9	3235.4			460.3
2015	19-Jul-15	22	376	381	0.037	520.1	2778.8			460.1
2015	19-Jul-15	23	210.6	319	0.038	498.2	2395.3	0.042		460.1
2015	20-Jul-15	0	156.1	439	0.04	496.6	2139.5	0.076		459.4
2015	20-Jul-15	1	86.7	341.7	0.041	503.9	2130.6	0.047		455.6
2015	20-Jul-15	2	80.5	335.8	0.041	497.7	2116.3	0.047		455.7
2015	20-Jul-15	3	85.5	396.7	0.041	495.7	2124	0.047		454.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	20-Jul-15	4	116.7	436.8	0.04	492	2119.7	0.047		430.8
2015	20-Jul-15	5	115.4	434.7	0.04	493.4	2112.9	0.047		357.5
2015	20-Jul-15	6	123.9	444.1	0.048	492	2138.4	0.059		389.3
2015	20-Jul-15	7	150.4	742.6	0.054	486.4	2378	0.062		395.3
2015	20-Jul-15	8	291.2	1154.8	0.054	493.9	2246.2	41.112		399.4
2015	20-Jul-15	9	335.1	1174.3	0.092	494.6	2393.5	250.562		395.2
2015	20-Jul-15	10	351.1	1245.9	0.237	489.6	2446.3	495.561		414.1
2015	20-Jul-15	11	530	915.8	0.294	544.7	2838.2	587.352		504.4
2015	20-Jul-15	12	657.5	738.7	0.427	604.7	3173.9	583.462		574.4
2015	20-Jul-15	13	723.6	755.1	0.727	1087	3311.6	1204.608		673.1
2015	20-Jul-15	14	715.9	766.1	0.799	1290	3317.5	2482.8		689.1
2015	20-Jul-15	15	748.7	784.4	0.799	1262.8	3354.7	2781.9		692.1
2015	20-Jul-15	16	767.6	762.2	0.793	1225.7	3409.6	2787.8		694.8
2015	20-Jul-15	17	793.5	728.3	0.791	1316.9	3401.1	2768.9		693.4
2015	20-Jul-15	18	768.2	755	0.797	1339.5	3390.9	2745.5		698.9
2015	20-Jul-15	19	789.6	770.5	0.78	1322.5	3312	2519.9		693.1
2015	20-Jul-15	20	815.7	773.1	0.425	1057.4	3308	1754.2		675.7
2015	20-Jul-15	21	648.3	640.6	0.051	924.8	3224.2	157.928		632.2
2015	20-Jul-15	22	366.8	405.6	0.04	627.1	2899.4			512.2
2015	20-Jul-15	23	233.3	241.1	0.04	535.4	2484.3			419.3
2015	21-Jul-15	0	170	221.4	0.04	538.1	2254.3			416
2015	21-Jul-15	1	236.3	144.4	0.041	550.3	2087.1			411.2
2015	21-Jul-15	2	254	123.5	0.041	562.2	2070			424.7
2015	21-Jul-15	3	237.7	105.1	0.041	548.1	2072.3			428.4
2015	21-Jul-15	4	285.7	129.7	0.041	533.8	2070.7			417.5
2015	21-Jul-15	5	313.9	160.5	0.041	542.4	2094.9			410.5
2015	21-Jul-15	6	256.1	164.1	0.04	530.3	2055.3			405.7
2015	21-Jul-15	7	250.2	152.6	0.06	525.8	2091.3			401.1
2015	21-Jul-15	8	246.8	144.3	0.185	536.8	2349.6			391.5
2015	21-Jul-15	9	325.5	187.1	0.366	532	2797.7			393.9
2015	21-Jul-15	10	402	175.8	0.786	508.5	2905.4			397
2015	21-Jul-15	11	418.4	208.3	0.864	505.5	2768.1			402.8
2015	21-Jul-15	12	452.1	188.9	0.865	506.9	2614.4			395.4
2015	21-Jul-15	13	826.1	208.6	0.864	488.1	2753.7			439.4
2015	21-Jul-15	14	748	198.5	0.864	484.9	2854.3			504
2015	21-Jul-15	15	796.3	238.4	0.863	498.1	2992.3			554.7
2015	21-Jul-15	16	762.9	268.9	0.745	489.1	3064.2			583.8
2015	21-Jul-15	17	806.3	394.3	0.51	497.4	3270.3			610.5
2015	21-Jul-15	18	931.7	456.3	0.548	542.2	3324.4			649.9
2015	21-Jul-15	19	1010.7	827.3	0.157	493.3	3322.4			659.1
2015	21-Jul-15	20	683.8	747.7		516.2	3288.5			677.6
2015	21-Jul-15	21	451.8	681.4		487.5	3094.4			691.5
2015	21-Jul-15	22	555.7	487.2		492.2	2838.4			697.3
2015	21-Jul-15	23	985.3	419.8		499	2452.2			634.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	22-Jul-15	0	504.7	377		96.32	2229			547.4
2015	22-Jul-15	1	679.9	668.5			2136.9			454.4
2015	22-Jul-15	2	880.8	901			2100			399.8
2015	22-Jul-15	3	891.5	911.6			2082.7			398
2015	22-Jul-15	4	872.7	882.2			2118.7			417.2
2015	22-Jul-15	5	976.9	1003.4			2394.4			587
2015	22-Jul-15	6	693.8	853.7			2751.5			512.8
2015	22-Jul-15	7	641.6	983.4			2743.9			379.3
2015	22-Jul-15	8	542.7	769.6			2565.2			378.2
2015	22-Jul-15	9	616.9	837.2			2550.7			400.8
2015	22-Jul-15	10	916.8	1053.8			3009.3			587
2015	22-Jul-15	11	1029.8	961.2			3311.9			740.9
2015	22-Jul-15	12	1029.1	1019.6			3350.7			652.7
2015	22-Jul-15	13	1076.5	1007.9			3310.6			554.5
2015	22-Jul-15	14	998.4	973			3439.8			563.6
2015	22-Jul-15	15	993.3	1061.9			3453			629.6
2015	22-Jul-15	16	979.7	1034.2			3440.4			671.3
2015	22-Jul-15	17	967.5	1068.3			3406.6			701.6
2015	22-Jul-15	18	953.4	1025.2			3331.5			606.1
2015	22-Jul-15	19	977.3	1004.3			3407.8			525.9
2015	22-Jul-15	20	996.1	919			3378.5			537.9
2015	22-Jul-15	21	1014.4	1079.6			3242.1			394.7
2015	22-Jul-15	22	982.5	1042.2			3011.3			397.9
2015	22-Jul-15	23	867.9	1001.1			2694.6			386.8
2015	23-Jul-15	0	540.9	553.8			2321.1			383.1
2015	23-Jul-15	1	399.1	417.8			2232.3			381.9
2015	23-Jul-15	2	391.9	352.2			2137.2			376.3
2015	23-Jul-15	3	715.2	603.1			2125			378
2015	23-Jul-15	4	603.7	644.4			2179.4			378.5
2015	23-Jul-15	5	949.3	970.9			2335.6			380.8
2015	23-Jul-15	6	775.6	783.6			2136.2			388.2
2015	23-Jul-15	7	872.4	1063.6			2483.1			386.1
2015	23-Jul-15	8	775.9	993.9			2374.8			388.9
2015	23-Jul-15	9	892.7	1067.9			2210.1			394.9
2015	23-Jul-15	10	877.4	1042.8			2702.3			544.4
2015	23-Jul-15	11	986.8	1073.5			3205.7			544.4
2015	23-Jul-15	12	987.8	1049.5			3472			540.7
2015	23-Jul-15	13	1041	1038.6			3491.4			576.1
2015	23-Jul-15	14	1033.5	1044.7			3525			710.1
2015	23-Jul-15	15	1016.9	1033			3530.4			740.6
2015	23-Jul-15	16	974.6	1018.5			3513.4			723.1
2015	23-Jul-15	17	1011.8	1026.6			3499.9			652.9
2015	23-Jul-15	18	987.8	1017.2			3483.4			554.9
2015	23-Jul-15	19	973.3	967.5			3509.7			546.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Jul-15	20	913.8	970			3442.6			501
2015	23-Jul-15	21	704.1	775.5			3242.9			468.2
2015	23-Jul-15	22	658.5	779.7			2857			413.4
2015	23-Jul-15	23	624.4	760.7			2525.1			414.1
2015	24-Jul-15	0	653.7	795.9			2364.8			476
2015	24-Jul-15	1	884.2	1030.7			2820			673.8
2015	24-Jul-15	2	560.9	643.2			2804.4			556.5
2015	24-Jul-15	3	364.6	361.4			2612.3			440.3
2015	24-Jul-15	4	293.6	292.1			2284.8			401.2
2015	24-Jul-15	5	327.2	257.8			2223.9			405.5
2015	24-Jul-15	6	526.1	611.3			2307.5			512.4
2015	24-Jul-15	7	628.8	812			2178.5			517.9
2015	24-Jul-15	8	746.1	591.4			2162.7			523.4
2015	24-Jul-15	9	888.5	698.8			2309.1			523.3
2015	24-Jul-15	10	798.7	751.3			2492.8			539.2
2015	24-Jul-15	11	781.6	801.1			2427			512.1
2015	24-Jul-15	12	891.3	850.7			2881			519.8
2015	24-Jul-15	13	896.1	903.5			3010.4			647.3
2015	24-Jul-15	14	934.2	879.2			3293.7			728.2
2015	24-Jul-15	15	910.4	943.4			3569.6			740.5
2015	24-Jul-15	16	890.6	904.9			3599			726.4
2015	24-Jul-15	17	939.4	990.4			3606.2			737.9
2015	24-Jul-15	18	950.7	1001.1			3547.1			677.6
2015	24-Jul-15	19	827.4	786.4			3270.3			577.5
2015	24-Jul-15	20	621.2	376.6			2843.5			461.2
2015	24-Jul-15	21	530.4	444.7			2817.6			544.1
2015	24-Jul-15	22	878.8	777.1			2661.5			723.9
2015	24-Jul-15	23	915.3	911.5			2300.8			690.6
2015	25-Jul-15	0	644.2	388.6			2194.9			627.7
2015	25-Jul-15	1	448.8	544.2			2175.3			243.95
2015	25-Jul-15	2	249	400.9			2178.2			
2015	25-Jul-15	3	174.6	309			2178			
2015	25-Jul-15	4	132.8	326.8			2201.8			
2015	25-Jul-15	5	73.7	312.9			2207.6			
2015	25-Jul-15	6	66.1	369.3			2246.6			
2015	25-Jul-15	7	125.1	646.5			3144.9			
2015	25-Jul-15	8	178	788.5			3345.9			
2015	25-Jul-15	9	377.2	1044.4			3483.3			
2015	25-Jul-15	10	680.2	1271.6			3543.8			
2015	25-Jul-15	11	898.9	1076			3562.9			
2015	25-Jul-15	12	923.1	1075.2			3561.8			
2015	25-Jul-15	13	957.6	1104.5			3541.1			
2015	25-Jul-15	14	978.9	1065.1			3543.4			
2015	25-Jul-15	15	1028.8	1120.3			3546.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	25-Jul-15	16	989.8	1077.7			3572.4			
2015	25-Jul-15	17	1028.2	1141.1			3554.1			
2015	25-Jul-15	18	1040.9	1119			3535			
2015	25-Jul-15	19	938.9	1141.5			3487.9			
2015	25-Jul-15	20	673	967.7			3290.5			
2015	25-Jul-15	21	655.3	812.1			3115.7			
2015	25-Jul-15	22	621.4	795.7			2854.6			
2015	25-Jul-15	23	427.1	632			2524.3			
2015	26-Jul-15	0	898.6	606			2342.6			
2015	26-Jul-15	1	563.7	402.4	0.014		2251.8			
2015	26-Jul-15	2	410.7	276	0.063		2194.4			
2015	26-Jul-15	3	284.5	403.1	0.067		2185.3			
2015	26-Jul-15	4	246.3	361.2	0.084		2166.5			
2015	26-Jul-15	5	251.7	336	0.103		2166.6			
2015	26-Jul-15	6	215.5	329.8	0.077		2162			
2015	26-Jul-15	7	184.4	362	0.069		2257.5			
2015	26-Jul-15	8	297.7	602.2	0.079		2380.3			
2015	26-Jul-15	9	452.7	965.3	0.156		2309.4			
2015	26-Jul-15	10	812.8	1277.7	0.244		2532.2			
2015	26-Jul-15	11	976.6	807.3	0.246		2635.3			
2015	26-Jul-15	12	881.3	918	0.243		2915.6			
2015	26-Jul-15	13	1010.9	1056.8	0.29		3108.6			
2015	26-Jul-15	14	939.2	911.8	0.492		3412.3			
2015	26-Jul-15	15	885.1	831.9	0.374		3461.8			
2015	26-Jul-15	16	645.4	461.4	0.243		3192.1			
2015	26-Jul-15	17	469.6	420	0.238		3087.1			
2015	26-Jul-15	18	350.4	406.5	0.237		2950.5			
2015	26-Jul-15	19	824.1	789.5	0.143		2711.4			
2015	26-Jul-15	20	939.8	928.5	0.037		2943.2			
2015	26-Jul-15	21	547.5	750	0.037		2617.8			
2015	26-Jul-15	22	358.2	493.7	0.037		2289.6			
2015	26-Jul-15	23	305.3	409.7	0.047		2205.2			
2015	27-Jul-15	0	303.9	331	0.052		2219.1			
2015	27-Jul-15	1	401	489.4	0.052		2196			
2015	27-Jul-15	2	791.4	843.1	0.039		2182.9			
2015	27-Jul-15	3	639.5	487.2	0.042		2167.5			
2015	27-Jul-15	4	540.4	467.5	0.052		2164.5			
2015	27-Jul-15	5	535.3	463.5	0.052		2192.3			
2015	27-Jul-15	6	483	589.4	0.052		2291.3			
2015	27-Jul-15	7	870.2	1107.7	0.052		2749.9			
2015	27-Jul-15	8	1320.2	1856.1	0.052		3319.8			
2015	27-Jul-15	9	1573	952.9	0.101		3454.4			
2015	27-Jul-15	10	977.4	896.5	0.223		3301			
2015	27-Jul-15	11	860.3	936.8	0.24		3139.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	27-Jul-15	12	995.7	1032.5	0.259		3378.1			
2015	27-Jul-15	13	1126.3	1123.4	0.327		3470.1			
2015	27-Jul-15	14	1090.7	1067.4	0.612		3541.2			
2015	27-Jul-15	15	1140.7	1113	0.694		3524.6			
2015	27-Jul-15	16	1094.1	1036.4	0.874		3489.9			
2015	27-Jul-15	17	1179.2	1110.7	0.797		3519.6			
2015	27-Jul-15	18	1075.7	1093.1	0.504		3456			
2015	27-Jul-15	19	1137.8	1079.4	0.315		3317.7			
2015	27-Jul-15	20	959.2	989.1	0.188		3321.6			
2015	27-Jul-15	21	568.5	776.4	0.039		3123.8			
2015	27-Jul-15	22	299.1	391.8	0.039		2664.4			
2015	27-Jul-15	23	424	403.7	0.039		2279.1			
2015	28-Jul-15	0	381	534.7	0.04		2193.9			
2015	28-Jul-15	1	311.2	320.5	0.054		2203.3			
2015	28-Jul-15	2	302.4	302.5	0.054		2260.4			
2015	28-Jul-15	3	301.6	332.8	0.055		2252.9			
2015	28-Jul-15	4	286.9	318	0.055		2249.5			
2015	28-Jul-15	5	296.3	304.1	0.05		2240.6			
2015	28-Jul-15	6	243.1	318.4	0.039		2237.3			
2015	28-Jul-15	7	296.6	378	0.045		2246.3			
2015	28-Jul-15	8	407.5	548.1	0.054		2383.8			
2015	28-Jul-15	9	498.6	655.8	0.057	0	2872			
2015	28-Jul-15	10	549.9	1075.7	0.087	0	3257			
2015	28-Jul-15	11	776.1	1362.2	0.21	0	3379.1			
2015	28-Jul-15	12	1134.7	1485.1	0.292	0	3534.8			
2015	28-Jul-15	13	782.9	935.3	0.441	0	3584.8			
2015	28-Jul-15	14	944.4	958.1	0.776	0	3562.4			
2015	28-Jul-15	15	1034.9	1036.9	0.87	0	3575.9			
2015	28-Jul-15	16	933	989.3	0.87	0	3554.6			
2015	28-Jul-15	17	816.3	972.5	0.85	0	3557.7			0
2015	28-Jul-15	18	745.9	828	0.522	0	3358.3			0
2015	28-Jul-15	19	781.6	947.4	0.31	0	3302.2			0.7
2015	28-Jul-15	20	784.6	922.2	0.339	0	3378.4	0.031	0.747	0
2015	28-Jul-15	21	727.5	778.3	0.343	0	3290.4	0.051	0.2	0
2015	28-Jul-15	22	522.3	484.2	0.351	0	3025.4	0.062	1	0
2015	28-Jul-15	23	436.9	365.4	0.346	0	2621.8	0.086	5.2	0.8
2015	29-Jul-15	0	384	297.4	0.344	0	2316.1	0.109	12.2	1
2015	29-Jul-15	1	290.2	216.4	0.341	0	2237.5	0.109	18.9	2.8
2015	29-Jul-15	2	451.9	178.4	0.341	0	2200.2	0.082	21.1	0
2015	29-Jul-15	3	308.5	145.3	0.338	111.6	2200.9	0.057	24.5	1.8
2015	29-Jul-15	4	156.1	227.6	0.41	454.7	2289.5	0.06	29.4	43.4
2015	29-Jul-15	5	223.6	440.9	0.799	782.1	2672.5	0.047	32.3	79.8
2015	29-Jul-15	6	295.2	496.5	0.859	1049.8	3146	0.047	34.7	175.9
2015	29-Jul-15	7	265.3	481.6	0.863	1025.3	3397.2	0.047	40.7	219.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	29-Jul-15	8	301.3	321	0.861	574.9	3291.9	0.05	64.3	294
2015	29-Jul-15	9	402	363.1	0.86	443.8	3059	0.062	38.8	374.3
2015	29-Jul-15	10	541.2	371.9	0.857	447.6	3081.7	353.9	44.8	414.1
2015	29-Jul-15	11	638	404.7	0.442	415.1	3159.7	546.3	68	441.7
2015	29-Jul-15	12	782.1	378.2	0.262	399.8	3274.2	827.4	122.1	439.3
2015	29-Jul-15	13	1156.3	427.7	0.377	449.7	3508	824.2	213.2	533.9
2015	29-Jul-15	14	1191.8	464.6	0.286	446.3	3473.1	1877.8	266.1	502
2015	29-Jul-15	15	1318.1	594.6	0.238	447.3	3381.3	2264	267.1	457.7
2015	29-Jul-15	16	1384.4	727.7	0.246	445.8	3323.9	2438.4	450.1	471.2
2015	29-Jul-15	17	1426.3	865.2	0.244	445.3	3368.5	1664.4	449.7	473.8
2015	29-Jul-15	18	1456.2	824	0.239	450.4	3370.5	1722.9	474	474.2
2015	29-Jul-15	19	1303.8	895.3	0.064	457.6	3218.4	835.7	465.8	443.4
2015	29-Jul-15	20	1149	732.2	0.04	452.1	3219.2	796.7	462.8	410.1
2015	29-Jul-15	21	747.9	568.8	0.04	445.4	2939.6	931.8	456.1	406.6
2015	29-Jul-15	22	432.7	268.2	0.04	450.9	2548.2	1121.9	461.5	400
2015	29-Jul-15	23	304.7	169	0.04	453.2	2216.8	1303.1	463.1	400.5
2015	30-Jul-15	0	212.1	156.8	0.04	450.9	2189.6	832.3	451.6	403.1
2015	30-Jul-15	1	151	153.3	0.04	453.4	2164.4	790.4	481.9	400.4
2015	30-Jul-15	2	148.2	132.8	0.039	457.9	2161.6	785.5	444.6	400.9
2015	30-Jul-15	3	143.3	131.6	0.039	455.9	2160.5	782.7	445.9	405.1
2015	30-Jul-15	4	116.2	115.5	0.039	457	2154.6	782	439.2	410.5
2015	30-Jul-15	5	110.4	123.8	0.039	462.3	2168.8	1577.1	434	406.6
2015	30-Jul-15	6	90.8	114.9	0.045	454.2	2162.7	2817.6	425	407.5
2015	30-Jul-15	7	65.9	94.9	0.053	453.7	2161.9	2773.6	420.7	400.5
2015	30-Jul-15	8	67.6	74.4	0.092	454.2	2179.6	2793.5	423	401.1
2015	30-Jul-15	9	66	101.1	0.205	451.3	2375.9	2795.1	426.2	402.3
2015	30-Jul-15	10	71.3	90.9	0.238	457.5	2522.5	2798.8	424.4	399.7
2015	30-Jul-15	11	60.6	93.6	0.232	462.8	2534.3	2798.7	386.6	402.5
2015	30-Jul-15	12	68	84.1	0.231	454.2	2467	2798	463	396.4
2015	30-Jul-15	13	56.7	92.2	0.231	469.1	2273.6	2797.5	463.4	394.9
2015	30-Jul-15	14	59.2	68.7	0.231	446.4	2203	2803.8	480	392.8
2015	30-Jul-15	15	48.3	85.6	0.233	442.6	2212.9	2807.8	477.3	391
2015	30-Jul-15	16	99.4	72.6	0.232	442.3	2250.8	2806	478.4	396.9
2015	30-Jul-15	17	74.4	79.7	0.232	444.1	2392.5	2803.4	479.2	393.6
2015	30-Jul-15	18	69.4	86.2	0.053	452	2749.2	2698.1	478.9	399.9
2015	30-Jul-15	19	200.5	72.4		472.3	2516.9	1332.5	493.3	395.7
2015	30-Jul-15	20	269.9	96.4		475.7	2310.4	224.655	489.7	392.9
2015	30-Jul-15	21	245.2	231.5		462.5	2166.8		483.6	392.9
2015	30-Jul-15	22	132.5	164.5		261.29	2173.3		481.9	385.8
2015	30-Jul-15	23	65.6	164.6			2174.6		487.7	381.1
2015	31-Jul-15	0	22.4	117			2172.9		489	382.8
2015	31-Jul-15	1	4.4	99.8			2174.9		493.1	388.1
2015	31-Jul-15	2	3.4	86			2175		491.4	387.3
2015	31-Jul-15	3	2.3	89.8			2158.2		485.8	385.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	31-Jul-15	4	37.7	83.2			2167.9		482.4	385.4
2015	31-Jul-15	5	81.3	101.5			2178.6		496.3	381.2
2015	31-Jul-15	6	91.1	100.8			2172.5		518.5	383.1
2015	31-Jul-15	7	122.7	177.1			2180.2		504.9	372.7
2015	31-Jul-15	8	121.2	198.8			2189.1		513.7	374.7
2015	31-Jul-15	9	136.3	258.7			2191.2		515.8	381
2015	31-Jul-15	10	159.5	246.5			2184.3		507	375.7
2015	31-Jul-15	11	109.4	216.8			2172.5		529.2	391.5
2015	31-Jul-15	12	113.5	182.2			2180.2		539.6	390.2
2015	31-Jul-15	13	89	178.2			2246.6		475.5	387
2015	31-Jul-15	14	71.4	156.9			2423.6		531.4	418.8
2015	31-Jul-15	15	58.1	162.9			2362.6		530.8	414.4
2015	31-Jul-15	16	66.5	104.6			2327.5		523.9	400.7
2015	31-Jul-15	17	57.7	108.5			2283.9		528.7	399.6
2015	31-Jul-15	18	63.3	92.1			2270.4		537.5	403.7
2015	31-Jul-15	19	54.6	108.6			2230.2		516.4	399.1
2015	31-Jul-15	20	60	91.7			2224.5		489.6	400.2
2015	31-Jul-15	21	50.8	111.7			2220.8		475.9	395.8
2015	31-Jul-15	22	86	105			2208.5		475.6	395
2015	31-Jul-15	23	111.4	122.2			2221.4		472.1	401.2
2015	1-Aug-15	0	117.7	109.8			2254.1		469.3	411.8
2015	1-Aug-15	1	92.5	133.1			2261.8		624.2	418.4
2015	1-Aug-15	2	119.2	100.8			2259.5		686.7	406.1
2015	1-Aug-15	3	102.3	109.8			2253.9		676.5	401.6
2015	1-Aug-15	4	117.7	94.2			2268.9		692.5	395.4
2015	1-Aug-15	5	140.2	112			2256.6		695.8	414
2015	1-Aug-15	6	185.3	117.5			2209.5		731.5	424.7
2015	1-Aug-15	7	508	200.8			2280.4		663.6	420.3
2015	1-Aug-15	8	673.4	408.6			2269.6		518.3	422.6
2015	1-Aug-15	9	665.4	713.5			2272.9		513.8	420.9
2015	1-Aug-15	10	498.8	432.1			2271.3		507.3	415.5
2015	1-Aug-15	11	744.6	386.1			2321.5		501.8	421.2
2015	1-Aug-15	12	795.1	549.6			2570		502	411.5
2015	1-Aug-15	13	1392.6	773.6			2575.7		509.4	419.3
2015	1-Aug-15	14	1394.5	956.4			2580.3		512.2	432.5
2015	1-Aug-15	15	1063.4	1018.1			2742.5		557.6	468.3
2015	1-Aug-15	16	998.9	977.8			2683.5		552.1	469.7
2015	1-Aug-15	17	1040.9	1006.6			2940.7		561.4	410.9
2015	1-Aug-15	18	893.8	880.8			3176.3		556.4	412.1
2015	1-Aug-15	19	698.4	784.9			2805.1		567	412.9
2015	1-Aug-15	20	531	574.5			2388.6		574.1	416.5
2015	1-Aug-15	21	325.9	496.5			2281.8		577.2	419.5
2015	1-Aug-15	22	271.4	281.7			2299.9		576.2	418.4
2015	1-Aug-15	23	141.8	434.3			2306.4		571.9	417.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	2-Aug-15	0	61.2	425.5			2299.8		567.2	414.8
2015	2-Aug-15	1	24.8	381.3			2320		567	417
2015	2-Aug-15	2	73.3	309.1			2314.5		561.7	411.9
2015	2-Aug-15	3	166.9	241			2297.6		553.9	407.2
2015	2-Aug-15	4	191.6	235.4			2285.8		551	404.1
2015	2-Aug-15	5	339.5	448.6			2375		559.8	417.1
2015	2-Aug-15	6	440.8	721.5			2270.4		544.6	399.7
2015	2-Aug-15	7	653	727.9			2282.6		546.9	402.2
2015	2-Aug-15	8	706.2	687.7			2292.1		538.8	400
2015	2-Aug-15	9	696.6	777.5			2293.6		534.6	401.6
2015	2-Aug-15	10	869.3	843.9			2474.8		543.8	396
2015	2-Aug-15	11	321.9	1030.2			2423.4		551.8	406.3
2015	2-Aug-15	12	273.6	816.7			2422.3		555.2	405.7
2015	2-Aug-15	13	192	407.1			2399.1		549.7	409.9
2015	2-Aug-15	14	277.7	547.3			2512.3		554.8	409.9
2015	2-Aug-15	15	408.7	720.9			2524.6		569	438.1
2015	2-Aug-15	16	494.6	707.8			2794.6		658	528.1
2015	2-Aug-15	17	581.3	803			2883.1		549.5	392.9
2015	2-Aug-15	18	625.7	847.8			2882.5		567.6	395.7
2015	2-Aug-15	19	565.3	737.6			2585.7		551.5	380.6
2015	2-Aug-15	20	455.3	566.2			2302.5		575.5	359.2
2015	2-Aug-15	21	383	488.1			2265.5		557.6	365.9
2015	2-Aug-15	22	260.3	326.3			2256.5		553.1	369.9
2015	2-Aug-15	23	277.6	370.5			2255.2		550.2	385.7
2015	3-Aug-15	0	382.9	432.7			2252.9		547.8	383.8
2015	3-Aug-15	1	291.9	333.8	0.014		2256.8		547.9	375.8
2015	3-Aug-15	2	289.4	323.1	0.07		2270.7		565.6	384.1
2015	3-Aug-15	3	286.6	335	0.079		2252.8		562.2	388.6
2015	3-Aug-15	4	352.9	469.7	0.078		2251.1		556.5	391.6
2015	3-Aug-15	5	659.6	795.6	0.078		2272.4		549.8	391.1
2015	3-Aug-15	6	840.2	890.4	0.078		2202.1		542.3	394.1
2015	3-Aug-15	7	825.7	879.3	0.071		2227.2		540.4	393.7
2015	3-Aug-15	8	688.7	632.7	0.069		2188.6		545.3	396.2
2015	3-Aug-15	9	573.5	511.7	0.125		2194.5		544.7	398
2015	3-Aug-15	10	428.4	483.4	0.221		2179.3		506.5	397.2
2015	3-Aug-15	11	361.2	369.4	0.249		2167.9		497.4	396.7
2015	3-Aug-15	12	269.6	380.1	0.244		2339.3		514.9	392.1
2015	3-Aug-15	13	240.1	600.4	0.239		2608		520.3	380.8
2015	3-Aug-15	14	489.5	899.1	0.281		3123.1		514.9	384.3
2015	3-Aug-15	15	818.3	826.8	0.246		3174.3		513.5	386
2015	3-Aug-15	16	871.1	520.8	0.239		3000.1		518	388.9
2015	3-Aug-15	17	868.1	425.6	0.238		2521.4		519.6	380.2
2015	3-Aug-15	18	805.6	377.5	0.238		2286.2		515.5	379
2015	3-Aug-15	19	781.6	342.8	0.067		2290.4		515.7	379.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	3-Aug-15	20	774.6	318.3			2296		544.6	380.1
2015	3-Aug-15	21	746.8	251.3			2308.3		537.4	379.3
2015	3-Aug-15	22	688	213			2316.3		563.5	378.1
2015	3-Aug-15	23	381.5	256.3			2340.4		551.8	375.8
2015	4-Aug-15	0	328	318.1			2335.1		564.8	370.2
2015	4-Aug-15	1	279.1	341.7			2332.3		537.6	374
2015	4-Aug-15	2	224.5	321			2339.5		530.8	377.9
2015	4-Aug-15	3	226.5	324.9			2348.2		534	379.9
2015	4-Aug-15	4	215.4	294.2			2334.4		527.9	377.4
2015	4-Aug-15	5	184.9	285.1			2344		526.1	374.7
2015	4-Aug-15	6	132.7	308.2			2318.6		514.2	377.9
2015	4-Aug-15	7	91.3	318.2			2366.3		517.1	378.9
2015	4-Aug-15	8	67.8	314.2			2363.1		518	377
2015	4-Aug-15	9	87.3	312.9			2471		513.7	371.2
2015	4-Aug-15	10	149.3	398.2			2777.8		510.7	374.9
2015	4-Aug-15	11	191.7	535.2			2799.5		508.6	383.5
2015	4-Aug-15	12	331.6	474.2			3126.1		535.6	368.9
2015	4-Aug-15	13	653.7	546.9			3526.5		536.8	378.5
2015	4-Aug-15	14	703	808.2			3734.3		537.5	366.1
2015	4-Aug-15	15	647.4	790.7			3882.5		546.7	361.4
2015	4-Aug-15	16	635.4	729.6			3848		541.3	371.5
2015	4-Aug-15	17	555.1	663.1			3556.3		536.6	366.9
2015	4-Aug-15	18	281.7	496.8			3165.7		586.6	372
2015	4-Aug-15	19	354.1	378.4			2753.4		576.6	368.3
2015	4-Aug-15	20	258.2	252.2			2485.3		560.5	362.1
2015	4-Aug-15	21	215	192.1			2497.5		546.8	356.7
2015	4-Aug-15	22	239.4	163.3			2440.8		539.4	330
2015	4-Aug-15	23	233.5	141.6			2420.1		428.2	212.8
2015	5-Aug-15	0	234.1	136.9			2432.6		107.175	8.68
2015	5-Aug-15	1	230	143.6			2427.7			
2015	5-Aug-15	2	233.8	140.4			2441.6			
2015	5-Aug-15	3	246	144.3			2454.4			
2015	5-Aug-15	4	262.3	167			2442.9			
2015	5-Aug-15	5	596.7	355.6			2484.5			
2015	5-Aug-15	6	650.2	473.1			2527.6			
2015	5-Aug-15	7	659	511.8			2754.1			
2015	5-Aug-15	8	616.9	428.5			2570.7			
2015	5-Aug-15	9	730.7	666.7			2640.5			
2015	5-Aug-15	10	686.3	794.3			2784.9			
2015	5-Aug-15	11	693.5	853.4			2758.3			
2015	5-Aug-15	12	717.4	883.2			3212.8			
2015	5-Aug-15	13	693.4	932.7			3729.4			
2015	5-Aug-15	14	701.7	789.9			3888.8			
2015	5-Aug-15	15	728.8	851.7			3847.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	5-Aug-15	16	691.4	848			3758.1			
2015	5-Aug-15	17	708.6	888			3737.6			
2015	5-Aug-15	18	641.9	830			3498.2			
2015	5-Aug-15	19	699.9	771.2			3235.3			
2015	5-Aug-15	20	661.9	715.4			3177.8			
2015	5-Aug-15	21	566.5	561.9			2639.6			
2015	5-Aug-15	22	397.1	380.4			2221.3			
2015	5-Aug-15	23	217.8	232.6			2228.8			
2015	6-Aug-15	0	124.1	202			2246.7			
2015	6-Aug-15	1	72.2	163.9			2227.2			
2015	6-Aug-15	2	68.7	140			2207.8			
2015	6-Aug-15	3	60.4	134.8			2214.5			
2015	6-Aug-15	4	63.4	124.7			2210.7			
2015	6-Aug-15	5	62.2	177.3			2210.5			
2015	6-Aug-15	6	128.4	304.9			2206.5			
2015	6-Aug-15	7	96.6	308.3			2242.8			
2015	6-Aug-15	8	76	258.4			2547.5			
2015	6-Aug-15	9	120.5	379.3			3506.5			
2015	6-Aug-15	10	155.7	429.2			3581.6			
2015	6-Aug-15	11	145.4	443.2			3456			
2015	6-Aug-15	12	146.8	431.8			3040.8			
2015	6-Aug-15	13	150.9	405.5			2643.4			
2015	6-Aug-15	14	195	374.2			2455.2			
2015	6-Aug-15	15	214.9	374.2			2230			
2015	6-Aug-15	16	185.5	323.4			2174.1			
2015	6-Aug-15	17	160.9	314.8	0.039		2143.8			
2015	6-Aug-15	18	165.1	313.5	0.067		2137.6			
2015	6-Aug-15	19	141.5	272.3	0.067		2130.1			
2015	6-Aug-15	20	145.5	349.7	0.068		2121.6			
2015	6-Aug-15	21	146.5	373	0.08		2134.3			
2015	6-Aug-15	22	163.5	338.7	0.088		2118.9			
2015	6-Aug-15	23	160.4	291.5	0.075		1623.4			
2015	7-Aug-15	0	175	316.5	0.066		520.7			
2015	7-Aug-15	1	179.4	305.7	0.061		234.612			
2015	7-Aug-15	2	186	297.2	0.051					
2015	7-Aug-15	3	174.2	299	0.064					
2015	7-Aug-15	4	186.1	315.9	0.066					
2015	7-Aug-15	5	198.9	329.5	0.065					
2015	7-Aug-15	6	191.9	357.3	0.054					
2015	7-Aug-15	7	199	401.5	0.067					
2015	7-Aug-15	8	193.9	310	0.067					
2015	7-Aug-15	9	220.9	383.9	0.065					
2015	7-Aug-15	10	201.9	374.9	0.053					
2015	7-Aug-15	11	207.9	360.1	0.058					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	7-Aug-15	12	229.1	362.3	0.066					
2015	7-Aug-15	13	255.3	307.4	0.066					
2015	7-Aug-15	14	364.9	382.7	0.065					
2015	7-Aug-15	15	695.6	605.4	0.053					
2015	7-Aug-15	16	951.3	867.8	0.038					
2015	7-Aug-15	17	844.3	680.3						
2015	7-Aug-15	18	871.7	545.9						
2015	7-Aug-15	19	821.2	520.2						
2015	7-Aug-15	20	933.8	714.1						
2015	7-Aug-15	21	505.9	473.1						
2015	7-Aug-15	22	446.5	471.5						
2015	7-Aug-15	23	381.6	389						
2015	8-Aug-15	0	281.4	283.1						
2015	8-Aug-15	1	218	232.3						
2015	8-Aug-15	2	213.1	222.7						
2015	8-Aug-15	3	213.3	200.3						
2015	8-Aug-15	4	204.2	191.7						
2015	8-Aug-15	5	370.8	293.2						
2015	8-Aug-15	6	490.4	513.1						
2015	8-Aug-15	7	471.8	597.7						
2015	8-Aug-15	8	478.8	569.1						
2015	8-Aug-15	9	608.5	769.4						
2015	8-Aug-15	10	592.3	674.6						
2015	8-Aug-15	11	639	628.8						
2015	8-Aug-15	12	633.8	570.5						
2015	8-Aug-15	13	659.1	601.9						
2015	8-Aug-15	14	626.8	548.2						
2015	8-Aug-15	15	661.6	575.9						
2015	8-Aug-15	16	655	647.7						
2015	8-Aug-15	17	770	788						
2015	8-Aug-15	18	810.7	724.3						
2015	8-Aug-15	19	817.2	815.2						
2015	8-Aug-15	20	538	591.2						
2015	8-Aug-15	21	279.3	409.4						
2015	8-Aug-15	22	227.3	376.8						
2015	8-Aug-15	23	226.4	376.5						
2015	9-Aug-15	0	243	395.1						
2015	9-Aug-15	1	195.5	348.3						
2015	9-Aug-15	2	205.1	255.1						
2015	9-Aug-15	3	194.3	203.3						
2015	9-Aug-15	4	198.9	219.7						
2015	9-Aug-15	5	203.3	233.4						
2015	9-Aug-15	6	206.1	279.3						
2015	9-Aug-15	7	244.9	360.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	9-Aug-15	8	225.4	320.3						
2015	9-Aug-15	9	178.6	276.3						
2015	9-Aug-15	10	227.7	286.7						
2015	9-Aug-15	11	336.7	413.8						
2015	9-Aug-15	12	369	428.7						
2015	9-Aug-15	13	408	581						
2015	9-Aug-15	14	429.4	794.1						
2015	9-Aug-15	15	498.1	946.5						
2015	9-Aug-15	16	723.5	1194.3						
2015	9-Aug-15	17	991	1652.9						
2015	9-Aug-15	18	1179.4	727						
2015	9-Aug-15	19	1468.6	596						
2015	9-Aug-15	20	1682.2	652.1						
2015	9-Aug-15	21	1691.4	757.6						
2015	9-Aug-15	22	1883.2	751.5						
2015	9-Aug-15	23	1437.1	520.6						
2015	10-Aug-15	0	945.5	322.2						
2015	10-Aug-15	1	559.4	463.8						
2015	10-Aug-15	2	456.9	316.2						
2015	10-Aug-15	3	327.6	271						
2015	10-Aug-15	4	238.9	263.7						
2015	10-Aug-15	5	403.5	406.6						
2015	10-Aug-15	6	512.7	584.5						
2015	10-Aug-15	7	637.1	662.3						
2015	10-Aug-15	8	570.9	636.9						
2015	10-Aug-15	9	657.1	690.3						
2015	10-Aug-15	10	666.2	639.3						
2015	10-Aug-15	11	878.9	965.9						
2015	10-Aug-15	12	790.7	888.8						
2015	10-Aug-15	13	837.7	963.2						
2015	10-Aug-15	14	774.2	1016						
2015	10-Aug-15	15	978.6	1159.6						
2015	10-Aug-15	16	1156	835.5						
2015	10-Aug-15	17	1010.9	620.6						
2015	10-Aug-15	18	1044.8	578.6						
2015	10-Aug-15	19	1000.8	462.9						
2015	10-Aug-15	20	1235.4	534.2						
2015	10-Aug-15	21	991.4	435.9						
2015	10-Aug-15	22	732.2	281.9						
2015	10-Aug-15	23	405.4	390.9						
2015	11-Aug-15	0	282.4	190.5						
2015	11-Aug-15	1	265.2	139.1						
2015	11-Aug-15	2	239.7	114.7						
2015	11-Aug-15	3	241.3	91.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	11-Aug-15	4	240.1	176.8						
2015	11-Aug-15	5	457.3	477.7						
2015	11-Aug-15	6	713.3	649.5						
2015	11-Aug-15	7	676.3	638.9						
2015	11-Aug-15	8	778.4	712.9						
2015	11-Aug-15	9	1327.5	1025.1						
2015	11-Aug-15	10	1897	729.7						
2015	11-Aug-15	11	982.5	647						
2015	11-Aug-15	12	853.2	696.8						
2015	11-Aug-15	13	851.1	725.4						
2015	11-Aug-15	14	871	691.9						
2015	11-Aug-15	15	879.6	738.1						
2015	11-Aug-15	16	858.9	711.6						
2015	11-Aug-15	17	893.5	752.7						
2015	11-Aug-15	18	893.1	743.7						
2015	11-Aug-15	19	931.5	744.2						
2015	11-Aug-15	20	790.8	614.3						
2015	11-Aug-15	21	686.3	400.8						
2015	11-Aug-15	22	492	222						
2015	11-Aug-15	23	342.8	178.5						
2015	12-Aug-15	0	213.6	256.7						
2015	12-Aug-15	1	176.5	301						
2015	12-Aug-15	2	298.9	286.6						
2015	12-Aug-15	3	287.9	254.7						
2015	12-Aug-15	4	397.9	350.2						
2015	12-Aug-15	5	783.3	761.5						
2015	12-Aug-15	6	686.6	672.4						
2015	12-Aug-15	7	722.7	797.4						
2015	12-Aug-15	8	674.1	676.6						
2015	12-Aug-15	9	606.5	679.3						
2015	12-Aug-15	10	515.1	598.7						
2015	12-Aug-15	11	456.9	521.1						
2015	12-Aug-15	12	387.2	399.3						
2015	12-Aug-15	13	486.5	479.1						
2015	12-Aug-15	14	740.8	722.2						
2015	12-Aug-15	15	824.5	727.6						
2015	12-Aug-15	16	824.9	694.1						
2015	12-Aug-15	17	735.1	711.6						
2015	12-Aug-15	18	690.4	677.6						
2015	12-Aug-15	19	643.4	659.6						
2015	12-Aug-15	20	521.8	521.5						
2015	12-Aug-15	21	448.3	380.4						
2015	12-Aug-15	22	340.4	294.6						
2015	12-Aug-15	23	537.2	290.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	13-Aug-15	0	373.6	292						
2015	13-Aug-15	1	332.1	93.4						
2015	13-Aug-15	2	289.7	64.2						
2015	13-Aug-15	3	277.3	65.2						
2015	13-Aug-15	4	261.8	105.8						
2015	13-Aug-15	5	274.5	322.6						
2015	13-Aug-15	6	274.7	432.3						
2015	13-Aug-15	7	263	367.9						
2015	13-Aug-15	8	266.3	290.1						
2015	13-Aug-15	9	289.3	329.1						
2015	13-Aug-15	10	382.7	492.7						
2015	13-Aug-15	11	353.2	536						
2015	13-Aug-15	12	325.6	557.7						
2015	13-Aug-15	13	533.8	691.2						
2015	13-Aug-15	14	839.6	359.8						
2015	13-Aug-15	15	1010.3	457.8						
2015	13-Aug-15	16	391.5	423.9						
2015	13-Aug-15	17	401	393.5						
2015	13-Aug-15	18	416.4	373.1						
2015	13-Aug-15	19	343.1	286						
2015	13-Aug-15	20	282.3	271.1						
2015	13-Aug-15	21	212.4	194.3						
2015	13-Aug-15	22	310.2	350.2						
2015	13-Aug-15	23	296	304.7						
2015	14-Aug-15	0	261.6	197.1	0.035					
2015	14-Aug-15	1	239.3	143.6	0.067					
2015	14-Aug-15	2	258.4	121.5	0.067					
2015	14-Aug-15	3	258.2	115.6	0.066					
2015	14-Aug-15	4	250	187.3	0.066					
2015	14-Aug-15	5	252.2	467.7	0.076					
2015	14-Aug-15	6	266.2	377.1	0.078					
2015	14-Aug-15	7	339.1	355.9	0.078					
2015	14-Aug-15	8	230.2	256.2	0.114					
2015	14-Aug-15	9	202.6	247.5	0.233					
2015	14-Aug-15	10	212.7	273.9	0.239					
2015	14-Aug-15	11	216.2	239.9	0.251					
2015	14-Aug-15	12	259	275.4	0.247					
2015	14-Aug-15	13	376.5	451	0.378					
2015	14-Aug-15	14	608.9	490.4	0.326					
2015	14-Aug-15	15	1106.7	708.4	0.508					
2015	14-Aug-15	16	1157.7	924.8	0.416					
2015	14-Aug-15	17	1075.4	982.4	0.239					
2015	14-Aug-15	18	686.3	656.9	0.083					
2015	14-Aug-15	19	537.1	506.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	14-Aug-15	20	420.1	372.2						
2015	14-Aug-15	21	330.7	285						
2015	14-Aug-15	22	244.5	189.5						
2015	14-Aug-15	23	252.9	229						
2015	15-Aug-15	0	248.1	225.3						
2015	15-Aug-15	1	250.4	232.5						
2015	15-Aug-15	2	242.7	217.2						
2015	15-Aug-15	3	249.5	222						
2015	15-Aug-15	4	248.4	213.3		0				
2015	15-Aug-15	5	240.7	214.8		0				
2015	15-Aug-15	6	248.7	218.8		0				
2015	15-Aug-15	7	236.5	232.4		0				
2015	15-Aug-15	8	232.6	225.3		0				
2015	15-Aug-15	9	239.4	238		0				
2015	15-Aug-15	10	240.5	235.9		0				
2015	15-Aug-15	11	228.4	247.6		0				
2015	15-Aug-15	12	228.1	275		0	0			
2015	15-Aug-15	13	445.4	372.8		0	0			
2015	15-Aug-15	14	904.7	503.8		0	175.1			
2015	15-Aug-15	15	1238.2	840.3		0	396.2			
2015	15-Aug-15	16	1461.5	889		0	499.3			
2015	15-Aug-15	17	1051.2	765.5		0.1	538.1			
2015	15-Aug-15	18	756.7	494.4		0	650			
2015	15-Aug-15	19	469.1	404.3		0	1468.6			
2015	15-Aug-15	20	341.6	341.9		0	980.1			
2015	15-Aug-15	21	258.6	272.4		0	927.6			
2015	15-Aug-15	22	275.6	229.4		0	1695.1			
2015	15-Aug-15	23	278.8	225.3			1969.5			
2015	16-Aug-15	0	275.8	126.3			2011			
2015	16-Aug-15	1	294.2	85.4			2022.7			
2015	16-Aug-15	2	281.9	86.4			2007.7			
2015	16-Aug-15	3	286.3	82.3			2043.5			
2015	16-Aug-15	4	277.9	153.5			2069.7			
2015	16-Aug-15	5	298.9	488.3			2227			
2015	16-Aug-15	6	330.3	390.3			2700.8			
2015	16-Aug-15	7	315.8	268.7			3136.2			
2015	16-Aug-15	8	317.4	257.1			3248.1			
2015	16-Aug-15	9	320.2	241.5			3465.5			
2015	16-Aug-15	10	318.1	264.3			3649.1			
2015	16-Aug-15	11	324.7	276.2			3715.1	0	0	
2015	16-Aug-15	12	291.9	244.6			3795.5	0	0.3	
2015	16-Aug-15	13	296.8	260.8			3834.4	1	0	
2015	16-Aug-15	14	365.5	404.3			3826.9	6.6	0	
2015	16-Aug-15	15	430.1	597.6			3814.8	19.8	0	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	16-Aug-15	16	624	897.8			3826.3		17.9	0
2015	16-Aug-15	17	738.1	909.6			3843.5		19.1	0
2015	16-Aug-15	18	476.6	714.6			3810		26.1	0
2015	16-Aug-15	19	393.6	471.1			3802.5		26.1	0
2015	16-Aug-15	20	356.4	451.1			3805.7		31.5	0
2015	16-Aug-15	21	281.6	336			3775.7		32.1	0
2015	16-Aug-15	22	260.5	251.4			3737.4		34.3	0
2015	16-Aug-15	23	263.1	264.8			3622.6		53.6	0
2015	17-Aug-15	0	254.1	147.1			3275.2		45.6	0
2015	17-Aug-15	1	271	115.5	0.008		2880.9		36.1	12.7
2015	17-Aug-15	2	267.6	88.6	0.067		2430.7		37.2	106.5
2015	17-Aug-15	3	266.7	94.2	0.071		2287.1		49.4	107.4
2015	17-Aug-15	4	264.7	244.5	0.066		2266		102.8	154.2
2015	17-Aug-15	5	271.5	525.3	0.065		2261.2		127.1	209.3
2015	17-Aug-15	6	297.4	489.1	0.063		2274.5		211.4	534.9
2015	17-Aug-15	7	305	324.3	0.062		2259.4		240.1	517
2015	17-Aug-15	8	286.4	272.8	0.064		2280.2		449.4	1083.4
2015	17-Aug-15	9	285.2	281.4	0.089		2318.7		564.4	1359.2
2015	17-Aug-15	10	269.7	291.6	0.126		2364		580.6	1919.2
2015	17-Aug-15	11	351.2	400.4	0.241		2753.4		613.2	1495.1
2015	17-Aug-15	12	336.8	358.8	0.247		2846.1		581.1	1190.4
2015	17-Aug-15	13	348.1	352.3	0.258		3091.8		645	1118
2015	17-Aug-15	14	387.1	436.6	0.257		3282.6		580.6	1318.2
2015	17-Aug-15	15	371.6	450.5	0.255		3289.4		594	789
2015	17-Aug-15	16	337.1	430.3	0.259		3170		620.7	692.2
2015	17-Aug-15	17	331.3	393.1	0.246		3083.1		608.8	1910.5
2015	17-Aug-15	18	313.7	327.5	0.241		2705.6		642.9	1863.8
2015	17-Aug-15	19	311.7	294.6	0.243		2489.6		588.3	1569.9
2015	17-Aug-15	20	280.2	277.6	0.12		2629.1		589.6	824.1
2015	17-Aug-15	21	271.3	257.3			2331.6		602.3	639.7
2015	17-Aug-15	22	259	253.3			2284.2		607.5	693
2015	17-Aug-15	23	275.9	245.4			2290.2		636.2	578.6
2015	18-Aug-15	0	263	249.2			2298.2		610.2	838.1
2015	18-Aug-15	1	257.5	256.6			2267.4		604.6	690.9
2015	18-Aug-15	2	247.6	239.1			2261.7		594.2	625.2
2015	18-Aug-15	3	253.9	238.2			2266.4		583	540.3
2015	18-Aug-15	4	255.4	229.9			2278.8		577.6	487
2015	18-Aug-15	5	259.1	243.1			2268.4		575.8	471
2015	18-Aug-15	6	260.9	261.9			2267.1		576.5	461.8
2015	18-Aug-15	7	268.2	262.1			2243.5		576.9	520.6
2015	18-Aug-15	8	249	250.9			2266.4		578.6	1585.6
2015	18-Aug-15	9	246.6	265.9			2419.9		573.4	2423
2015	18-Aug-15	10	263.4	311.9			2767.6		575.7	2631.1
2015	18-Aug-15	11	293.9	368.7			3059		577.7	2131.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	18-Aug-15	12	367.1	528.4			3343.1		577.6	2145.3
2015	18-Aug-15	13	364.2	549.2			3332.8		578.2	2342.8
2015	18-Aug-15	14	570.7	702.6			3551.2		584.7	2947.4
2015	18-Aug-15	15	928.1	989.2			3695.6		587.1	2822.4
2015	18-Aug-15	16	776.6	837			3652		588.9	2050.1
2015	18-Aug-15	17	542	886.2			3454.2		582.5	1296.9
2015	18-Aug-15	18	461.9	873.3			3092.7		577.2	2051.8
2015	18-Aug-15	19	355	992			2991		575.2	2255.9
2015	18-Aug-15	20	347.4	881.6			3027.2		570.4	2471.8
2015	18-Aug-15	21	254.2	613			2659.2		565.1	2371.1
2015	18-Aug-15	22	238.1	422			2408		569.8	2330.1
2015	18-Aug-15	23	242	384.9			2330.7		323.472	1525.1
2015	19-Aug-15	0	232.7	283.4			2332.6			121.872
2015	19-Aug-15	1	233.6	247.9			2327.9			
2015	19-Aug-15	2	236	231.6			2311.3			
2015	19-Aug-15	3	227.9	232.1			2318.3			
2015	19-Aug-15	4	221.5	230.3			2318.6			
2015	19-Aug-15	5	233.7	246.4			2331.8			
2015	19-Aug-15	6	229.1	262.2			2342			
2015	19-Aug-15	7	235.1	261.9			2414.6			
2015	19-Aug-15	8	266.3	296.9			2642.5			
2015	19-Aug-15	9	386	408.1			3101.9			
2015	19-Aug-15	10	471.9	556.2			3374.4			
2015	19-Aug-15	11	636.4	652.5			3570			
2015	19-Aug-15	12	912.6	719.6			3768.8			
2015	19-Aug-15	13	644.5	640.9			3871.7			
2015	19-Aug-15	14	828.3	807.3			3867.7			
2015	19-Aug-15	15	821.9	867.1			3871.8			
2015	19-Aug-15	16	709.4	729.9			3820.8			
2015	19-Aug-15	17	676.1	744.8			3705.7			
2015	19-Aug-15	18	713.8	823.3			3689.6			
2015	19-Aug-15	19	833.6	879	0.013		3745.5			
2015	19-Aug-15	20	682	665.4	0.073		3806.4			
2015	19-Aug-15	21	456	195.2	0.073		3485.6			
2015	19-Aug-15	22	261.5	128.5	0.082		2917.7			
2015	19-Aug-15	23	171.5	120.1	0.082		2321.3			
2015	20-Aug-15	0	126.2	114.6	0.073		107.67			
2015	20-Aug-15	1	114.2	397.1	0.065					
2015	20-Aug-15	2	114.4	519.5	0.065					
2015	20-Aug-15	3	112.6	342.7	0.065					
2015	20-Aug-15	4	114.8	327.1	0.065					
2015	20-Aug-15	5	120.4	306.4	0.065					
2015	20-Aug-15	6	125.8	340	0.066					
2015	20-Aug-15	7	121.9	350.4	0.051					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	20-Aug-15	8	123.4	355.8	0.051					
2015	20-Aug-15	9	108.8	343	0.051					
2015	20-Aug-15	10	108.9	328.8	0.051					
2015	20-Aug-15	11	231.1	548.3	0.052					
2015	20-Aug-15	12	309.5	658.2	0.065					
2015	20-Aug-15	13	381	306.4	0.056					
2015	20-Aug-15	14	319.7	268.2	0.008					
2015	20-Aug-15	15	250.8	258.5						
2015	20-Aug-15	16	369	315.8						
2015	20-Aug-15	17	411.6	272.8						
2015	20-Aug-15	18	514.6	392.6						
2015	20-Aug-15	19	350.9	285.1						
2015	20-Aug-15	20	242	275.7						
2015	20-Aug-15	21	213.1	401.5						
2015	20-Aug-15	22	297.6	400.9						
2015	20-Aug-15	23	410.6	325.496						
2015	21-Aug-15	0	343.9							
2015	21-Aug-15	1	341.7							
2015	21-Aug-15	2	323.4							
2015	21-Aug-15	3	315.7							
2015	21-Aug-15	4	319.5							
2015	21-Aug-15	5	321							
2015	21-Aug-15	6	327.3							
2015	21-Aug-15	7	321.2							
2015	21-Aug-15	8	329							
2015	21-Aug-15	9	330.1							
2015	21-Aug-15	10	342.5							
2015	21-Aug-15	11	341.1							
2015	21-Aug-15	12	366.7							
2015	21-Aug-15	13	478.8							
2015	21-Aug-15	14	560.7							
2015	21-Aug-15	15	819.1							
2015	21-Aug-15	16	1033.1							
2015	21-Aug-15	17	1067.8							
2015	21-Aug-15	18	611.8							
2015	21-Aug-15	19	444.8							
2015	21-Aug-15	20	333.7							
2015	21-Aug-15	21	568.4							
2015	21-Aug-15	22	552.6							
2015	21-Aug-15	23	547.1							
2015	22-Aug-15	0	552.4							
2015	22-Aug-15	1	554.2							
2015	22-Aug-15	2	477.9							
2015	22-Aug-15	3	344.4							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	22-Aug-15	4	256							
2015	22-Aug-15	5	260.1							
2015	22-Aug-15	6	273.3							
2015	22-Aug-15	7	264.4							
2015	22-Aug-15	8	253.2							
2015	22-Aug-15	9	240.8							
2015	22-Aug-15	10	258.3							
2015	22-Aug-15	11	331.3							
2015	22-Aug-15	12	324.6							
2015	22-Aug-15	13	410.7							
2015	22-Aug-15	14	454							
2015	22-Aug-15	15	446							
2015	22-Aug-15	16	473.4							
2015	22-Aug-15	17	474.7							
2015	22-Aug-15	18	398.6							
2015	22-Aug-15	19	378.9							
2015	22-Aug-15	20	281.9							
2015	22-Aug-15	21	254.7							
2015	22-Aug-15	22	252.6							
2015	22-Aug-15	23	277.5							
2015	23-Aug-15	0	607.6							
2015	23-Aug-15	1	858.8							
2015	23-Aug-15	2	375.1							
2015	23-Aug-15	3	314.5							
2015	23-Aug-15	4	309.8							
2015	23-Aug-15	5	290.1							
2015	23-Aug-15	6	300.2							1.196
2015	23-Aug-15	7	289.8							0
2015	23-Aug-15	8	304.2							0
2015	23-Aug-15	9	312.7							0
2015	23-Aug-15	10	391.4							0
2015	23-Aug-15	11	430.1							0
2015	23-Aug-15	12	504.9							0
2015	23-Aug-15	13	598.2							0
2015	23-Aug-15	14	740.9							0
2015	23-Aug-15	15	1067.8							0
2015	23-Aug-15	16	1015							40.3
2015	23-Aug-15	17	1146.6							303.7
2015	23-Aug-15	18	1259.6							447.2
2015	23-Aug-15	19	1271.2							294.1
2015	23-Aug-15	20	733							394.8
2015	23-Aug-15	21	423.5							421.7
2015	23-Aug-15	22	449.8							486.4
2015	23-Aug-15	23	566.8							431.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	24-Aug-15	0	423.5							415.8
2015	24-Aug-15	1	394.7							421.2
2015	24-Aug-15	2	397.7							421.4
2015	24-Aug-15	3	391.1							420.2
2015	24-Aug-15	4	385.2							419.7
2015	24-Aug-15	5	383.3							415
2015	24-Aug-15	6	387.9							418.7
2015	24-Aug-15	7	387.7							417
2015	24-Aug-15	8	374.9							417.6
2015	24-Aug-15	9	399.9							413.9
2015	24-Aug-15	10	539.6							415
2015	24-Aug-15	11	498.3							417.1
2015	24-Aug-15	12	486.3							479.5
2015	24-Aug-15	13	826.2							548.5
2015	24-Aug-15	14	685.5							616.7
2015	24-Aug-15	15	1152.6							609.2
2015	24-Aug-15	16	1451.7							607.9
2015	24-Aug-15	17	1440.3						0	618.1
2015	24-Aug-15	18	1209.2						0	611
2015	24-Aug-15	19	889.6						6.5	579.6
2015	24-Aug-15	20	688.3						24.9	576.3
2015	24-Aug-15	21	494.3						46.6	509.5
2015	24-Aug-15	22	339.5						40	430
2015	24-Aug-15	23	327.1						38.9	437.7
2015	25-Aug-15	0	309.4						41.2	432.9
2015	25-Aug-15	1	641						41.3	430
2015	25-Aug-15	2	666.2						60.5	434.1
2015	25-Aug-15	3	702.7						60.1	433.1
2015	25-Aug-15	4	905.7						56.1	536.4
2015	25-Aug-15	5	800.3						68.7	587.4
2015	25-Aug-15	6	1446.3						90.7	4024.2
2015	25-Aug-15	7	1412.1						109.1	4525
2015	25-Aug-15	8	1486.5						98.6	4647.3
2015	25-Aug-15	9	1426.5						93.2	4966.8
2015	25-Aug-15	10	1436.1						95.7	5120.2
2015	25-Aug-15	11	1477.8						143.1	5230.2
2015	25-Aug-15	12	1455.5						288.7	5073.7
2015	25-Aug-15	13	1416.9						431.5	4666.2
2015	25-Aug-15	14	1511						540.4	4155.6
2015	25-Aug-15	15	1740.7						667.9	4159.2
2015	25-Aug-15	16	1677.5						815.7	4194.9
2015	25-Aug-15	17	1327.3						870.5	4442.9
2015	25-Aug-15	18	965.5						850.9	4706.6
2015	25-Aug-15	19	1062						1261.8	3780.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	25-Aug-15	20	883.4						1059.2	3230
2015	25-Aug-15	21	633.8						844.4	1507.3
2015	25-Aug-15	22	1026.5						738.6	1589
2015	25-Aug-15	23	868						747.3	831.6
2015	26-Aug-15	0	662.7						669.9	1179.8
2015	26-Aug-15	1	430.9						676.3	449.1
2015	26-Aug-15	2	475.8						677.9	380.8
2015	26-Aug-15	3	491.8						665.7	498
2015	26-Aug-15	4	493						678.6	1545.9
2015	26-Aug-15	5	500.2						705.6	2776.6
2015	26-Aug-15	6	642.2						672.9	3032
2015	26-Aug-15	7	553.7						669.1	2817.1
2015	26-Aug-15	8	363.1						651.2	3292.4
2015	26-Aug-15	9	378.5						830.9	3531.1
2015	26-Aug-15	10	405.9						918.9	3623.3
2015	26-Aug-15	11	384.8						835.4	3439.9
2015	26-Aug-15	12	368.2						735.5	3931.2
2015	26-Aug-15	13	358.9						671.2	4005.8
2015	26-Aug-15	14	412.9						688.1	3945.2
2015	26-Aug-15	15	482.6						657.6	4268.2
2015	26-Aug-15	16	477						639.6	4542.7
2015	26-Aug-15	17	485.9						641.2	4481.7
2015	26-Aug-15	18	651.6						637.2	4065.2
2015	26-Aug-15	19	667						654.3	2313.2
2015	26-Aug-15	20	698.8						636.1	2052
2015	26-Aug-15	21	616.3						617.3	2031.1
2015	26-Aug-15	22	542.4						606.6	2043.8
2015	26-Aug-15	23	461.4						598.7	2241.8
2015	27-Aug-15	0	418.3						592.5	1499.6
2015	27-Aug-15	1	423.4						600.9	196.912
2015	27-Aug-15	2	419.1						616.7	55.1
2015	27-Aug-15	3	418.4						644.7	328.1
2015	27-Aug-15	4	424						619.3	633.8
2015	27-Aug-15	5	430.2						605.7	372.8
2015	27-Aug-15	6	457.7						594.8	1166.7
2015	27-Aug-15	7	584.3						743.9	1793.6
2015	27-Aug-15	8	510.1						769.4	1039.57
2015	27-Aug-15	9	641.5						810.5	
2015	27-Aug-15	10	839.8						961	
2015	27-Aug-15	11	797.8						947.6	
2015	27-Aug-15	12	785						998	
2015	27-Aug-15	13	712.6						971.3	
2015	27-Aug-15	14	686						808.5	
2015	27-Aug-15	15	710.1						787.4	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	27-Aug-15	16	739.9						811	
2015	27-Aug-15	17	735						645.5	
2015	27-Aug-15	18	673.5						527.3	
2015	27-Aug-15	19	839.5						527.7	
2015	27-Aug-15	20	695.2						520.7	
2015	27-Aug-15	21	629.9						481.5	
2015	27-Aug-15	22	584.7						268.2	
2015	27-Aug-15	23	617.6						102.8	
2015	28-Aug-15	0	605.9							
2015	28-Aug-15	1	484.4							
2015	28-Aug-15	2	384.6							
2015	28-Aug-15	3	370.4							
2015	28-Aug-15	4	388.5							
2015	28-Aug-15	5	569.2							
2015	28-Aug-15	6	643.5							
2015	28-Aug-15	7	672.3							
2015	28-Aug-15	8	660.5							
2015	28-Aug-15	9	681.8							
2015	28-Aug-15	10	728.4							
2015	28-Aug-15	11	883.2							
2015	28-Aug-15	12	745							
2015	28-Aug-15	13	844.5							
2015	28-Aug-15	14	1114.8							
2015	28-Aug-15	15	1112							
2015	28-Aug-15	16	825.4							
2015	28-Aug-15	17	781.4							
2015	28-Aug-15	18	979.1							
2015	28-Aug-15	19	1403.8							
2015	28-Aug-15	20	1351.1							
2015	28-Aug-15	21	1128							
2015	28-Aug-15	22	810.2							
2015	28-Aug-15	23	554.3							
2015	29-Aug-15	0	361.9							
2015	29-Aug-15	1	619							
2015	29-Aug-15	2	519							
2015	29-Aug-15	3	525							
2015	29-Aug-15	4	513.2							
2015	29-Aug-15	5	604.7							
2015	29-Aug-15	6	613.5							
2015	29-Aug-15	7	525.7							
2015	29-Aug-15	8	555.3							
2015	29-Aug-15	9	548.7							
2015	29-Aug-15	10	820.3							
2015	29-Aug-15	11	1538.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	29-Aug-15	12	1823.4							
2015	29-Aug-15	13	1859.7		0.027					
2015	29-Aug-15	14	1698.3		0.064					
2015	29-Aug-15	15	1547.4		0.067					0
2015	29-Aug-15	16	1530.6		0.067					0
2015	29-Aug-15	17	1480		0.067					0.2
2015	29-Aug-15	18	1434.8		0.082					0
2015	29-Aug-15	19	1373.4		0.087					0
2015	29-Aug-15	20	1394		0.064					0
2015	29-Aug-15	21	1373.4		0.057					0
2015	29-Aug-15	22	1415.8		0.067					0.4
2015	29-Aug-15	23	1147.7		0.067					0.4
2015	30-Aug-15	0	676.6	0	0.067		102.564			0
2015	30-Aug-15	1	431.5	0	0.067		529.8			25.4
2015	30-Aug-15	2	329.6	4.5	0.067		515.1			86.9
2015	30-Aug-15	3	418.7	1.1	0.067		381.8			255.8
2015	30-Aug-15	4	525	0	0.067		381.9			364.1
2015	30-Aug-15	5	538	0	0.067		384.4			139.7
2015	30-Aug-15	6	513.6	5.2	0.067		381.7			2.1
2015	30-Aug-15	7	589.5	3.1	0.067		372			2.4
2015	30-Aug-15	8	1219.4	1	0.066		372.6			0.9
2015	30-Aug-15	9	718.8	0	0.066		372.5			37.1
2015	30-Aug-15	10	551.6	6.1	0.066		339.1			849.3
2015	30-Aug-15	11	538.2	1	0.066		373.4			1943.2
2015	30-Aug-15	12	536.3	0	0.066		335			4764.2
2015	30-Aug-15	13	546	0	0.066		347		0	5409.7
2015	30-Aug-15	14	551	0	0.066		435.3		0.2	5374.2
2015	30-Aug-15	15	575.4	7	0.066		535.5		24	4320.8
2015	30-Aug-15	16	573.8	2	0.066		672.4		54.8	3205.3
2015	30-Aug-15	17	443.8	0	0.066		1602.7		61.7	2929.2
2015	30-Aug-15	18	415.2	0	0.061		1945.2		56.9	2972.1
2015	30-Aug-15	19	467.3	0	0.049		2132.6		54.9	2104.2
2015	30-Aug-15	20	498.3	0	0.027		2397.8		53.3	1082.1
2015	30-Aug-15	21	504.2	2			2350.1		51.7	831.6
2015	30-Aug-15	22	507.3	103.7			2352.3		46	752.3
2015	30-Aug-15	23	488.7	461.6			2513.5		56.9	635.9
2015	31-Aug-15	0	429.5	704.6			2962.8		67.8	493.1
2015	31-Aug-15	1	658.3	816			3437.5		67.5	363.5
2015	31-Aug-15	2	551.7	2.7	0.002		3641		67.8	287.8
2015	31-Aug-15	3	562.3	2.9	0.053		3852.5		95.7	288
2015	31-Aug-15	4	551.6	1.9	0.056		3850.5		118.4	283.6
2015	31-Aug-15	5	469.8	66.5	0.066		3825.3		140.4	281.8
2015	31-Aug-15	6	468.5	41.4	0.066		3787.3		169.5	281.4
2015	31-Aug-15	7	467.1	42.4	0.069		3831.9		235.4	277.8



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	31-Aug-15	8	465.8	123.1	0.085		3816.9		307.5	294.8
2015	31-Aug-15	9	784.4	224.5	0.193		3917.1		663.8	450.4
2015	31-Aug-15	10	1064.6	260.5	0.298		3770.3			374.5
2015	31-Aug-15	11	772.1	683.5	0.243		3709.8			292.1
2015	31-Aug-15	12	789.5	437.8	0.242		3494		29.4	287.4
2015	31-Aug-15	13	1076.5	609.9	0.274		3568.5		384.3	352.4
2015	31-Aug-15	14	1355.3	1015.8	0.298		3874.2		20	462.2
2015	31-Aug-15	15	1445.1	1281.1	0.542		3928.6		34	672.5
2015	31-Aug-15	16	1433.8	1116.9	0.381		3921.4		22.2	580.2
2015	31-Aug-15	17	1424.4	325.9	0.244		3952.2		70.2	509.7
2015	31-Aug-15	18	1099.5	320.2	0.234		3817.1		147.9	374.1
2015	31-Aug-15	19	986.6	365.9	0.177		3841.1		80.016	347.8
2015	31-Aug-15	20	848.9	339.1	0.039		3694.2			334.5
2015	31-Aug-15	21	653.4	261.2	0.039		3231.4			333.8
2015	31-Aug-15	22	608.1	151.1	0.038		2730.1			287
2015	31-Aug-15	23	578.8	230.7	0.039		2457.5			290.1
2015	1-Sep-15	0	570.9	229.8	0.039		2445.5			290
2015	1-Sep-15	1	581.9	234.5	0.039		2432.2			288
2015	1-Sep-15	2	567.7	234.3	0.038		2431.7			284.6
2015	1-Sep-15	3	409.6	238.7	0.038		2419			281.1
2015	1-Sep-15	4	275.5	238.4	0.038		2424.8			281.6
2015	1-Sep-15	5	213	225.5	0.047		2415.3			288.3
2015	1-Sep-15	6	224.7	223.4	0.056		2417.8			290.5
2015	1-Sep-15	7	227.3	197	0.064		2420.4			286.9
2015	1-Sep-15	8	444.2	187	0.067		2429.4			288.5
2015	1-Sep-15	9	497.2	195.4	0.201		2606.8			297.3
2015	1-Sep-15	10	678.6	246.2	0.245		3010.1			318.6
2015	1-Sep-15	11	824.7	314.3	0.289		3252.5			400.7
2015	1-Sep-15	12	1218.2	522.1	0.315		3496.7			394.3
2015	1-Sep-15	13	873.3	940.2	0.253		3508.1			396.7
2015	1-Sep-15	14	971.8	1051.9	0.249		3481.9			424
2015	1-Sep-15	15	854.6	659.8	0.315		3525			612.6
2015	1-Sep-15	16	885	586.7	0.3		3592.7			653.1
2015	1-Sep-15	17	1304	903.5	0.454		3766.4			735.5
2015	1-Sep-15	18	1472.6	927.2	0.282	0	3691.9			612.4
2015	1-Sep-15	19	1336.8	859.8	0.01	0	3520.2			648.6
2015	1-Sep-15	20	1454.9	817.9		0	3557.5			539.4
2015	1-Sep-15	21	1170	554.8		0	3250.9			391.2
2015	1-Sep-15	22	910	311.2		0	2751.7			325.9
2015	1-Sep-15	23	659.3	181.1		0	2523.1			301.9
2015	2-Sep-15	0	507.6	112.5		0	2503.4			291.2
2015	2-Sep-15	1	319.9	93.9		0	2504.3			283.6
2015	2-Sep-15	2	409.8	82.9		0	2475.2			272.6
2015	2-Sep-15	3	488.2	85		0	2484.4			271.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	2-Sep-15	4	451.3	78.7		1.9	2484.6			270.4
2015	2-Sep-15	5	472	81.5		1.7	2695.8			271.9
2015	2-Sep-15	6	450.9	89		2	3120.7			269.1
2015	2-Sep-15	7	446.6	80		1.9	3081.1			266.6
2015	2-Sep-15	8	515.5	240.6		20.3	3203.3			272.1
2015	2-Sep-15	9	464.4	331.9		206.3	3408			273.1
2015	2-Sep-15	10	431.6	220.7		448.2	3695.7			278.3
2015	2-Sep-15	11	399.5	240.2		420.7	3821.8			283.7
2015	2-Sep-15	12	562.9	411.9		388.8	3986.7		13.524	276.1
2015	2-Sep-15	13	657.1	688.4		389.3	4038.7		23.8	282.5
2015	2-Sep-15	14	1073.8	1088.7		390	4029		50.7	276.9
2015	2-Sep-15	15	1021.4	1045		399.4	3992.9		48.2	285.4
2015	2-Sep-15	16	894.3	944.8		407.9	3977.4		48.1	278
2015	2-Sep-15	17	480	588.5		346.4	3975.2		58.1	280.5
2015	2-Sep-15	18	426.2	413		378.2	3926.4		57.1	284.3
2015	2-Sep-15	19	275.7	339.5		401.7	3705.7		56.9	275.6
2015	2-Sep-15	20	243.1	247.9		392.1	3626.8		55	275.5
2015	2-Sep-15	21	244.3	176.2		393.2	3360.7		64.2	275.7
2015	2-Sep-15	22	249.9	160		386.8	2840.2		63.4	277.4
2015	2-Sep-15	23	273.5	183.4		391.2	2494.2		57.1	278.3
2015	3-Sep-15	0	299	194.5		394	2447		62.6	278.1
2015	3-Sep-15	1	309.1	228.9		399.8	2447.2		75.3	276.1
2015	3-Sep-15	2	393.2	278.4		388.5	2445.5		166.3	275.8
2015	3-Sep-15	3	411.4	314		3.905	2436.3		260.2	273.6
2015	3-Sep-15	4	534.7	340.6			2442.7		286.1	261.9
2015	3-Sep-15	5	707.9	432.3			2472.2		293.1	259
2015	3-Sep-15	6	929.5	678.5			2582.8		283.6	261.8
2015	3-Sep-15	7	1595.9	1017.1			2919.5		313.9	508.8
2015	3-Sep-15	8	1245.2	817.6			3449.5		529.2	485.8
2015	3-Sep-15	9	1258.5	848.4			3349.5		527.7	379.9
2015	3-Sep-15	10	1350.1	848.5			3588		637.1	274.5
2015	3-Sep-15	11	1254.4	744.4			3641.4		670.1	277.9
2015	3-Sep-15	12	1139.8	697.6			3827.9		663.9	359
2015	3-Sep-15	13	1226.1	777.1			3806.8		732.6	282.7
2015	3-Sep-15	14	1160.2	860.5			3846.8		838.1	289.3
2015	3-Sep-15	15	1421.5	783.9			3967.9		744.2	419.8
2015	3-Sep-15	16	1469.5	825.4			3949.2		761.5	494.5
2015	3-Sep-15	17	1448.3	888.1			3937.7		676	582.7
2015	3-Sep-15	18	1284.1	683.7			3845.5		618	606.2
2015	3-Sep-15	19	1448.4	823.6			3862.4		618	543.3
2015	3-Sep-15	20	1184.8	760.6			3826.1		620.3	491.8
2015	3-Sep-15	21	930.6	427.4			3492.6		605.2	420.7
2015	3-Sep-15	22	528.9	279.6			3096.5		554.4	281
2015	3-Sep-15	23	362.5	191.3			2766		463.7	284.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	4-Sep-15	0	454.6	118.4			2467.9		443.9	281.1
2015	4-Sep-15	1	420.5	89.9			2421.5		298	279.9
2015	4-Sep-15	2	365.3	64.5			2420.6		57.1	282.5
2015	4-Sep-15	3	315.5	63.3			2415.8		17.836	282.5
2015	4-Sep-15	4	390.1	82.4			2424			281.6
2015	4-Sep-15	5	709.3	202.9			2629.5			429
2015	4-Sep-15	6	1560.5	464.7			3319.6			698.7
2015	4-Sep-15	7	781.7	464			3464.3			686.4
2015	4-Sep-15	8	515.3	330.9			3107.1			672.2
2015	4-Sep-15	9	497.6	346			3233.2			498.5
2015	4-Sep-15	10	556.6	346			3363.3			565.6
2015	4-Sep-15	11	596.7	419			3358.1			403
2015	4-Sep-15	12	685.8	558.7			3619			396.9
2015	4-Sep-15	13	978.6	759.8			3710.8			467.4
2015	4-Sep-15	14	670.5	489			3655.5			333.4
2015	4-Sep-15	15	549.8	382.2			3460.3			282.8
2015	4-Sep-15	16	625.3	426.2			3560.2			278.4
2015	4-Sep-15	17	598.5	433.5			3549.6			502.9
2015	4-Sep-15	18	595.7	467.2			3572.8			995
2015	4-Sep-15	19	425.1	377.9			3442.7			1520.2
2015	4-Sep-15	20	440	358.5			3466.6			1513
2015	4-Sep-15	21	377.6	324.2			3269.1			821.6
2015	4-Sep-15	22	363.8	304.7			3226.3			583.6
2015	4-Sep-15	23	347.3	259.4			2791			335.6
2015	5-Sep-15	0	352.4	237			2460			432.1
2015	5-Sep-15	1	344.5	241.1			2397.4			440.6
2015	5-Sep-15	2	331.4	230.7			2406.6			193.284
2015	5-Sep-15	3	386.5	265.3			2401.1			
2015	5-Sep-15	4	413.1	280.5			2400.9			
2015	5-Sep-15	5	445.8	309.9			2464.7			
2015	5-Sep-15	6	499.1	317.3			2373.1			
2015	5-Sep-15	7	518.6	340.7			2589.9			
2015	5-Sep-15	8	535	329.8			2850.9			
2015	5-Sep-15	9	605	391.6			3211.8			
2015	5-Sep-15	10	917.4	502.9			3619.3			
2015	5-Sep-15	11	940	709.4			3615.8			
2015	5-Sep-15	12	674.2	629.4			3565.7			
2015	5-Sep-15	13	1277.8	826.1			3805.4			
2015	5-Sep-15	14	1083.9	778.1			3687			
2015	5-Sep-15	15	1366.6	873.4			3824.4			
2015	5-Sep-15	16	1251.2	901.7			3829.8			
2015	5-Sep-15	17	1049.4	826.1			3787.5			
2015	5-Sep-15	18	836.4	686			3559			
2015	5-Sep-15	19	684.5	638.2			3476			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	5-Sep-15	20	572.6	552.4			3340.7			
2015	5-Sep-15	21	561	511.9			3288.7			
2015	5-Sep-15	22	640.4	408.6			3054.1			
2015	5-Sep-15	23	828.3	630.9			2616.4			
2015	6-Sep-15	0	626.7	465.9			2443.6			
2015	6-Sep-15	1	478.7	404			2430			
2015	6-Sep-15	2	395.9	259.6			2438.9			
2015	6-Sep-15	3	387.7	245.1			2440.3			
2015	6-Sep-15	4	411.8	250.6			2437.2			
2015	6-Sep-15	5	429.1	270.8			2691.1			
2015	6-Sep-15	6	582.1	469.5			3109.3			
2015	6-Sep-15	7	552.4	481.9			3137.3			
2015	6-Sep-15	8	587.2	643			2995			
2015	6-Sep-15	9	474.7	824			3229			
2015	6-Sep-15	10	507.9	828.6			3499.2			
2015	6-Sep-15	11	557.6	883.4			3770			
2015	6-Sep-15	12	566.9	814.7			3830.2			
2015	6-Sep-15	13	549	906.7			3982.4			
2015	6-Sep-15	14	638.8	976.4			3931.5			
2015	6-Sep-15	15	698.3	1113.5			3890.4			
2015	6-Sep-15	16	817.1	812.8			3977			
2015	6-Sep-15	17	648.5	603			3899.9			
2015	6-Sep-15	18	411	456.5			3748.5			
2015	6-Sep-15	19	395.3	349.5			3328.4			
2015	6-Sep-15	20	395.1	341.4			3156.5			
2015	6-Sep-15	21	324.1	277.1			3167.2			
2015	6-Sep-15	22	197.4	194.1			2968.4			
2015	6-Sep-15	23	280.8	136.9			2558.1			
2015	7-Sep-15	0	304.1	96.1			2491.8			
2015	7-Sep-15	1	312.8	199.2			2452.3			
2015	7-Sep-15	2	311.1	232.5			2429.7			
2015	7-Sep-15	3	300	227.7			2437.7			
2015	7-Sep-15	4	284	212.1			2465.1		0	
2015	7-Sep-15	5	373.3	266.8			2382.5		8.5	
2015	7-Sep-15	6	596.7	507.5			2440.8		29.5	
2015	7-Sep-15	7	857.3	674.2			2429.2		24.1	
2015	7-Sep-15	8	1029.6	734.7			2505		32.9	
2015	7-Sep-15	9	1318	1033.4			2885.1		41.1	
2015	7-Sep-15	10	767.4	761.1			3495.7		32.5	
2015	7-Sep-15	11	1069.6	959.7			3676.5		32.1	
2015	7-Sep-15	12	1258.7	1099			3344.8		33.7	
2015	7-Sep-15	13	1332.5	1132.9			3278.3		43.1	
2015	7-Sep-15	14	1323.3	1169			3711.9		42.8	
2015	7-Sep-15	15	1278.4	1154.1			3948.4		52.4	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	7-Sep-15	16	1258.6	1101.8			3980.3		61	
2015	7-Sep-15	17	1336.1	1132.5			3931.9		64.3	
2015	7-Sep-15	18	1090.7	970.3			3819.2		63.6	
2015	7-Sep-15	19	1082	1099.7			3849.4		67.5	
2015	7-Sep-15	20	741.1	771.4			3717.3		73.2	
2015	7-Sep-15	21	662.4	704			3586.4		109.4	
2015	7-Sep-15	22	547.8	519.3			3299.6		155.9	
2015	7-Sep-15	23	502.1	406.9			2763.4		185.7	
2015	8-Sep-15	0	370.5	315.5			2463.1		235.9	
2015	8-Sep-15	1	272.8	485.4			2412		286.9	
2015	8-Sep-15	2	197.8	420.7			2408.4		390.7	
2015	8-Sep-15	3	159.9	333.3			2425.7		536.3	
2015	8-Sep-15	4	184	337	0.073		2426.1		541	
2015	8-Sep-15	5	258.2	455.4	0.079		2427.3		726	
2015	8-Sep-15	6	298.5	486	0.079		2391.9		846.1	
2015	8-Sep-15	7	366.2	559.3	0.079		2409.3		757.7	
2015	8-Sep-15	8	471.2	652.1	0.067		2533.8		579.4	
2015	8-Sep-15	9	697.2	1013.8	0.067		2853		680.2	
2015	8-Sep-15	10	1025.7	692.1	0.088		3399.6		725.7	
2015	8-Sep-15	11	1335.7	959	0.227		3645.3		643.8	
2015	8-Sep-15	12	1358.5	1113.2	0.346		3892.7		692.5	
2015	8-Sep-15	13	1283	1144.9	0.6		3929.4		849	
2015	8-Sep-15	14	1322	1035	0.792		3961.8		915	
2015	8-Sep-15	15	1386.7	1182.7	0.815		3984		880	
2015	8-Sep-15	16	1442.2	1159	0.835		3969.1		877.7	
2015	8-Sep-15	17	1447.8	1268.8	0.765		3954.8		799	
2015	8-Sep-15	18	1444.3	1262.3	0.537		3957.2		722	
2015	8-Sep-15	19	1442.2	1284.8	0.521		3955.8		720.9	
2015	8-Sep-15	20	1076	992.6	0.218		3823.7		628.6	
2015	8-Sep-15	21	775.8	671.6	0.008		3513.1		605.2	
2015	8-Sep-15	22	374.9	352			3005.9		500.1	
2015	8-Sep-15	23	218.9	156.9			2552.3		465.3	
2015	9-Sep-15	0	135.7	246.8			2444.9		455.9	
2015	9-Sep-15	1	109.4	276.7			2407.9		474.5	
2015	9-Sep-15	2	105.4	270.9			2389.7		483.2	
2015	9-Sep-15	3	108.2	272.6			2387.1		495.5	
2015	9-Sep-15	4	108.3	245.6			2399.3		481.8	
2015	9-Sep-15	5	161.9	325.9			2391.4		586.8	
2015	9-Sep-15	6	200.7	454.8			2389.1		614.1	
2015	9-Sep-15	7	269.3	514.4			2489.9		583.4	
2015	9-Sep-15	8	355.9	403.6			2405		432.3	
2015	9-Sep-15	9	442.4	380.3			2628.6		428.7	
2015	9-Sep-15	10	596.9	563.3			3036.4		675.9	
2015	9-Sep-15	11	857.8	705			3391.7		690.4	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	9-Sep-15	12	1024.7	871.1			3662.8		670.6	
2015	9-Sep-15	13	1023.4	1036.1			3863.1		667.3	
2015	9-Sep-15	14	1154.1	1004.4			3819.9		650.5	
2015	9-Sep-15	15	1286.4	1039.2			3867.9		614.8	
2015	9-Sep-15	16	1068.5	907.4			3910.4		650.9	
2015	9-Sep-15	17	974.2	852.9			3867.8		706.8	
2015	9-Sep-15	18	765.3	633.8			3496.7		760.8	
2015	9-Sep-15	19	746.7	622.5			3526.6		753.5	
2015	9-Sep-15	20	679.4	511.6			3488.8		731.9	
2015	9-Sep-15	21	572.2	382.1			3050.2		598.6	
2015	9-Sep-15	22	376.1	231.4			2585.7		514.9	
2015	9-Sep-15	23	367.6	127.3			2469.7		482.6	
2015	10-Sep-15	0	478.8	91.3			2433.4		488.6	
2015	10-Sep-15	1	457.1	87.9			2441.3		508.4	
2015	10-Sep-15	2	600.5	147.9			2448.9		502.3	
2015	10-Sep-15	3	757.9	228.8			2371.404		514.4	
2015	10-Sep-15	4	749.4	222			2443.3		672.1	
2015	10-Sep-15	5	989.4	266.9			2424.5		713.7	
2015	10-Sep-15	6	1119.4	529.2			2421.3		695.7	
2015	10-Sep-15	7	1327.3	853.6			2462.1		693	
2015	10-Sep-15	8	810.3	511.5			2572		671.1	
2015	10-Sep-15	9	567.2	380.9			2490.9		646	
2015	10-Sep-15	10	445	368.8			2673		612.4	
2015	10-Sep-15	11	822.4	729.8			3257.6		593.8	
2015	10-Sep-15	12	1082.1	809.4			3659.8		597.4	
2015	10-Sep-15	13	1252.2	866			4033.2		629.1	
2015	10-Sep-15	14	1169.9	879.2			4121.8		563.9	
2015	10-Sep-15	15	1042	745.2			4122.8		533.7	
2015	10-Sep-15	16	999.9	740.5			4141		524.4	
2015	10-Sep-15	17	998.5	801.3			4146.5		514.3	
2015	10-Sep-15	18	993.7	763.9			4114.3		506	
2015	10-Sep-15	19	976.8	791.5			4142.3		518.5	
2015	10-Sep-15	20	965.7	752.9			4148		506.9	
2015	10-Sep-15	21	990.6	782.2			4105		502.4	
2015	10-Sep-15	22	958.2	723.7			4103.4		490.3	
2015	10-Sep-15	23	621.2	682.4			3996.7		502.6	
2015	11-Sep-15	0	315.6	387.1			3487.4		542.1	
2015	11-Sep-15	1	215.6	247.9			2912.6		535.4	
2015	11-Sep-15	2	135.8	100.7			2621.3		510.5	
2015	11-Sep-15	3	109	95.8			2521.4		496.8	
2015	11-Sep-15	4	118.5	92.1			2517.1		501.7	
2015	11-Sep-15	5	214.8	235.2			2443.3		498.3	
2015	11-Sep-15	6	436.7	548			2449.9		487.6	
2015	11-Sep-15	7	750.9	687.2			2440.8		501.6	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	11-Sep-15	8	581.4	339.9			2637.1		512	
2015	11-Sep-15	9	429.8	386.6			2990.1		516.3	
2015	11-Sep-15	10	422	296.8			3007.6		511.3	
2015	11-Sep-15	11	455.6	560.5			3462.1		514.3	
2015	11-Sep-15	12	458.4	692.9			3875		607.4	
2015	11-Sep-15	13	422.2	760.3			3965.2		523.7	
2015	11-Sep-15	14	372.1	701.1			3954.1		554.1	
2015	11-Sep-15	15	397	740.9			3919.3		494.9	
2015	11-Sep-15	16	305.9	716.2			3938		479	
2015	11-Sep-15	17	169.8	702.4			3966.3		474.3	
2015	11-Sep-15	18	195.6	494.4			3967.6		528.6	
2015	11-Sep-15	19	256.3	549.8			3921.1		541.5	
2015	11-Sep-15	20	262.7	380.9			3906.8		520.7	
2015	11-Sep-15	21	278.5	475.1			3911.6		483.6	
2015	11-Sep-15	22	255.9	433.2			3912		480.9	
2015	11-Sep-15	23	17.388	574.7			3901.5		502.5	
2015	12-Sep-15	0		360.4			3855.1		510.2	
2015	12-Sep-15	1		328.4			3874		509.6	
2015	12-Sep-15	2		264			3893.2		535.9	
2015	12-Sep-15	3		187.2			3882.9		508.4	
2015	12-Sep-15	4		224.9			3830.5		526.4	
2015	12-Sep-15	5		179.7			3539.2		552.7	
2015	12-Sep-15	6		233.9			3386.7		541.1	
2015	12-Sep-15	7		213.3			2970.8		526.4	
2015	12-Sep-15	8		183.7			2569.8		522.2	
2015	12-Sep-15	9		196.7			2467.3		523.7	
2015	12-Sep-15	10		200.1			2371.8		531.2	
2015	12-Sep-15	11		215.8			2377		532.5	
2015	12-Sep-15	12		200.2			2360		529.2	
2015	12-Sep-15	13		207.6			2356.2		553	
2015	12-Sep-15	14		200.7			2390.5		534.7	
2015	12-Sep-15	15		245.8			2585.4		560.5	
2015	12-Sep-15	16		247.9			2728.5		532.2	
2015	12-Sep-15	17		209.1			2446.1		524.5	
2015	12-Sep-15	18		202.6			2361.8		544.5	
2015	12-Sep-15	19		217.1			2359.9		569.4	
2015	12-Sep-15	20		197.7			2347.2		537	
2015	12-Sep-15	21		203.7			2341.1		512.5	
2015	12-Sep-15	22		192.7			2351.1		505.3	
2015	12-Sep-15	23		207.9			2351.6		505.9	
2015	13-Sep-15	0		210.8			2337.1		505.6	
2015	13-Sep-15	1		226.3			2340		504.9	
2015	13-Sep-15	2		231.5			2338		490.1	
2015	13-Sep-15	3		237.9			2337.9		487.2	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	13-Sep-15	4		221.4			2344.3		492.5	
2015	13-Sep-15	5		245.9			2352.8		500.1	
2015	13-Sep-15	6		228.3			2343		505.2	0.368
2015	13-Sep-15	7		228.5			2351.9		519	0
2015	13-Sep-15	8		220.5			2441.1		524	0
2015	13-Sep-15	9		227.9			2600		524.3	0
2015	13-Sep-15	10		228.8			2434.8		510.6	0
2015	13-Sep-15	11		244.3			2664.1		511.4	0
2015	13-Sep-15	12		281.2		0	2918.6		518	0
2015	13-Sep-15	13		472		0	3161.5		527.9	0
2015	13-Sep-15	14		574.7		0	3293.8		577.5	4.3
2015	13-Sep-15	15		917.9		0	3326.7		546.4	2.4
2015	13-Sep-15	16		785.1		0	3082.3		528.8	1.2
2015	13-Sep-15	17		806.9		0	2586.3		494.6	3.1
2015	13-Sep-15	18		718.7		0	2372.2		484.8	46.2
2015	13-Sep-15	19		682.2		0	2368.8		482	72.9
2015	13-Sep-15	20		424.3		0	2421.9		509.4	135
2015	13-Sep-15	21		313.7		0	2450.6		515.3	229.4
2015	13-Sep-15	22		232.6		0	2385.4		507.2	271.5
2015	13-Sep-15	23		249.7		0	2394.6		490.3	281.7
2015	14-Sep-15	0		243.4		0	2460.1		500.1	288.5
2015	14-Sep-15	1		246.8		0	2503		501.1	318.5
2015	14-Sep-15	2		231.8		0	2384		504.7	318.9
2015	14-Sep-15	3		238.2		80.8	2394.2		497.1	314.9
2015	14-Sep-15	4		587.7		348.6	2676.4		581.6	515.9
2015	14-Sep-15	5		788.7		468.9	3364.5		646.9	708.7
2015	14-Sep-15	6		884.2		364.7	3765.8		677.7	718.3
2015	14-Sep-15	7		890.7		422.1	3887.1		690.9	693.7
2015	14-Sep-15	8		767.7		589.5	3863.6		654.4	698.8
2015	14-Sep-15	9		1003.8		614.2	3881.6		660.1	681.5
2015	14-Sep-15	10		950.6		476.6	3868.2		541.5	553.2
2015	14-Sep-15	11		944.5		359.4	3900.6		501.8	506.1
2015	14-Sep-15	12		879.7		365.2	3927.3		505.4	473.8
2015	14-Sep-15	13		957.1		365.2	3835.9		684.7	391.9
2015	14-Sep-15	14		773.8		373.6	3488.9		745.6	381.1
2015	14-Sep-15	15		815.2		396.4	3514.2		787.2	345.9
2015	14-Sep-15	16		845		372.9	3794.8		740	251.3
2015	14-Sep-15	17		670.7		367.2	3685.7		631.2	251.9
2015	14-Sep-15	18		276.2		385.5	3417.4		549	259.9
2015	14-Sep-15	19		450.3		436.8	3429.4		518.5	265.6
2015	14-Sep-15	20		236.9		367.3	3508.6		501.6	248.6
2015	14-Sep-15	21		363		350	3645.5		544.9	250.6
2015	14-Sep-15	22		240.1		326.8	3757.9		541.9	259
2015	14-Sep-15	23		335.4		419.5	3786.2		501.2	253.4



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	15-Sep-15	0		148.6		361.3	3368.8		476.9	247.5
2015	15-Sep-15	1		152.4		366.2	2953.9		485.9	247
2015	15-Sep-15	2		121.6		363.4	2693		493.9	247.3
2015	15-Sep-15	3		128.3		361.4	2681.9		497.5	274.8
2015	15-Sep-15	4		92.2		361.7	2760.8		487.6	281.8
2015	15-Sep-15	5		235.9		602	3200.3		602.2	473.3
2015	15-Sep-15	6		459.9		870.9	3716.4		692.1	715.4
2015	15-Sep-15	7		549.4		1016.9	3835		632.5	710.9
2015	15-Sep-15	8		217.4		887.1	3676.1		529.8	706.2
2015	15-Sep-15	9		386.2		1039.3	3505.1		510.5	690.4
2015	15-Sep-15	10		293.4		951.8	3464.3		494.5	681.1
2015	15-Sep-15	11		377.3		861.4	3481.1		486.5	541.8
2015	15-Sep-15	12		296.7		903.3	3284.2		481.9	437.8
2015	15-Sep-15	13		862.8		758.1	3673.5		487.6	461.6
2015	15-Sep-15	14		921.8		584.5	3835.7		599.9	568.5
2015	15-Sep-15	15		911.2		505.4	3782.3		582.5	557
2015	15-Sep-15	16		843.8		494.3	3848.7		538	530.2
2015	15-Sep-15	17		871.2		415.3	3867.3		556.5	554
2015	15-Sep-15	18		446.8		398.6	3697.2		511	510.5
2015	15-Sep-15	19		496.5		395.1	3603.6		533.6	513.4
2015	15-Sep-15	20		534.1		500	3504		620.2	536.1
2015	15-Sep-15	21		958		918.3	3848.3		701.5	636.1
2015	15-Sep-15	22		844.4		1049.5	3886.9		672.4	624.1
2015	15-Sep-15	23		586		735.7	3660.2		518.2	486.9
2015	16-Sep-15	0		213.1		428.5	3243.7		503.3	352.9
2015	16-Sep-15	1		227.7		366.4	2770.5		502.2	267.3
2015	16-Sep-15	2		311		379.4	2426.3		484.2	261.2
2015	16-Sep-15	3		390.8		392.7	2403.2		494.6	256
2015	16-Sep-15	4		261.7		390.8	2447		523.3	262.7
2015	16-Sep-15	5		293.4		389.9	2691.8		520.8	247.3
2015	16-Sep-15	6		298.1		382.5	2438.4		517.6	246.7
2015	16-Sep-15	7		346.2		387.8	2376.6		495.7	240.2
2015	16-Sep-15	8		276.7		395.5	2426		482.2	235.8
2015	16-Sep-15	9		295.4		394.7	2469.7		478.9	235.1
2015	16-Sep-15	10		281.5		397.2	2406.7		490.8	238.5
2015	16-Sep-15	11		364.6		471.5	2609.5		546.2	314.6
2015	16-Sep-15	12		719.3		489.9	3211.5		673.7	541.4
2015	16-Sep-15	13		1027.6		410	3636.9		589.4	456
2015	16-Sep-15	14		1699.4		414.4	3901.8		536.4	431
2015	16-Sep-15	15		1242.9		431	3964.6		538.4	399.7
2015	16-Sep-15	16		928.4		424.8	3944.5		522.8	432.9
2015	16-Sep-15	17		811.7		410.9	3886.4		509.5	326.1
2015	16-Sep-15	18		519.4		410.5	3782.9		507.7	265.7
2015	16-Sep-15	19		756.2		415.2	3818.2		507.6	296.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	16-Sep-15	20		539.6		396.5	3756.8		498.9	246.9
2015	16-Sep-15	21		447.9		401	3498		505.7	245.5
2015	16-Sep-15	22		282.8		428.8	3250.8		499.1	250.8
2015	16-Sep-15	23		642.2		83.176	2862.9		494.7	257.8
2015	17-Sep-15	0		413.5			2565.3		384.8	238
2015	17-Sep-15	1		440.7			2426.1		251.6	235.9
2015	17-Sep-15	2		466.2			2562.3		192.1	235
2015	17-Sep-15	3		578			3293.7		16.523	235.8
2015	17-Sep-15	4		996.4			3782.7			233
2015	17-Sep-15	5		921.3			3865.8			146
2015	17-Sep-15	6		1040.2			3888.4			290.4
2015	17-Sep-15	7		1109.2			3865.1			363.2
2015	17-Sep-15	8		700.2			3882.1			383.3
2015	17-Sep-15	9		1037.7			3908.3			324.6
2015	17-Sep-15	10		537.6			3743.3			37.584
2015	17-Sep-15	11		346.2			3533.2			
2015	17-Sep-15	12		254			3619.8			
2015	17-Sep-15	13		470.5			3706			
2015	17-Sep-15	14		879.9			3911			
2015	17-Sep-15	15		1078.3			3989.6			
2015	17-Sep-15	16		865.9			4001			
2015	17-Sep-15	17		828.3			3950.8			
2015	17-Sep-15	18		445.7			3696.4			
2015	17-Sep-15	19		507.9			3686.8			
2015	17-Sep-15	20		323.5			3662.9			
2015	17-Sep-15	21		396.1	0.006		3403.1			
2015	17-Sep-15	22		263	0.076		2992			
2015	17-Sep-15	23		631.9	0.079		2794.6			
2015	18-Sep-15	0		488.4	0.076		2457.2			
2015	18-Sep-15	1		399.9	0.06		2510.2			
2015	18-Sep-15	2		330.2	0.061		2480.9			
2015	18-Sep-15	3		347.3	0.062		2442.5			
2015	18-Sep-15	4		400.4	0.058		2699.1			
2015	18-Sep-15	5		746.4	0.077		3530.2			
2015	18-Sep-15	6		1039.8	0.092		3992.5			
2015	18-Sep-15	7		967.5	0.236		4064.1			
2015	18-Sep-15	8		529.5	0.255		4032.8			
2015	18-Sep-15	9		860.4	0.246		4045.1			
2015	18-Sep-15	10		470	0.245		3950.6			
2015	18-Sep-15	11		268.8	0.24		3632.1			
2015	18-Sep-15	12		236.4	0.241		3596.7			
2015	18-Sep-15	13		465.6	0.251		3873.9			
2015	18-Sep-15	14		682.8	0.298		4079.6			
2015	18-Sep-15	15		990.6	0.245		4093.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	18-Sep-15	16		887	0.233		4049.1			
2015	18-Sep-15	17		711.4	0.232		3760.7			
2015	18-Sep-15	18		463.5	0.242		3418.7			
2015	18-Sep-15	19		680.2	0.247		3650.1			
2015	18-Sep-15	20		846	0.067		3664			
2015	18-Sep-15	21		485.5			3178.9			
2015	18-Sep-15	22		227.2			2842.8			
2015	18-Sep-15	23		635.4			2513.1			
2015	19-Sep-15	0		559.9			2481.4			
2015	19-Sep-15	1		381.4			2478.8			
2015	19-Sep-15	2		317.2			2473			
2015	19-Sep-15	3		271.8			2477.4			
2015	19-Sep-15	4		240.3			2477.9			
2015	19-Sep-15	5		251.7			2501.3			
2015	19-Sep-15	6		294.6			2466.9			
2015	19-Sep-15	7		280.6			2456.7			
2015	19-Sep-15	8		206.1			2409.9			
2015	19-Sep-15	9		263.7			2654.6			
2015	19-Sep-15	10		296.6			3120			
2015	19-Sep-15	11		364			3281.4			
2015	19-Sep-15	12		421.7			3439.5			
2015	19-Sep-15	13		484.4			3833.4			
2015	19-Sep-15	14		760.9			4008.1			
2015	19-Sep-15	15		894.9			3966.9			
2015	19-Sep-15	16		742.6			3840.2			
2015	19-Sep-15	17		801.3			3835.4			
2015	19-Sep-15	18		622.9			3636.2			
2015	19-Sep-15	19		864.1			3837.2			
2015	19-Sep-15	20		748.5			3744.9			
2015	19-Sep-15	21		469			3421.2			
2015	19-Sep-15	22		441.2			2920.6			
2015	19-Sep-15	23		337.9			2487.6			
2015	20-Sep-15	0		264.7			2385.8			
2015	20-Sep-15	1		267.9			2384.3			
2015	20-Sep-15	2		266.9			2374.4			
2015	20-Sep-15	3		283.2			2355.4			
2015	20-Sep-15	4		282.1			2364.8			
2015	20-Sep-15	5		285.6			2336.8			
2015	20-Sep-15	6		287.2			2342			
2015	20-Sep-15	7		259.7			2346.2			
2015	20-Sep-15	8		211.8			2338.9			
2015	20-Sep-15	9		239.9			2660.1			
2015	20-Sep-15	10		246.1			2928.8			
2015	20-Sep-15	11		358.484			3038.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	20-Sep-15	12		359.9			3452.5			
2015	20-Sep-15	13		535.2			3713.2			
2015	20-Sep-15	14		543.4			3728.1			
2015	20-Sep-15	15		655.2			3603.1			
2015	20-Sep-15	16		679.1			3557.4			
2015	20-Sep-15	17		343.9			3393			
2015	20-Sep-15	18		344.5			3102.2			
2015	20-Sep-15	19		764.7			3383.4			
2015	20-Sep-15	20		409.7			3038.9			
2015	20-Sep-15	21		491.5			2629.1			
2015	20-Sep-15	22		238.9			2355.5			
2015	20-Sep-15	23		266.4			2358.5			
2015	21-Sep-15	0		316.6			2344.1			
2015	21-Sep-15	1		349			2344.4			
2015	21-Sep-15	2		261.3			2336.6			
2015	21-Sep-15	3		252.7			2326.3			
2015	21-Sep-15	4		281			2349.9			
2015	21-Sep-15	5		287.2			2581.5			
2015	21-Sep-15	6		287.1			2847.6			
2015	21-Sep-15	7		366.3			3125.3			
2015	21-Sep-15	8		323.4			2995.8			
2015	21-Sep-15	9		348			3081.2			
2015	21-Sep-15	10		369.3			3074.6			
2015	21-Sep-15	11		528.4			3256.8			
2015	21-Sep-15	12		466.9			3106.4			
2015	21-Sep-15	13		632.4			3240.5			
2015	21-Sep-15	14		426.6			3217.6			
2015	21-Sep-15	15		500.6			3105.3			
2015	21-Sep-15	16		548.7			3330.7			
2015	21-Sep-15	17		666.1			3242.7			
2015	21-Sep-15	18		463.6			2797.1			
2015	21-Sep-15	19		361.1			2692.8			
2015	21-Sep-15	20		259.3			2365.2			
2015	21-Sep-15	21		260.5			2312.2			
2015	21-Sep-15	22		231.1			2297.1			
2015	21-Sep-15	23		237			2313.2			
2015	22-Sep-15	0		233.6			2296.8			
2015	22-Sep-15	1		244.9			2263.9			
2015	22-Sep-15	2		236.1			2267			
2015	22-Sep-15	3		239.4			2264.4			
2015	22-Sep-15	4		359.4			2265.2			
2015	22-Sep-15	5		641.2			2267.9			
2015	22-Sep-15	6		957.3			2264.2			
2015	22-Sep-15	7		955.9			2234.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	22-Sep-15	8		658.8			2281.9			
2015	22-Sep-15	9		903.4			2596.3			
2015	22-Sep-15	10		868.3			2822.1			
2015	22-Sep-15	11		956.3			2984.8			
2015	22-Sep-15	12		755.1			3232.8			
2015	22-Sep-15	13		884.7			2846.1			
2015	22-Sep-15	14		722.8			3018.6			
2015	22-Sep-15	15		886.7			3277			
2015	22-Sep-15	16		620.3			3340.5			
2015	22-Sep-15	17		809.3			3332.1			
2015	22-Sep-15	18		426.7			3288.1			
2015	22-Sep-15	19		666.6			3447.2			
2015	22-Sep-15	20		239.6			3128.2			
2015	22-Sep-15	21		255.4			2654.7			
2015	22-Sep-15	22		205.6			2390.9			
2015	22-Sep-15	23		276.4			2250.5			
2015	23-Sep-15	0		249.1			2279.9			
2015	23-Sep-15	1		249			2259.2			
2015	23-Sep-15	2		229.3			2244.3			
2015	23-Sep-15	3		255.3			2247.2			
2015	23-Sep-15	4		247.8			2253.6			
2015	23-Sep-15	5		266.9			2253.7			
2015	23-Sep-15	6		290.3			2277.2			
2015	23-Sep-15	7		275.9			2263.7			
2015	23-Sep-15	8		260.5			2267.7			
2015	23-Sep-15	9		287.1			2309.6			
2015	23-Sep-15	10		254.6			2299			
2015	23-Sep-15	11		257.4			2302.6			
2015	23-Sep-15	12		246.8			2396.9			
2015	23-Sep-15	13		248.4			2373.1			
2015	23-Sep-15	14		228.2			2407.9			
2015	23-Sep-15	15		300.6			2769.2			
2015	23-Sep-15	16		334.9			2911.8			
2015	23-Sep-15	17		260.8			2743.6			
2015	23-Sep-15	18		201			2416.1			
2015	23-Sep-15	19		209.6			2283.1			
2015	23-Sep-15	20		385.9			2331.8			
2015	23-Sep-15	21		297.5			2285.6			
2015	23-Sep-15	22		207.3			2269.2			
2015	23-Sep-15	23		229.1			2269.6			
2015	24-Sep-15	0		200.1			2273.4			
2015	24-Sep-15	1		226.7			2267.4			
2015	24-Sep-15	2		219.5			2262.4			
2015	24-Sep-15	3		213.2			2240.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	24-Sep-15	4		208.1			2245.5			
2015	24-Sep-15	5		205.4			2238.9			
2015	24-Sep-15	6		216.5			2240.1			
2015	24-Sep-15	7		212.7			2252.9			
2015	24-Sep-15	8		190.8			2304.5			
2015	24-Sep-15	9		198.8			2595.3			
2015	24-Sep-15	10		183			2293.2			
2015	24-Sep-15	11		210.7			2298			
2015	24-Sep-15	12		200.8			2275			
2015	24-Sep-15	13		211.9			2398.5			
2015	24-Sep-15	14		201.5			2731.8			
2015	24-Sep-15	15		278.1			2900.8			
2015	24-Sep-15	16		307.8			3055.2			
2015	24-Sep-15	17		398.5			3118.9			
2015	24-Sep-15	18		288.5			2685.2			
2015	24-Sep-15	19		252			2728.7			
2015	24-Sep-15	20		209.6			2453.2			
2015	24-Sep-15	21		183			2274			
2015	24-Sep-15	22		203.1			2256.9			
2015	24-Sep-15	23		208.3			2253.1			
2015	25-Sep-15	0		200.9			2254.3			
2015	25-Sep-15	1		225.9			2244.6			
2015	25-Sep-15	2		208.7			2250.4			
2015	25-Sep-15	3		203.5			2248.8			
2015	25-Sep-15	4		225			2254.7			
2015	25-Sep-15	5		235			2369			
2015	25-Sep-15	6		253.8			2272.2			
2015	25-Sep-15	7		254.4			2265.5			
2015	25-Sep-15	8		241			2534.3			
2015	25-Sep-15	9		346.4			2954.5			
2015	25-Sep-15	10		299.4			2875.6			
2015	25-Sep-15	11		231.5			2535.3			
2015	25-Sep-15	12		226.8			2389.9			
2015	25-Sep-15	13		236.4			2280.9			
2015	25-Sep-15	14		225.6			2250.4			
2015	25-Sep-15	15		229			2275.6			
2015	25-Sep-15	16		216.5			2322			
2015	25-Sep-15	17		236.9			2360.9			
2015	25-Sep-15	18		238.7			2429.5			
2015	25-Sep-15	19		265.5			2720.3			
2015	25-Sep-15	20		215.8			2324.7			
2015	25-Sep-15	21		223.9			2265.8			
2015	25-Sep-15	22		214.7			2278.1			
2015	25-Sep-15	23		217.9			2259.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	26-Sep-15	0		215.7			2247.2			
2015	26-Sep-15	1		239.9			2269.2			
2015	26-Sep-15	2		229.6			2268.1			
2015	26-Sep-15	3		251.3			2253.9			
2015	26-Sep-15	4		255			2258.1			
2015	26-Sep-15	5		268.6			2244.7			
2015	26-Sep-15	6		260.8			2244.4			
2015	26-Sep-15	7		259.8			2264.5			
2015	26-Sep-15	8		241.2			2414.3			
2015	26-Sep-15	9		258.8			2376.9			
2015	26-Sep-15	10		270.5			2378.6			
2015	26-Sep-15	11		270.6			2438.2			
2015	26-Sep-15	12		273.9			2581			
2015	26-Sep-15	13		272.9			2724.6			
2015	26-Sep-15	14		268.4			2567.5			
2015	26-Sep-15	15		274.7			2782.4			
2015	26-Sep-15	16		268			3085.6			
2015	26-Sep-15	17		273.1			3162.9			
2015	26-Sep-15	18		278.4			3371.6			
2015	26-Sep-15	19		285.6			3342.3			
2015	26-Sep-15	20		292.9			2837.9			
2015	26-Sep-15	21		286.2			2608			
2015	26-Sep-15	22		264.9			2397.7			
2015	26-Sep-15	23		267.2			2411.3			
2015	27-Sep-15	0		242.5			2459.7			
2015	27-Sep-15	1		257.9			2341			
2015	27-Sep-15	2		241.9			2332.2			
2015	27-Sep-15	3		245.2			2318.3			
2015	27-Sep-15	4		238.5			2322.2			
2015	27-Sep-15	5		205.5			2298.8			
2015	27-Sep-15	6		263.9			2610.6			
2015	27-Sep-15	7		266.5			2837.6			
2015	27-Sep-15	8		245.3			2869.7			
2015	27-Sep-15	9		240			2583.4			
2015	27-Sep-15	10		287.7			2859.1			
2015	27-Sep-15	11		313.9			2889.5			
2015	27-Sep-15	12		253.7			2983.6			
2015	27-Sep-15	13		345.3			3131.1			
2015	27-Sep-15	14		500.1			3456.5			
2015	27-Sep-15	15		612.1			3577			
2015	27-Sep-15	16		842.2			3837.7			
2015	27-Sep-15	17		981.1			3680.7			
2015	27-Sep-15	18		846.1			3576.3			
2015	27-Sep-15	19		969.7			3731.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	27-Sep-15	20		645.1			3621			
2015	27-Sep-15	21		363.1			3159.6			
2015	27-Sep-15	22		382.1			2724			
2015	27-Sep-15	23		325.2			2404.2			
2015	28-Sep-15	0		242.2			2405.5			
2015	28-Sep-15	1		259.4			2410.7			
2015	28-Sep-15	2		224.7			2403.4			
2015	28-Sep-15	3		351.8			2419.3			
2015	28-Sep-15	4		803.6			2407.7			
2015	28-Sep-15	5		962			2451.1			
2015	28-Sep-15	6		798.7			2392.7			
2015	28-Sep-15	7		798.7			2624.1			
2015	28-Sep-15	8		477.1			3021.2			
2015	28-Sep-15	9		956.9			3534.8			
2015	28-Sep-15	10		765.4			3665			
2015	28-Sep-15	11		829.3			3781.1			
2015	28-Sep-15	12		687.8			3824.4			
2015	28-Sep-15	13		1047			3888.1			
2015	28-Sep-15	14		829.8			3913.2			
2015	28-Sep-15	15		984.4			3941.4			
2015	28-Sep-15	16		810.1			3924.3			
2015	28-Sep-15	17		997.6			3952.6			
2015	28-Sep-15	18		793.7			3950.6			
2015	28-Sep-15	19		1014.7			3964.5			
2015	28-Sep-15	20		735.9			3941.9			
2015	28-Sep-15	21		453	0.062		3630.1			
2015	28-Sep-15	22		221.6	0.067		3136.5			
2015	28-Sep-15	23		363.8	0.067		2577.1			
2015	29-Sep-15	0		150	0.067		2386.4			
2015	29-Sep-15	1		152.9	0.07		2401			
2015	29-Sep-15	2		100.6	0.071		2575.7			
2015	29-Sep-15	3		165.9	0.079		2749.2			
2015	29-Sep-15	4		265.7	0.084		2512.6			
2015	29-Sep-15	5		798.5	0.129		2893.7			
2015	29-Sep-15	6		1012.6	0.247		3493.2			
2015	29-Sep-15	7		980	0.254		3416.9			
2015	29-Sep-15	8		621.2	0.256		3470.2			
2015	29-Sep-15	9		607.1	0.274		3412.7			
2015	29-Sep-15	10		691.4	0.431		3704			
2015	29-Sep-15	11		785.1	0.463		3790.1			
2015	29-Sep-15	12		873.3	0.687		3824.5			
2015	29-Sep-15	13		819.8	0.845		3887.1			
2015	29-Sep-15	14		838.6	0.822		3842			
2015	29-Sep-15	15		857.2	0.779		3856			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	29-Sep-15	16		791.7	0.748		3887.5			
2015	29-Sep-15	17		798.5	0.841		3874.8			
2015	29-Sep-15	18		651.5	0.867		3877.7			
2015	29-Sep-15	19		723.4	0.789		3911			
2015	29-Sep-15	20		700.8	0.601		3865.6			
2015	29-Sep-15	21		558.2	0.472		3842			
2015	29-Sep-15	22		113	0.491		3860.5			
2015	29-Sep-15	23		228.1	0.486		3881.9			
2015	30-Sep-15	0		139.4	0.747		3898.5			
2015	30-Sep-15	1		277.8	0.534		3789.2			
2015	30-Sep-15	2		272	0.297		3688.1			
2015	30-Sep-15	3		300.5	0.243		3649.1			
2015	30-Sep-15	4		305.8	0.327		3745			
2015	30-Sep-15	5		333.5	0.422		3837.3			
2015	30-Sep-15	6		378.6	0.606		3886.8			
2015	30-Sep-15	7		606.1	0.699	0	3837.4			
2015	30-Sep-15	8		623.5	0.674	0	3833.2			
2015	30-Sep-15	9		654.8	0.525	2.3	3853.6			
2015	30-Sep-15	10		611.2	0.628	0	3848.3			
2015	30-Sep-15	11		572.1	0.777	0.3	3865.8			
2015	30-Sep-15	12		556.5	0.643	0.06	3832.9			
2015	30-Sep-15	13		545.4	0.353	0.513	3522			
2015	30-Sep-15	14		292.6	0.239	0.528	3095.9			
2015	30-Sep-15	15		321.8	0.24	6.954	2748.3			
2015	30-Sep-15	16		304.2	0.235	4.1	2691.2			
2015	30-Sep-15	17		335.5	0.232	0.9	2447.5			
2015	30-Sep-15	18		321.6	0.249	0	2809.2			
2015	30-Sep-15	19		324.9	0.237	0	2767.7			
2015	30-Sep-15	20		183.3	0.236	0	2426.1			
2015	30-Sep-15	21		149	0.229	0	2391			
2015	30-Sep-15	22		128.2	0.178	0	2415.9			
2015	30-Sep-15	23		138.3		0	2376.1			
2015	1-Oct-15	0		189.4		0.5	2374.5			
2015	1-Oct-15	1		202.3		65.5	2374.7			
2015	1-Oct-15	2		209.4		215.2	2376.8			
2015	1-Oct-15	3		202.3		486.9	2361			
2015	1-Oct-15	4		212.3		844.5	2372.7			
2015	1-Oct-15	5		244.1		1022.1	2352.3			
2015	1-Oct-15	6		315.2		1058.6	2372.1			
2015	1-Oct-15	7		316.5		780.8	2367.6			
2015	1-Oct-15	8		337.7		778.7	2349.8			
2015	1-Oct-15	9		390.5		770.7	2359.1			
2015	1-Oct-15	10		292.5		759	2359.8			
2015	1-Oct-15	11		215.9		941.9	2390.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Oct-15	12		234.9		1078.8	2527.9			
2015	1-Oct-15	13		223.5		1017.6	2373			
2015	1-Oct-15	14		233.9		1003.1	2361.4			
2015	1-Oct-15	15		229.6		1000.7	2351.7			
2015	1-Oct-15	16		328.5		1005.3	2489.5			
2015	1-Oct-15	17		704.1		891.7	2675.2			
2015	1-Oct-15	18		753		601.3	2380.4			
2015	1-Oct-15	19		579.4		63.64	2392.9			
2015	1-Oct-15	20		401			2360.9			
2015	1-Oct-15	21		329.7			2369.2			
2015	1-Oct-15	22		295.6			2365.3			
2015	1-Oct-15	23		239.6			2371.1			
2015	2-Oct-15	0		243.6			2362.8			
2015	2-Oct-15	1		240.9			2366.2			
2015	2-Oct-15	2		249.3			2354.1			
2015	2-Oct-15	3		241.2			2370.8			
2015	2-Oct-15	4		244.3			2355.9			
2015	2-Oct-15	5		240.2			2391.9			
2015	2-Oct-15	6		269.7			2398.2			
2015	2-Oct-15	7		270.4			2364.7			
2015	2-Oct-15	8		263.1			2394.8			
2015	2-Oct-15	9		189.8			2355.3			
2015	2-Oct-15	10		186.7			2356.3			
2015	2-Oct-15	11		188.7			2351.4			
2015	2-Oct-15	12		190			2345.3			
2015	2-Oct-15	13		187.8			2326			
2015	2-Oct-15	14		177.4			2329.4			
2015	2-Oct-15	15		189.4			2337.9			
2015	2-Oct-15	16		182.7			2372.5			
2015	2-Oct-15	17		213.3			2324.3			
2015	2-Oct-15	18		213.6			2335.5			
2015	2-Oct-15	19		260.5			2316.6			
2015	2-Oct-15	20		293.9			2357.6			
2015	2-Oct-15	21		253.8			2319.7			
2015	2-Oct-15	22		252			2312.9			
2015	2-Oct-15	23		222			2319			
2015	3-Oct-15	0		221.9			2303.8			
2015	3-Oct-15	1		246.7			2295.7			
2015	3-Oct-15	2		283.4			2301.7			
2015	3-Oct-15	3		248.2			2295.5			
2015	3-Oct-15	4		243.4			2301.9			
2015	3-Oct-15	5		244.6			2270.7			
2015	3-Oct-15	6		208.2			2370			
2015	3-Oct-15	7		261.8			2453.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	3-Oct-15	8		382.6			2814.8			
2015	3-Oct-15	9		466.9			2674.5			
2015	3-Oct-15	10		476.2			2547.1			
2015	3-Oct-15	11		449.6			2447.7			
2015	3-Oct-15	12		524.8			2429.9			
2015	3-Oct-15	13		509.7			2403.9			
2015	3-Oct-15	14		515.1			2362.7			
2015	3-Oct-15	15		642.3			2757.9			
2015	3-Oct-15	16		626.4			2835.1			
2015	3-Oct-15	17		670.3			2665			
2015	3-Oct-15	18		707.4			2637.8			
2015	3-Oct-15	19		693.5			2755.2			
2015	3-Oct-15	20		679.8			2527			
2015	3-Oct-15	21		688.3			2304.5			
2015	3-Oct-15	22		517.4			2277.9			
2015	3-Oct-15	23		522.5			2281			
2015	4-Oct-15	0		514.8			2273.7			
2015	4-Oct-15	1		513.8			2280.4			
2015	4-Oct-15	2		494.6			2296.2			
2015	4-Oct-15	3		522.4			2299.9			
2015	4-Oct-15	4		522.5			2305			
2015	4-Oct-15	5		512			2286.7			
2015	4-Oct-15	6		504.5			2285.2			
2015	4-Oct-15	7		507.3			2297.7			
2015	4-Oct-15	8		397.7			2291.9			
2015	4-Oct-15	9		390.4			2408.5			
2015	4-Oct-15	10		349.5			2314.4			
2015	4-Oct-15	11		389.8			2375			
2015	4-Oct-15	12		400.6			2588.6			
2015	4-Oct-15	13		653.2			2826.2			
2015	4-Oct-15	14		807.3			3168.4			
2015	4-Oct-15	15		915.7			2998.3			
2015	4-Oct-15	16		774.2			2730.6			
2015	4-Oct-15	17		673.1			2596			
2015	4-Oct-15	18		612.3			2518.9			
2015	4-Oct-15	19		670.6			2636.8			
2015	4-Oct-15	20		455.4			2530			
2015	4-Oct-15	21		457.8			2431.7			
2015	4-Oct-15	22		430			2287.6			
2015	4-Oct-15	23		421.1			2270.4			
2015	5-Oct-15	0		487.1			2257.5			
2015	5-Oct-15	1		487.4			2265.2			
2015	5-Oct-15	2		443.1			2254.4			
2015	5-Oct-15	3		462.7			2257.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	5-Oct-15	4		571			2259.7			
2015	5-Oct-15	5		655.1			2401			
2015	5-Oct-15	6		765			2628.7			
2015	5-Oct-15	7		911.3			2752.3			
2015	5-Oct-15	8		870.6			3311.3			
2015	5-Oct-15	9		927.4			3582.6			
2015	5-Oct-15	10		694.3			3364.3			
2015	5-Oct-15	11		744.4			3468.2			
2015	5-Oct-15	12		608			3268.2			
2015	5-Oct-15	13		651.2			3614.8			
2015	5-Oct-15	14		705.3			3651.7			
2015	5-Oct-15	15		692.8			3718.5			
2015	5-Oct-15	16		711.7			3704.2			
2015	5-Oct-15	17		566.4			3614.7			
2015	5-Oct-15	18		567.3			3526.9			
2015	5-Oct-15	19		596.2			3533.8			
2015	5-Oct-15	20		672.1			3586.1			
2015	5-Oct-15	21		612.9			3349.5			
2015	5-Oct-15	22		492			2940.4			
2015	5-Oct-15	23		373.8			2497.9			
2015	6-Oct-15	0		378.5			2253.5			
2015	6-Oct-15	1		351.8			2262.6			
2015	6-Oct-15	2		328.5			2281.4			
2015	6-Oct-15	3		348.9			2277.3			
2015	6-Oct-15	4		443.1			2559.1			
2015	6-Oct-15	5		577.9			3499			
2015	6-Oct-15	6		730.7			3765.3			
2015	6-Oct-15	7		855			3786.8			
2015	6-Oct-15	8		702.3			3592			
2015	6-Oct-15	9		816.2			3406.3			
2015	6-Oct-15	10		730.8			3019.3			
2015	6-Oct-15	11		794			3114.1			0
2015	6-Oct-15	12		643.4			3118.7			0.2
2015	6-Oct-15	13		742.3			3374.6			0
2015	6-Oct-15	14		932.7			3575.1			0
2015	6-Oct-15	15		776			3400			0
2015	6-Oct-15	16		462.4			3329.5			0
2015	6-Oct-15	17		291.1			3166.5			0
2015	6-Oct-15	18		356.6			3259.7			0
2015	6-Oct-15	19		417.7			3449.9			0.1
2015	6-Oct-15	20		229.1			3069.7			0.7
2015	6-Oct-15	21		188.8			2605.6			5.4
2015	6-Oct-15	22		123.8			2274.1			10.6
2015	6-Oct-15	23		184			2248.9			20.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	7-Oct-15	0		175			2255.5			52.1
2015	7-Oct-15	1		194			2237.2			42.8
2015	7-Oct-15	2		171.5			2217.7			43.8
2015	7-Oct-15	3		187.8			2211.3			158.4
2015	7-Oct-15	4		253			2246.9			260.5
2015	7-Oct-15	5		519.3			2982.4			261.4
2015	7-Oct-15	6		580			3451.7			239.1
2015	7-Oct-15	7		573.9			3463.4			246.2
2015	7-Oct-15	8		381.3			3133			252.2
2015	7-Oct-15	9		375.2			2885.4			271.2
2015	7-Oct-15	10		542.3			2834.8			347.9
2015	7-Oct-15	11		519.5			2770.6			468.5
2015	7-Oct-15	12		870.5			3101.8			566.6
2015	7-Oct-15	13		685.1			3027.1			487.1
2015	7-Oct-15	14		976.9			3187.2			506
2015	7-Oct-15	15		914.9			3260.1			518.7
2015	7-Oct-15	16		581.1			3384.5			507.8
2015	7-Oct-15	17		619.5			3331.6			388.7
2015	7-Oct-15	18		672.3			3292.4			286.4
2015	7-Oct-15	19		803.1			3440.3			292.3
2015	7-Oct-15	20		514.5			3351.9			297.4
2015	7-Oct-15	21		223.2			2948.4			258.4
2015	7-Oct-15	22		169.2			2551.6			286.6
2015	7-Oct-15	23		158.4			2250			256.8
2015	8-Oct-15	0		123.6			2230.3			256.6
2015	8-Oct-15	1		125.9			2228.7			252.8
2015	8-Oct-15	2		137.2			2232.3			253.2
2015	8-Oct-15	3		282.6			2246.6			254.7
2015	8-Oct-15	4		668.5			2251			386.4
2015	8-Oct-15	5		519.1			2296			604.2
2015	8-Oct-15	6		937.9			2379.2			679.4
2015	8-Oct-15	7		786.3			2325.9			575
2015	8-Oct-15	8		649.8			2413.6			617.3
2015	8-Oct-15	9		806			2612.3			723.6
2015	8-Oct-15	10		1286.5			3122.2			678.5
2015	8-Oct-15	11		1092.6			3057			756.6
2015	8-Oct-15	12		630.5			2979.1			761.7
2015	8-Oct-15	13		494.3			2853.7			765.8
2015	8-Oct-15	14		561.5			3144.4			736.4
2015	8-Oct-15	15		925.8			3248.5			780.7
2015	8-Oct-15	16		823.5			3291.2			708.8
2015	8-Oct-15	17		531			3054.2			569.2
2015	8-Oct-15	18		435.5			2695.7			732.5
2015	8-Oct-15	19		546.2			3021.7			677.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	8-Oct-15	20		370			2837.5			655.6
2015	8-Oct-15	21		161.1			2391.5			539.8
2015	8-Oct-15	22		121.5			2273.7			444.6
2015	8-Oct-15	23		135.5			2287.1			555.4
2015	9-Oct-15	0		161			2272.3			679.9
2015	9-Oct-15	1		132.2			2259.1			478.8
2015	9-Oct-15	2		290.5			2262.8			364.9
2015	9-Oct-15	3		542.6			2261.3			452.3
2015	9-Oct-15	4		627.8			2273.7			529.3
2015	9-Oct-15	5		849.7			2252.3			582.2
2015	9-Oct-15	6		1029.1			2251.3			650
2015	9-Oct-15	7		798.6			2267.4			727.3
2015	9-Oct-15	8		374.4			2261.9			694.1
2015	9-Oct-15	9		265.5			2253.5			749.1
2015	9-Oct-15	10		445.4			2364.1			699.2
2015	9-Oct-15	11		366.7			2303.1			744.6
2015	9-Oct-15	12		269.7			2274.7			730.7
2015	9-Oct-15	13		267.2			2285.4			730.1
2015	9-Oct-15	14		309.2			2387.6			688.2
2015	9-Oct-15	15		446.7			2844.6			555.1
2015	9-Oct-15	16		655.4		0	3243.5			563.8
2015	9-Oct-15	17		401.2		0	3331.6			567
2015	9-Oct-15	18		321.2		0	3213.3			551.1
2015	9-Oct-15	19		323.1		0	3045.3			564.7
2015	9-Oct-15	20		369.2		0	2906			634.4
2015	9-Oct-15	21		277.7		0	2392.3			657.6
2015	9-Oct-15	22		258.1		0	1930.4			547.5
2015	9-Oct-15	23		289.3		0	257.859			595.9
2015	10-Oct-15	0		261.1		0				556.8
2015	10-Oct-15	1		247.9		0				413.1
2015	10-Oct-15	2		237.6		0				359.7
2015	10-Oct-15	3		253.3		0				305.4
2015	10-Oct-15	4		216.3		0				211
2015	10-Oct-15	5		212.7		0				189.5
2015	10-Oct-15	6		241.8		0				194.6
2015	10-Oct-15	7		239.9		0				134.5
2015	10-Oct-15	8		249.6		0.1				118.9
2015	10-Oct-15	9		290.4		0				46.4
2015	10-Oct-15	10		262.3		0				0
2015	10-Oct-15	11		229.4		0				
2015	10-Oct-15	12		270.7		0				
2015	10-Oct-15	13		225.3		0				
2015	10-Oct-15	14		238.4		0				
2015	10-Oct-15	15		294.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	10-Oct-15	16		208.6						
2015	10-Oct-15	17		220.7						
2015	10-Oct-15	18		211.8						
2015	10-Oct-15	19		215						
2015	10-Oct-15	20		253.1						
2015	10-Oct-15	21		208.8						
2015	10-Oct-15	22		221.2						
2015	10-Oct-15	23		215.6						
2015	11-Oct-15	0		243.5						
2015	11-Oct-15	1		210						
2015	11-Oct-15	2		224.6						
2015	11-Oct-15	3		220.5						
2015	11-Oct-15	4		201						
2015	11-Oct-15	5		192.8						
2015	11-Oct-15	6		214.3						
2015	11-Oct-15	7		266.2						
2015	11-Oct-15	8		279.5						
2015	11-Oct-15	9		274		0.7				
2015	11-Oct-15	10		222.1		1.2				
2015	11-Oct-15	11		254.8		0				
2015	11-Oct-15	12		492.2		0.6				
2015	11-Oct-15	13		376.4		1.2				
2015	11-Oct-15	14		450		1.3				
2015	11-Oct-15	15		452.2		1.4				
2015	11-Oct-15	16		485.3		12				
2015	11-Oct-15	17		453.4		6.4				
2015	11-Oct-15	18		463.5		3.3				
2015	11-Oct-15	19		647.2		0.476				
2015	11-Oct-15	20		596						
2015	11-Oct-15	21		597.7						
2015	11-Oct-15	22		528.6						
2015	11-Oct-15	23		479.1						
2015	12-Oct-15	0		400						
2015	12-Oct-15	1		322.3						
2015	12-Oct-15	2		291.3						
2015	12-Oct-15	3		277.3						
2015	12-Oct-15	4		307.2						
2015	12-Oct-15	5		867.6						
2015	12-Oct-15	6		1192.4						
2015	12-Oct-15	7		1262						
2015	12-Oct-15	8		1025.2						
2015	12-Oct-15	9		1074.6						
2015	12-Oct-15	10		1091.5						
2015	12-Oct-15	11		1107.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Oct-15	12		1112.8						
2015	12-Oct-15	13		1157.5						
2015	12-Oct-15	14		935.7						
2015	12-Oct-15	15		977.1						
2015	12-Oct-15	16		991.5						
2015	12-Oct-15	17		681.1						
2015	12-Oct-15	18		806.2						
2015	12-Oct-15	19		881.5						
2015	12-Oct-15	20		891.7						
2015	12-Oct-15	21		781.8						
2015	12-Oct-15	22		442						
2015	12-Oct-15	23		314.6						
2015	13-Oct-15	0		426.2						
2015	13-Oct-15	1		338						
2015	13-Oct-15	2		356.5						
2015	13-Oct-15	3		420.5						
2015	13-Oct-15	4		494.9						
2015	13-Oct-15	5		763.5						
2015	13-Oct-15	6		1176.7						
2015	13-Oct-15	7		1100.8						
2015	13-Oct-15	8		867						
2015	13-Oct-15	9		914.5						
2015	13-Oct-15	10		917						
2015	13-Oct-15	11		887.2						
2015	13-Oct-15	12		912.4						
2015	13-Oct-15	13		832.8						
2015	13-Oct-15	14		884						
2015	13-Oct-15	15		864.8						
2015	13-Oct-15	16		867.9						
2015	13-Oct-15	17		732.9						
2015	13-Oct-15	18		861						
2015	13-Oct-15	19		867.2						
2015	13-Oct-15	20		588.3						
2015	13-Oct-15	21		340.4						
2015	13-Oct-15	22		256.6						
2015	13-Oct-15	23		365.4						
2015	14-Oct-15	0		299.7						
2015	14-Oct-15	1		283.3						
2015	14-Oct-15	2		253.6						
2015	14-Oct-15	3		257.9						
2015	14-Oct-15	4		304.1						
2015	14-Oct-15	5		766.9						
2015	14-Oct-15	6		495.465						
2015	14-Oct-15	7								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	14-Oct-15	8		2.72	0.052					
2015	14-Oct-15	9		29.3	0.08					
2015	14-Oct-15	10		54.2	0.085					
2015	14-Oct-15	11		216.7	0.091					
2015	14-Oct-15	12		372.3	0.089					
2015	14-Oct-15	13		561.2	0.089					
2015	14-Oct-15	14		249.7	0.138					
2015	14-Oct-15	15		0.8	0.245					
2015	14-Oct-15	16		1	0.318					
2015	14-Oct-15	17		1	0.64					
2015	14-Oct-15	18		2.1	0.852					
2015	14-Oct-15	19		12.1	0.861					
2015	14-Oct-15	20		24.3	0.861					
2015	14-Oct-15	21		20.6	0.792					
2015	14-Oct-15	22		34.5	0.388					
2015	14-Oct-15	23		42.5	0.336					
2015	15-Oct-15	0		46.5	0.333					
2015	15-Oct-15	1		23.8	0.328					
2015	15-Oct-15	2		5.5	0.327					
2015	15-Oct-15	3		14.9	0.327					
2015	15-Oct-15	4		37.7	0.463					
2015	15-Oct-15	5		59.9	0.76					
2015	15-Oct-15	6		186.8	0.858					
2015	15-Oct-15	7		354.8	0.857					
2015	15-Oct-15	8		609.6	0.857					
2015	15-Oct-15	9		475.8	0.856					
2015	15-Oct-15	10		409.7	0.856					
2015	15-Oct-15	11		441.3	0.845					
2015	15-Oct-15	12		687.2	0.86					
2015	15-Oct-15	13		808.4	0.855					
2015	15-Oct-15	14		1113.4	0.851					
2015	15-Oct-15	15		1127.5	0.857					
2015	15-Oct-15	16		746.9	0.857					
2015	15-Oct-15	17		797.7	0.848					
2015	15-Oct-15	18		831.9	0.841					
2015	15-Oct-15	19		925.1	0.843					
2015	15-Oct-15	20		719.3	0.841					
2015	15-Oct-15	21		470	0.84					
2015	15-Oct-15	22		338.4	0.838					
2015	15-Oct-15	23		268	0.802					
2015	16-Oct-15	0		249.5	0.556					
2015	16-Oct-15	1		250.9	0.329					
2015	16-Oct-15	2		250.9	0.327					
2015	16-Oct-15	3		256.2	0.327					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	16-Oct-15	4		246	0.361					
2015	16-Oct-15	5		268.6	0.676					
2015	16-Oct-15	6		353.1	0.859					
2015	16-Oct-15	7		473.6	0.859					
2015	16-Oct-15	8		615	0.793					
2015	16-Oct-15	9		825.7	0.483					
2015	16-Oct-15	10		805.6	0.338					
2015	16-Oct-15	11		811.8	0.38					
2015	16-Oct-15	12		836.8	0.346					
2015	16-Oct-15	13		820.4	0.346					
2015	16-Oct-15	14		566.5	0.328					
2015	16-Oct-15	15		537.6	0.329					
2015	16-Oct-15	16		389.8	0.328					
2015	16-Oct-15	17		265.8	0.329					
2015	16-Oct-15	18		301.8	0.381					
2015	16-Oct-15	19		333.5	0.374					
2015	16-Oct-15	20		180.6	0.352					
2015	16-Oct-15	21		127.9	0.331					
2015	16-Oct-15	22		77.5	0.328					
2015	16-Oct-15	23		26.588	0.326					
2015	17-Oct-15	0			0.326					
2015	17-Oct-15	1			0.326					
2015	17-Oct-15	2			0.326					
2015	17-Oct-15	3			0.325					
2015	17-Oct-15	4			0.323					
2015	17-Oct-15	5			0.33					
2015	17-Oct-15	6			0.114					
2015	17-Oct-15	7								
2015	17-Oct-15	8								
2015	17-Oct-15	9								
2015	17-Oct-15	10								
2015	17-Oct-15	11								
2015	17-Oct-15	12								
2015	17-Oct-15	13								
2015	17-Oct-15	14								
2015	17-Oct-15	15								
2015	17-Oct-15	16								
2015	17-Oct-15	17								
2015	17-Oct-15	18								
2015	17-Oct-15	19								
2015	17-Oct-15	20								
2015	17-Oct-15	21								
2015	17-Oct-15	22								
2015	17-Oct-15	23								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	18-Oct-15	0		0						
2015	18-Oct-15	1		0						
2015	18-Oct-15	2		0						
2015	18-Oct-15	3		0						
2015	18-Oct-15	4		4.4						
2015	18-Oct-15	5		1.8						
2015	18-Oct-15	6		3.5		0				
2015	18-Oct-15	7		0.9		0				
2015	18-Oct-15	8		0		0				
2015	18-Oct-15	9		0		0				
2015	18-Oct-15	10		0		0				
2015	18-Oct-15	11		0		0				
2015	18-Oct-15	12		0		0				
2015	18-Oct-15	13		0		0				
2015	18-Oct-15	14		0		0				
2015	18-Oct-15	15		0		0				
2015	18-Oct-15	16		0		0.1				
2015	18-Oct-15	17		0		0.3				
2015	18-Oct-15	18		0		0.5				
2015	18-Oct-15	19		0		0.8				
2015	18-Oct-15	20		41.4		5.1				
2015	18-Oct-15	21		84.8		0.6				
2015	18-Oct-15	22		184.9		0				
2015	18-Oct-15	23		239.8		0				
2015	19-Oct-15	0		439.2		0				
2015	19-Oct-15	1		480.5		0				
2015	19-Oct-15	2		359.7		0				
2015	19-Oct-15	3		453.3		0				
2015	19-Oct-15	4		530.2		0				
2015	19-Oct-15	5		471.1		0				
2015	19-Oct-15	6		700.5		1				
2015	19-Oct-15	7		1013.4		0				
2015	19-Oct-15	8		1151.4		0				
2015	19-Oct-15	9		572.6		0				
2015	19-Oct-15	10		351.6		0.1				
2015	19-Oct-15	11		268.7		0.9				
2015	19-Oct-15	12		226.7		0.6				
2015	19-Oct-15	13		161.7		0.9				
2015	19-Oct-15	14		117.8		0.9				
2015	19-Oct-15	15		92.2		1.2				
2015	19-Oct-15	16		87.3		0				
2015	19-Oct-15	17		195.7		0				
2015	19-Oct-15	18		370.1		0				
2015	19-Oct-15	19		297.4		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	19-Oct-15	20		332.4		0				
2015	19-Oct-15	21		272.1		0				
2015	19-Oct-15	22		261.6		0				
2015	19-Oct-15	23		204.3		0				
2015	20-Oct-15	0		197.2		0				
2015	20-Oct-15	1		179.8		0				
2015	20-Oct-15	2		175		0				
2015	20-Oct-15	3		193.5		0				
2015	20-Oct-15	4		259.7		0				
2015	20-Oct-15	5		499.5		0				
2015	20-Oct-15	6		1002.7		0.9				
2015	20-Oct-15	7		465.2		0				
2015	20-Oct-15	8		357.9		0				
2015	20-Oct-15	9		672.8		0.1				
2015	20-Oct-15	10		448.3		0.4				
2015	20-Oct-15	11		439.4		0.9				
2015	20-Oct-15	12		323.6		8				
2015	20-Oct-15	13		395.5		1				
2015	20-Oct-15	14		287.7		0				
2015	20-Oct-15	15		266.6		0				
2015	20-Oct-15	16		375.5		0				
2015	20-Oct-15	17		267.6		0				
2015	20-Oct-15	18		424.2		0				
2015	20-Oct-15	19		590.5		0				
2015	20-Oct-15	20		414.6		0				
2015	20-Oct-15	21		275.9		0				
2015	20-Oct-15	22		218.2		0				
2015	20-Oct-15	23		120.7		0				
2015	21-Oct-15	0		179.8		0				
2015	21-Oct-15	1		274.2		0				
2015	21-Oct-15	2		267.8						
2015	21-Oct-15	3		242.6						
2015	21-Oct-15	4		285						
2015	21-Oct-15	5		616.3						
2015	21-Oct-15	6		1159.6						
2015	21-Oct-15	7		793.8						
2015	21-Oct-15	8		531.3						
2015	21-Oct-15	9		376.9						
2015	21-Oct-15	10		288.3						
2015	21-Oct-15	11		253.1						
2015	21-Oct-15	12		423.9						
2015	21-Oct-15	13		432.9						
2015	21-Oct-15	14		359.1						
2015	21-Oct-15	15		385						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	21-Oct-15	16		372.3						
2015	21-Oct-15	17		382.2						
2015	21-Oct-15	18		421.8						
2015	21-Oct-15	19		402.2	0.033					
2015	21-Oct-15	20		363.8	0.066					
2015	21-Oct-15	21		279.5	0.067					
2015	21-Oct-15	22		136.3	0.066					
2015	21-Oct-15	23		74.1	0.077					
2015	22-Oct-15	0		72.1	0.088					
2015	22-Oct-15	1		72.1	0.085					
2015	22-Oct-15	2		81.7	0.096					
2015	22-Oct-15	3		100.2	0.209					
2015	22-Oct-15	4		108.5	0.331					
2015	22-Oct-15	5		512.6	0.554					
2015	22-Oct-15	6		523.8	0.742					
2015	22-Oct-15	7		341.7	0.486					
2015	22-Oct-15	8		457.8	0.334					
2015	22-Oct-15	9		425.1	0.329					
2015	22-Oct-15	10		451.5	0.327					
2015	22-Oct-15	11		396.5	0.326					
2015	22-Oct-15	12		394	0.327					
2015	22-Oct-15	13		390.6	0.325					
2015	22-Oct-15	14		385.5	0.329					
2015	22-Oct-15	15		340.3	0.468					
2015	22-Oct-15	16		290.5	0.359					
2015	22-Oct-15	17		280.7	0.327					
2015	22-Oct-15	18		289.4	0.387					
2015	22-Oct-15	19		244.5	0.319					
2015	22-Oct-15	20		150	0.322					
2015	22-Oct-15	21		139.1	0.322					
2015	22-Oct-15	22		159.4	0.323					
2015	22-Oct-15	23		234	0.323					
2015	23-Oct-15	0		304.4	0.323					
2015	23-Oct-15	1		254.2	0.323					
2015	23-Oct-15	2		236.1	0.324					
2015	23-Oct-15	3		243.5	0.491					
2015	23-Oct-15	4		241.8	0.79					
2015	23-Oct-15	5		280.7	0.863					
2015	23-Oct-15	6		525.4	0.861					
2015	23-Oct-15	7		520.9	0.859					
2015	23-Oct-15	8		366.3	0.86					
2015	23-Oct-15	9		350.1	0.857					
2015	23-Oct-15	10		488.8	0.861					
2015	23-Oct-15	11		454.3	0.852					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Oct-15	12		355.9	0.847					
2015	23-Oct-15	13		288.8	0.861					
2015	23-Oct-15	14		304.8	0.86					
2015	23-Oct-15	15		309.4	0.861					
2015	23-Oct-15	16		317.6	0.862					
2015	23-Oct-15	17		264.9	0.862					
2015	23-Oct-15	18		257.3	0.863					
2015	23-Oct-15	19		225.3	0.863					
2015	23-Oct-15	20		224.9	0.761					
2015	23-Oct-15	21		202.9	0.457					
2015	23-Oct-15	22		212.8	0.324					
2015	23-Oct-15	23		189.6	0.324					
2015	24-Oct-15	0		191.6	0.325					
2015	24-Oct-15	1		183.9	0.326					
2015	24-Oct-15	2		148.9	0.335					
2015	24-Oct-15	3		122.3	0.345		0			
2015	24-Oct-15	4		116.1	0.343		0			
2015	24-Oct-15	5		298.5	0.366		0			
2015	24-Oct-15	6		513.6	0.66		0			
2015	24-Oct-15	7		347.2	0.873		0			
2015	24-Oct-15	8		238.6	0.875		0			
2015	24-Oct-15	9		208	0.875		0			
2015	24-Oct-15	10		204	0.875		0			
2015	24-Oct-15	11		205.3	0.876		0			
2015	24-Oct-15	12		237.1	0.876		0			
2015	24-Oct-15	13		277.8	0.876		0			
2015	24-Oct-15	14		272.1	0.878		140.6			
2015	24-Oct-15	15		226.9	0.879		396.1			
2015	24-Oct-15	16		243	0.879		409.8			
2015	24-Oct-15	17		225.5	0.88		319.5			
2015	24-Oct-15	18		236.5	0.879		268.8			
2015	24-Oct-15	19		239.1	0.879		234.2			
2015	24-Oct-15	20		256.5	0.713		266.7			
2015	24-Oct-15	21		258.4	0.392		452.1			
2015	24-Oct-15	22		274.5	0.343		452.7			
2015	24-Oct-15	23		261.7	0.345		457.5			
2015	25-Oct-15	0		274.9	0.345		385.8			
2015	25-Oct-15	1		275.8	0.346		386.3			
2015	25-Oct-15	2		264.8	0.346		339.1			
2015	25-Oct-15	3		259.3	0.346		307.4			
2015	25-Oct-15	4		260.2	0.345		71.3			
2015	25-Oct-15	5		269.3	0.348		1.6			
2015	25-Oct-15	6		472.1	0.346		1.6			
2015	25-Oct-15	7		367.1	0.342		240.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	25-Oct-15	8		255.2	0.342		466.2			
2015	25-Oct-15	9		214.5	0.341		403.8			
2015	25-Oct-15	10		220.5	0.34		398.7			
2015	25-Oct-15	11		239.1	0.34		592.5			
2015	25-Oct-15	12		336.5	0.34		1347.4			
2015	25-Oct-15	13		414.6	0.334		1986.4			
2015	25-Oct-15	14		434.1	0.329		2058			
2015	25-Oct-15	15		457.8	0.327		2113.6			
2015	25-Oct-15	16		443.6	0.329		2208.5			
2015	25-Oct-15	17		359.2	0.331		2346.7			
2015	25-Oct-15	18		331	0.331		2632.1			
2015	25-Oct-15	19		310.3	0.338		3215.1			
2015	25-Oct-15	20		280.3	0.331		3130.9			
2015	25-Oct-15	21		259.7	0.328		2517.4			
2015	25-Oct-15	22		244.4	0.33		2312.9			
2015	25-Oct-15	23		240.5	0.331		2356.2			
2015	26-Oct-15	0		248.6	0.331		2375.9			
2015	26-Oct-15	1		239.8	0.331		2392.2			
2015	26-Oct-15	2		283.5	0.332		2391.8			
2015	26-Oct-15	3		268.3	0.331		2397			
2015	26-Oct-15	4		240.8	0.331		2432.6			
2015	26-Oct-15	5		710	0.333		2437.5			
2015	26-Oct-15	6		533.8	0.368		2929.4			
2015	26-Oct-15	7		366.1	0.344		3483.1			
2015	26-Oct-15	8		219.4	0.362		3744.5			
2015	26-Oct-15	9		212.5	0.333		3640.9			
2015	26-Oct-15	10		179.5	0.33		3381.4			
2015	26-Oct-15	11		209.5	0.33		3088.1			
2015	26-Oct-15	12		230.1	0.328		2955			
2015	26-Oct-15	13		294.5	0.328		2702.7			
2015	26-Oct-15	14		755.5	0.327		2797.4			
2015	26-Oct-15	15		830.5	0.328		2523.9			
2015	26-Oct-15	16		853.1	0.327		2395.6			
2015	26-Oct-15	17		899.6	0.393		2530.6			
2015	26-Oct-15	18		942.1	0.422		3075.6			
2015	26-Oct-15	19		961.3	0.362		3676.6			
2015	26-Oct-15	20		422	0.33		3498.5			
2015	26-Oct-15	21		662.8	0.328		3478.1			
2015	26-Oct-15	22		557.5	0.327		3638.2			
2015	26-Oct-15	23		198.3	0.328		3747.3			
2015	27-Oct-15	0		24.3	0.327		3724.1			
2015	27-Oct-15	1		22.1	0.325		3208.4			
2015	27-Oct-15	2		19.7	0.326		2724.4			
2015	27-Oct-15	3		9.6	0.325		2414.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	27-Oct-15	4			0.34		2463.6			
2015	27-Oct-15	5			0.716		2962.4			
2015	27-Oct-15	6			0.866		3154.8			
2015	27-Oct-15	7			0.852		3572.2			
2015	27-Oct-15	8			0.849		3873.9			
2015	27-Oct-15	9			0.851		3812.6			
2015	27-Oct-15	10			0.85		3863.8			
2015	27-Oct-15	11			0.69		3756			
2015	27-Oct-15	12			0.38		3729.1			
2015	27-Oct-15	13			0.332		3628.3			
2015	27-Oct-15	14			0.324		3299.6			
2015	27-Oct-15	15			0.323		3038.5			
2015	27-Oct-15	16			0.481		3148.8			
2015	27-Oct-15	17			0.792		3244.6			
2015	27-Oct-15	18			0.824		3446.1			
2015	27-Oct-15	19			0.571		3590.6			
2015	27-Oct-15	20			0.334		3373.8			
2015	27-Oct-15	21			0.327		2899			
2015	27-Oct-15	22			0.327		2487.2			
2015	27-Oct-15	23			0.328		2365.6			
2015	28-Oct-15	0			0.334		2370.5			
2015	28-Oct-15	1			0.589		2970			
2015	28-Oct-15	2			0.845		3558.5			
2015	28-Oct-15	3			0.861		3825			
2015	28-Oct-15	4			0.862		3840.9			
2015	28-Oct-15	5			0.86		3822			
2015	28-Oct-15	6			0.86		3836			
2015	28-Oct-15	7			0.86		3850.8			
2015	28-Oct-15	8			0.723		3815.5			
2015	28-Oct-15	9			0.367		3548.5			
2015	28-Oct-15	10			0.321		3131.9			
2015	28-Oct-15	11			0.32		2762.6			
2015	28-Oct-15	12			0.338		2803.6			
2015	28-Oct-15	13			0.323		2992.2			
2015	28-Oct-15	14			0.339		3029.1			
2015	28-Oct-15	15			0.33		2952			
2015	28-Oct-15	16			0.511		3125			
2015	28-Oct-15	17			0.805		2861.9			
2015	28-Oct-15	18			0.787		2914.2			
2015	28-Oct-15	19			0.729		2958.7			
2015	28-Oct-15	20			0.641		2924.5			
2015	28-Oct-15	21			0.331		2654.8			
2015	28-Oct-15	22			0.322		2339.1			
2015	28-Oct-15	23			0.324		2322.4			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	29-Oct-15	0			0.324		2334.5			
2015	29-Oct-15	1			0.324		2327.8			
2015	29-Oct-15	2			0.324		2320.8			
2015	29-Oct-15	3			0.324		2333.4			
2015	29-Oct-15	4			0.324		2337.2			
2015	29-Oct-15	5			0.324		2404			
2015	29-Oct-15	6			0.322		2912.3			
2015	29-Oct-15	7			0.32		3435.2			
2015	29-Oct-15	8			0.323		3633.8			
2015	29-Oct-15	9			0.33		3677.6			
2015	29-Oct-15	10			0.322		3731.2			
2015	29-Oct-15	11			0.324		3683.5			
2015	29-Oct-15	12			0.319		3603.7			
2015	29-Oct-15	13			0.32		3541.5			
2015	29-Oct-15	14			0.317		3558.4			
2015	29-Oct-15	15			0.318		3489.1			
2015	29-Oct-15	16			0.317		3368.6			
2015	29-Oct-15	17			0.329		3547			
2015	29-Oct-15	18			0.321		3668.6			
2015	29-Oct-15	19			0.323		3711.8			
2015	29-Oct-15	20			0.32		3705.1			
2015	29-Oct-15	21			0.318		3272.8			
2015	29-Oct-15	22			0.309		2699.8			
2015	29-Oct-15	23			0.034		2351.2			
2015	30-Oct-15	0					2348.6			
2015	30-Oct-15	1					2350.9			
2015	30-Oct-15	2					2436.3			
2015	30-Oct-15	3					2966			
2015	30-Oct-15	4					3541.3			
2015	30-Oct-15	5					3837.7			
2015	30-Oct-15	6					3906.4			
2015	30-Oct-15	7					3897.7			
2015	30-Oct-15	8					3802.8			
2015	30-Oct-15	9					3547.2			
2015	30-Oct-15	10					3180.1			
2015	30-Oct-15	11					2985			
2015	30-Oct-15	12					2764.2			
2015	30-Oct-15	13					2982.8			
2015	30-Oct-15	14					2728.5			
2015	30-Oct-15	15					2403.3			
2015	30-Oct-15	16					2354.6			
2015	30-Oct-15	17					2360.1			
2015	30-Oct-15	18					2424.4			
2015	30-Oct-15	19					2656.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	30-Oct-15	20					2791.7			
2015	30-Oct-15	21					2837			
2015	30-Oct-15	22					2668.8			
2015	30-Oct-15	23					2403.3			
2015	31-Oct-15	0					2376.2			
2015	31-Oct-15	1				0	2363.7			
2015	31-Oct-15	2				0	2370.5			
2015	31-Oct-15	3				0	2372.8			
2015	31-Oct-15	4				0	2423.2			
2015	31-Oct-15	5				0	2381.6			
2015	31-Oct-15	6				0	2555			
2015	31-Oct-15	7				0	3127.1			
2015	31-Oct-15	8				0	3606.9			
2015	31-Oct-15	9				0	3617.8			
2015	31-Oct-15	10				0	3607.8			
2015	31-Oct-15	11				0	3755.2			
2015	31-Oct-15	12				0	3460.3			
2015	31-Oct-15	13				0	2979.5			
2015	31-Oct-15	14			0.02	0	2499.1			
2015	31-Oct-15	15			0.067	0.7	2361.2			
2015	31-Oct-15	16			0.067	0	2365			
2015	31-Oct-15	17			0.066		2497.2			
2015	31-Oct-15	18			0.003		2727.5			
2015	31-Oct-15	19					2504.7			
2015	31-Oct-15	20					2453.5			
2015	31-Oct-15	21					2497.3			
2015	31-Oct-15	22					2636.4			
2015	31-Oct-15	23					2557			
2015	1-Nov-15	0					2355.6			
2015	1-Nov-15	1					2348.4			
2015	1-Nov-15	2					2351.8			
2015	1-Nov-15	3					2356.6			
2015	1-Nov-15	4					2342.2			
2015	1-Nov-15	5					2336.7			
2015	1-Nov-15	6					2345			
2015	1-Nov-15	7					2489.2			
2015	1-Nov-15	8					2351			
2015	1-Nov-15	9					2336.5			
2015	1-Nov-15	10					2338.4			
2015	1-Nov-15	11					2342.8			
2015	1-Nov-15	12					2344.5			
2015	1-Nov-15	13					2364.2			
2015	1-Nov-15	14					2432.9			
2015	1-Nov-15	15					2359.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Nov-15	16					2355.6			
2015	1-Nov-15	17					2499.6			
2015	1-Nov-15	18					2502.1			
2015	1-Nov-15	19					2572.6			
2015	1-Nov-15	20					2421.5			
2015	1-Nov-15	21					2360.1			
2015	1-Nov-15	22					2466.4			
2015	1-Nov-15	23					2592.9			
2015	2-Nov-15	0					2630.7			
2015	2-Nov-15	1					2395			
2015	2-Nov-15	2					2335.8			
2015	2-Nov-15	3					2339.3			
2015	2-Nov-15	4					2332.3			
2015	2-Nov-15	5					2420.3			
2015	2-Nov-15	6					2901.8			
2015	2-Nov-15	7					3484.8			
2015	2-Nov-15	8					3365.3			
2015	2-Nov-15	9					3579.8			
2015	2-Nov-15	10					3844.7			
2015	2-Nov-15	11					3717.5			
2015	2-Nov-15	12					3376.3			
2015	2-Nov-15	13					3532.9			
2015	2-Nov-15	14					3467.1			
2015	2-Nov-15	15					3288.3			
2015	2-Nov-15	16					2903.9			
2015	2-Nov-15	17					2842.7			
2015	2-Nov-15	18					3317			
2015	2-Nov-15	19					3225.4			
2015	2-Nov-15	20					3104.7			
2015	2-Nov-15	21					3325.3			
2015	2-Nov-15	22					3122.9			
2015	2-Nov-15	23					2882.1			
2015	3-Nov-15	0					2629.2			
2015	3-Nov-15	1					2400			
2015	3-Nov-15	2					2340			
2015	3-Nov-15	3					2344.6			
2015	3-Nov-15	4					2576.2			
2015	3-Nov-15	5					3230.4			
2015	3-Nov-15	6					3708.4			
2015	3-Nov-15	7					3849.1			
2015	3-Nov-15	8					3867			
2015	3-Nov-15	9					3881.1			
2015	3-Nov-15	10					3866.5			
2015	3-Nov-15	11					3869			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	3-Nov-15	12					3894.2			
2015	3-Nov-15	13					3896.2			
2015	3-Nov-15	14					3896.2			
2015	3-Nov-15	15					3896.4			
2015	3-Nov-15	16					3927.3			
2015	3-Nov-15	17					3908.6			
2015	3-Nov-15	18					3902.8			
2015	3-Nov-15	19					3909.2			
2015	3-Nov-15	20					3898.1			
2015	3-Nov-15	21					3913			
2015	3-Nov-15	22					3805.8			
2015	3-Nov-15	23					3419			
2015	4-Nov-15	0					2895.7			
2015	4-Nov-15	1					2384			
2015	4-Nov-15	2					2348.5			
2015	4-Nov-15	3					2362			
2015	4-Nov-15	4					2367.5			
2015	4-Nov-15	5					2412			
2015	4-Nov-15	6					2757			
2015	4-Nov-15	7					3353			
2015	4-Nov-15	8					3824.5			
2015	4-Nov-15	9					3896			
2015	4-Nov-15	10					3873.1			
2015	4-Nov-15	11					3886.9			
2015	4-Nov-15	12					3872.5			
2015	4-Nov-15	13					3882.4			
2015	4-Nov-15	14					3882.5			
2015	4-Nov-15	15					3848.1			
2015	4-Nov-15	16					3643.3			
2015	4-Nov-15	17					3493.3			
2015	4-Nov-15	18					3861.1			
2015	4-Nov-15	19					3917.6			
2015	4-Nov-15	20					3817.7			
2015	4-Nov-15	21					3702.9			
2015	4-Nov-15	22					3846.3			
2015	4-Nov-15	23					3622.1			
2015	5-Nov-15	0					3039.7			
2015	5-Nov-15	1					2500.8			
2015	5-Nov-15	2					2352.5			
2015	5-Nov-15	3					2362			
2015	5-Nov-15	4					2364			
2015	5-Nov-15	5					2421.8			
2015	5-Nov-15	6					2692.8			
2015	5-Nov-15	7					2632.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	5-Nov-15	8					2868.6			
2015	5-Nov-15	9					3329.8			
2015	5-Nov-15	10					3429			
2015	5-Nov-15	11					3556.8			
2015	5-Nov-15	12					3243.1			
2015	5-Nov-15	13					2813.8			
2015	5-Nov-15	14					2844.1			
2015	5-Nov-15	15					2823.7			
2015	5-Nov-15	16					2647.8			
2015	5-Nov-15	17					2704			
2015	5-Nov-15	18					3149.4			
2015	5-Nov-15	19					3349.3			
2015	5-Nov-15	20					3188.5			
2015	5-Nov-15	21					2786.1			
2015	5-Nov-15	22			0.025		2876			
2015	5-Nov-15	23			0.053		2561.7			
2015	6-Nov-15	0			0.047		2277.6			
2015	6-Nov-15	1			0.066		2354.8			
2015	6-Nov-15	2			0.066		2363.6			
2015	6-Nov-15	3			0.071		2357.5			
2015	6-Nov-15	4			0.096		2353.1			
2015	6-Nov-15	5			0.082		2333.7			
2015	6-Nov-15	6			0.135		2374.1			
2015	6-Nov-15	7			0.266		2351			
2015	6-Nov-15	8			0.345		2360.5			
2015	6-Nov-15	9			0.344		2502.4			
2015	6-Nov-15	10			0.345		2522.1			
2015	6-Nov-15	11			0.344		2730.3			
2015	6-Nov-15	12			0.349		3054.3			
2015	6-Nov-15	13			0.343		3428.8			
2015	6-Nov-15	14			0.383		3685.8			
2015	6-Nov-15	15			0.437		3815			
2015	6-Nov-15	16			0.345		3798.5			
2015	6-Nov-15	17			0.439		3855.8			
2015	6-Nov-15	18			0.482		3855			
2015	6-Nov-15	19			0.375		3838.5			
2015	6-Nov-15	20			0.348		3817.7			
2015	6-Nov-15	21			0.138		3649.4			
2015	6-Nov-15	22			0.049		3501			
2015	6-Nov-15	23			0.038		3723.6			
2015	7-Nov-15	0			0.038		3475.6			
2015	7-Nov-15	1			0.038		3072.4			
2015	7-Nov-15	2			0.038		2904			
2015	7-Nov-15	3			0.038		2953.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	7-Nov-15	4			0.038		2611.8			
2015	7-Nov-15	5			0.039		2472.4			
2015	7-Nov-15	6			0.039		2632			
2015	7-Nov-15	7			0.038		2905.8			
2015	7-Nov-15	8			0.038		3382.1			
2015	7-Nov-15	9			0.037		3652.1			
2015	7-Nov-15	10			0.037		3781.1			
2015	7-Nov-15	11			0.038		3828.5			
2015	7-Nov-15	12			0.038		3812.4			
2015	7-Nov-15	13			0.038		3818.3			
2015	7-Nov-15	14			0.037		3801.7			
2015	7-Nov-15	15			0.037		3821.9			
2015	7-Nov-15	16			0.037		3814.1			
2015	7-Nov-15	17			0.037		3803.6			
2015	7-Nov-15	18			0.037		3800.1			
2015	7-Nov-15	19			0.046		3820.7			
2015	7-Nov-15	20			0.037		3828.5			
2015	7-Nov-15	21			0.037		3768.8			
2015	7-Nov-15	22			0.044		3573.1			
2015	7-Nov-15	23			0.037		3165.2			
2015	8-Nov-15	0			0.037		2703.2			
2015	8-Nov-15	1			0.037		2373.6			
2015	8-Nov-15	2			0.039		2320.2			
2015	8-Nov-15	3			0.044		2328.9			
2015	8-Nov-15	4			0.037		2334.2			
2015	8-Nov-15	5			0.037		2321.4			
2015	8-Nov-15	6			0.037		2422.7			
2015	8-Nov-15	7			0.037		2701.3			
2015	8-Nov-15	8			0.037		2637.1			
2015	8-Nov-15	9			0.037		2832.4			
2015	8-Nov-15	10			0.037		3282.3			
2015	8-Nov-15	11			0.037		3576.8			
2015	8-Nov-15	12			0.037		3745.5			
2015	8-Nov-15	13			0.037		3571.9			
2015	8-Nov-15	14			0.037		3395			
2015	8-Nov-15	15			0.037		3157.4			
2015	8-Nov-15	16			0.037		2820.4			
2015	8-Nov-15	17			0.043		2879.5			
2015	8-Nov-15	18			0.052		3675.7			
2015	8-Nov-15	19			0.052		3906.8			
2015	8-Nov-15	20			0.052		3887.1			
2015	8-Nov-15	21			0.052		3857			
2015	8-Nov-15	22			0.052		3658.3			
2015	8-Nov-15	23			0.058		3343.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	9-Nov-15	0			0.066		3236			
2015	9-Nov-15	1			0.066		2734.3			
2015	9-Nov-15	2			0.07		2367.4			
2015	9-Nov-15	3			0.121		2409.9			
2015	9-Nov-15	4			0.272		2358.8			
2015	9-Nov-15	5			0.335		2419.9			
2015	9-Nov-15	6			0.372		2763.7			
2015	9-Nov-15	7			0.342		2963			
2015	9-Nov-15	8			0.328		2801.5			
2015	9-Nov-15	9			0.326		2669			
2015	9-Nov-15	10			0.325		2889.8			
2015	9-Nov-15	11			0.324		3108.4			
2015	9-Nov-15	12			0.323		2949.4			
2015	9-Nov-15	13			0.325		3249.2			
2015	9-Nov-15	14			0.325		3368.1			
2015	9-Nov-15	15			0.327		2997.5			
2015	9-Nov-15	16			0.327		3009.9			
2015	9-Nov-15	17			0.351		3456.3			
2015	9-Nov-15	18			0.39		3696.8			
2015	9-Nov-15	19			0.493		3817.8			
2015	9-Nov-15	20			0.82		3738.3			
2015	9-Nov-15	21			0.872		3682.3			
2015	9-Nov-15	22			0.875		3869.2			
2015	9-Nov-15	23			0.789		3818.2			
2015	10-Nov-15	0			0.477		3466.1			
2015	10-Nov-15	1			0.147		3085.8			
2015	10-Nov-15	2					2793.8			
2015	10-Nov-15	3					2603.1			
2015	10-Nov-15	4					2347			
2015	10-Nov-15	5					2489.6			
2015	10-Nov-15	6					3162			
2015	10-Nov-15	7					3562.4			
2015	10-Nov-15	8					3207.1			
2015	10-Nov-15	9					2678.5			
2015	10-Nov-15	10					2348.6			
2015	10-Nov-15	11					2366.5			
2015	10-Nov-15	12					2392.4			
2015	10-Nov-15	13					2401.3			
2015	10-Nov-15	14					2326.5			
2015	10-Nov-15	15					2335.3			
2015	10-Nov-15	16					2343.2			
2015	10-Nov-15	17					2504.2			
2015	10-Nov-15	18					2646.8			
2015	10-Nov-15	19					2410.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	10-Nov-15	20					2307.8			
2015	10-Nov-15	21					2309.2			
2015	10-Nov-15	22					2382.3			
2015	10-Nov-15	23					2714.6			
2015	11-Nov-15	0					2379.4			
2015	11-Nov-15	1					2309.4			
2015	11-Nov-15	2					2312			
2015	11-Nov-15	3					2308.6			
2015	11-Nov-15	4					2305.9			
2015	11-Nov-15	5					2324.8			
2015	11-Nov-15	6					2383.4			
2015	11-Nov-15	7					2310.9			
2015	11-Nov-15	8					2303.2			
2015	11-Nov-15	9					2292.1			
2015	11-Nov-15	10					2298			
2015	11-Nov-15	11					2297.2			
2015	11-Nov-15	12					2288.4			
2015	11-Nov-15	13					2318			
2015	11-Nov-15	14					2418.5			
2015	11-Nov-15	15					2319.6			
2015	11-Nov-15	16					2305.1			
2015	11-Nov-15	17					2345.7			
2015	11-Nov-15	18					2524.6			
2015	11-Nov-15	19					2694			
2015	11-Nov-15	20					3094.3			
2015	11-Nov-15	21					3326.9			
2015	11-Nov-15	22					2872.4			
2015	11-Nov-15	23					2578.3			
2015	12-Nov-15	0					2336.9			
2015	12-Nov-15	1					2323.1			
2015	12-Nov-15	2					2290.5			
2015	12-Nov-15	3					2289.1			
2015	12-Nov-15	4					2295.3			
2015	12-Nov-15	5					2477.1			
2015	12-Nov-15	6					3053.6			
2015	12-Nov-15	7					3503.9			
2015	12-Nov-15	8					3719.8			
2015	12-Nov-15	9					3738.3			
2015	12-Nov-15	10					3729.3			
2015	12-Nov-15	11					3625.2			
2015	12-Nov-15	12					3374.1			
2015	12-Nov-15	13					2858.4			
2015	12-Nov-15	14					2429.4			
2015	12-Nov-15	15					2241.5			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Nov-15	16					2253.7			
2015	12-Nov-15	17					2388			
2015	12-Nov-15	18					2638			
2015	12-Nov-15	19					2609.7			
2015	12-Nov-15	20					2345.3			
2015	12-Nov-15	21					2260.8			
2015	12-Nov-15	22					2538.9			
2015	12-Nov-15	23					3083			
2015	13-Nov-15	0					3248.4			
2015	13-Nov-15	1					2978.7			
2015	13-Nov-15	2					2568.5			
2015	13-Nov-15	3					2271.2			
2015	13-Nov-15	4					2241.1			
2015	13-Nov-15	5					2300.8			
2015	13-Nov-15	6					2772.1			
2015	13-Nov-15	7					3300.2			
2015	13-Nov-15	8					3183.3			
2015	13-Nov-15	9					2818.9			
2015	13-Nov-15	10					2790.5			
2015	13-Nov-15	11					2797.2			
2015	13-Nov-15	12					3076.5			
2015	13-Nov-15	13					3017.1			
2015	13-Nov-15	14					2950.9			
2015	13-Nov-15	15					2957.5			
2015	13-Nov-15	16					2908.6			
2015	13-Nov-15	17					2756.8			
2015	13-Nov-15	18					3034.4			
2015	13-Nov-15	19					3321.3			
2015	13-Nov-15	20					3490			
2015	13-Nov-15	21					3508.8			
2015	13-Nov-15	22					3507.6			
2015	13-Nov-15	23					3549.1			
2015	14-Nov-15	0					3298.3			
2015	14-Nov-15	1					2965.7			
2015	14-Nov-15	2					2864.2			
2015	14-Nov-15	3					3072			
2015	14-Nov-15	4					3279.2			
2015	14-Nov-15	5					3391.1			
2015	14-Nov-15	6		0			3635.7			
2015	14-Nov-15	7		0			3690.5			
2015	14-Nov-15	8		0			3726.2			
2015	14-Nov-15	9		0			3732.5			
2015	14-Nov-15	10		4.6			3734.8			
2015	14-Nov-15	11		2.8			3667.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	14-Nov-15	12		1			3282.1			
2015	14-Nov-15	13		0.9			3065.1			
2015	14-Nov-15	14		0.9			2769.4			
2015	14-Nov-15	15		0			2358.3			
2015	14-Nov-15	16		0			2396.2			
2015	14-Nov-15	17		0			2311.4			
2015	14-Nov-15	18		0			2296.6			
2015	14-Nov-15	19		0			2300			
2015	14-Nov-15	20		0			2481.7			
2015	14-Nov-15	21		0			2491.4			
2015	14-Nov-15	22		0			2353.5			
2015	14-Nov-15	23		0			2310.2			
2015	15-Nov-15	0		0			2310.4			
2015	15-Nov-15	1		0.9			2306.2			
2015	15-Nov-15	2		1.9			2319.3			
2015	15-Nov-15	3		2.9			2336.6			
2015	15-Nov-15	4		4.3			2307			
2015	15-Nov-15	5		6.8			2287.5			
2015	15-Nov-15	6		9.7			2344.9			
2015	15-Nov-15	7		7.8			2695.8			
2015	15-Nov-15	8		5			3186.2			
2015	15-Nov-15	9		3.9			2944.1			
2015	15-Nov-15	10		8.3			2497.5			
2015	15-Nov-15	11		30.4			2288.6			
2015	15-Nov-15	12		68.5			2301.9			
2015	15-Nov-15	13		172.4			2317			
2015	15-Nov-15	14		241.8			2321.2			
2015	15-Nov-15	15		519.3			2320.9			
2015	15-Nov-15	16		557.8			2326.3			
2015	15-Nov-15	17		373.9			2389.4			
2015	15-Nov-15	18		452.2			2468.8			
2015	15-Nov-15	19		519.4		0	2321.5			
2015	15-Nov-15	20		671.3		0	2323.1			
2015	15-Nov-15	21		677.6		0	2323.8			
2015	15-Nov-15	22		663.8		0	2321.1			
2015	15-Nov-15	23		621.7		0	2320.5			
2015	16-Nov-15	0		568.6		0	2323.9			
2015	16-Nov-15	1		547.2		0	2325.7			
2015	16-Nov-15	2		517.2		0	2324.4			
2015	16-Nov-15	3		480.1		0	2322			
2015	16-Nov-15	4		543.6			2474.6			
2015	16-Nov-15	5		800.5			2782.4			
2015	16-Nov-15	6		816.5			3270.7			
2015	16-Nov-15	7		843.9			3701.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	16-Nov-15	8		620			3720.9			
2015	16-Nov-15	9		691			3778.7			
2015	16-Nov-15	10		496			3791.5			
2015	16-Nov-15	11		580			3819			
2015	16-Nov-15	12		562.3			3820.3			
2015	16-Nov-15	13		436.9			3752.1			
2015	16-Nov-15	14		197.8			3481.4			
2015	16-Nov-15	15		201.6			3143.3			
2015	16-Nov-15	16		344.9			2736.7			
2015	16-Nov-15	17		428.9			2845.8			
2015	16-Nov-15	18		436			3041.4			
2015	16-Nov-15	19		428.4			2841.4			
2015	16-Nov-15	20		453.5			2783.7			
2015	16-Nov-15	21		518.3			2495.5			
2015	16-Nov-15	22		545.4			2289.2			
2015	16-Nov-15	23		604.6			2547			
2015	17-Nov-15	0		600.7			2689.6			
2015	17-Nov-15	1		555.8			2347.8			
2015	17-Nov-15	2		582.9			2321.8			
2015	17-Nov-15	3		666.2			2323.4			
2015	17-Nov-15	4		771			2373.5			
2015	17-Nov-15	5		967.9			2781			
2015	17-Nov-15	6		612.4			3093.8			
2015	17-Nov-15	7		499.5			3098.1			
2015	17-Nov-15	8		389			2771.3			
2015	17-Nov-15	9		324.6			2441.2			
2015	17-Nov-15	10		327.7			2326.3			
2015	17-Nov-15	11		553.6			2728.4			
2015	17-Nov-15	12		472.2			2847.6			
2015	17-Nov-15	13		420.4			2814.3			
2015	17-Nov-15	14		330.2			2694.1			
2015	17-Nov-15	15		308			2540.1			
2015	17-Nov-15	16		508.4			2685.9			
2015	17-Nov-15	17		602.9			2913.9			
2015	17-Nov-15	18		782.9			3313.6			
2015	17-Nov-15	19		1246			3501.7			
2015	17-Nov-15	20		1111.8			3636.6			
2015	17-Nov-15	21		871.1			3462.2			
2015	17-Nov-15	22		495.9			3006.3			
2015	17-Nov-15	23		284			2510.2			
2015	18-Nov-15	0		276.9			2327.4			
2015	18-Nov-15	1		244.4			2349.8			
2015	18-Nov-15	2		257.7			2342.2			
2015	18-Nov-15	3		276			2356.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	18-Nov-15	4		286.2			2412.3			
2015	18-Nov-15	5		836.6			2930.2			
2015	18-Nov-15	6		969.3			3486.1			
2015	18-Nov-15	7		761.4			3796.2			
2015	18-Nov-15	8		636.4			3934.3			
2015	18-Nov-15	9		533.1			3884.1			
2015	18-Nov-15	10		354.6			3765.5			
2015	18-Nov-15	11		335.1			3782.9			
2015	18-Nov-15	12		263.9			3671.4			
2015	18-Nov-15	13		254.4			3684.3			
2015	18-Nov-15	14		193.1			3528			
2015	18-Nov-15	15		363.4			3379.5			
2015	18-Nov-15	16		425.7			3317.4			
2015	18-Nov-15	17		474.4			3431.4			
2015	18-Nov-15	18		839.4			3630.2			
2015	18-Nov-15	19		1306.6			3757			
2015	18-Nov-15	20		1323.2			3946.7			
2015	18-Nov-15	21		1352.4			3874.2			
2015	18-Nov-15	22		830.2			3625.8			
2015	18-Nov-15	23		625.3			3325.8			
2015	19-Nov-15	0		350.5			2923.4			
2015	19-Nov-15	1		275.6			2603.7			
2015	19-Nov-15	2		267			2398			
2015	19-Nov-15	3		266.8			2401.3			
2015	19-Nov-15	4		278.6			2416.4			
2015	19-Nov-15	5		630			2515.1			
2015	19-Nov-15	6		559.8			3117			
2015	19-Nov-15	7		494.6			3590.2			
2015	19-Nov-15	8		502.4			3815.2			
2015	19-Nov-15	9		520.5			3849.6			
2015	19-Nov-15	10		576.5			3888.7			
2015	19-Nov-15	11		606.2			3883.4			
2015	19-Nov-15	12		475.2			3849.8			
2015	19-Nov-15	13		373.4			3831.4			
2015	19-Nov-15	14		255.8			3727.2			
2015	19-Nov-15	15		213.5			3511.4			
2015	19-Nov-15	16		187.7			3299.1			
2015	19-Nov-15	17		132.2			3232.2			
2015	19-Nov-15	18		153.2			3197.9			
2015	19-Nov-15	19		154.1			2857.7			
2015	19-Nov-15	20		166.6			2445.9			
2015	19-Nov-15	21		311.2			2718.3			
2015	19-Nov-15	22		288.1			2650.7			
2015	19-Nov-15	23		136.3			2372.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	20-Nov-15	0		77.5			2312.8			
2015	20-Nov-15	1		203			2294.6			
2015	20-Nov-15	2		170.6			2307.1			
2015	20-Nov-15	3		158.3			2303.5			
2015	20-Nov-15	4		137			2299.4			
2015	20-Nov-15	5		176.8			2741.2			
2015	20-Nov-15	6		415.6			3455.6			
2015	20-Nov-15	7		831.8			3727.4			
2015	20-Nov-15	8		1105.6			3747.6			
2015	20-Nov-15	9		499.4			3677.2			
2015	20-Nov-15	10		335.4			3477.4			
2015	20-Nov-15	11		380.8			3131.5			
2015	20-Nov-15	12		341			2737			
2015	20-Nov-15	13		244.5			2666.3			
2015	20-Nov-15	14		184.3			2648.5			
2015	20-Nov-15	15		174.7			2667.8			
2015	20-Nov-15	16		193.2			2615.8			
2015	20-Nov-15	17		306.5			2641.1			
2015	20-Nov-15	18		945			3192.7			
2015	20-Nov-15	19		1092.6			3551.5			
2015	20-Nov-15	20		714.4			3239.7			
2015	20-Nov-15	21		1281.5			3440.4			
2015	20-Nov-15	22		1144.7			3678.1			
2015	20-Nov-15	23		385.2			3426.9			
2015	21-Nov-15	0		142.8			2978.8			
2015	21-Nov-15	1		140.7			2490.7			
2015	21-Nov-15	2		256.6			2312			
2015	21-Nov-15	3		171.5			2330.7			
2015	21-Nov-15	4		140.2			2330			
2015	21-Nov-15	5		159			2354.4			
2015	21-Nov-15	6		161.2			2710.3			
2015	21-Nov-15	7		203.7			3177.6			
2015	21-Nov-15	8		226.2			3591.1			
2015	21-Nov-15	9		208.5			3438.1			
2015	21-Nov-15	10		207.2			3261.6			
2015	21-Nov-15	11		266.9			2998.9			
2015	21-Nov-15	12		417			3361.1			
2015	21-Nov-15	13		188.8			3162.2			
2015	21-Nov-15	14		167.8			3031.5			
2015	21-Nov-15	15		180.2			2883.8			
2015	21-Nov-15	16		183.2			2690.2			
2015	21-Nov-15	17		179.4			2737.1			
2015	21-Nov-15	18		185.8			2913.3			
2015	21-Nov-15	19		170.8			2808.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	21-Nov-15	20		187			3246.9			
2015	21-Nov-15	21		152.8			3094			
2015	21-Nov-15	22		212.7			2932.9			
2015	21-Nov-15	23		452.9			2775.3			
2015	22-Nov-15	0		406.3			2477.3			
2015	22-Nov-15	1		217.7			2343.4			
2015	22-Nov-15	2		177.8			2343.9			
2015	22-Nov-15	3		174.7			2406.9			
2015	22-Nov-15	4		419			2862.4			
2015	22-Nov-15	5		1308.2			3470.2			
2015	22-Nov-15	6		1544.7			3796			
2015	22-Nov-15	7		674.4			3833.9			
2015	22-Nov-15	8		392.9			3827			
2015	22-Nov-15	9		434.9			3831.6			
2015	22-Nov-15	10		471.3			3811.3			
2015	22-Nov-15	11		428.3			3808.8			
2015	22-Nov-15	12		340.3			3634.8			
2015	22-Nov-15	13		288.5	0.015		3373.5			
2015	22-Nov-15	14		171.7	0.067		2816.9			
2015	22-Nov-15	15		104.5	0.067		2392			
2015	22-Nov-15	16		76.2	0.067		2311.5			
2015	22-Nov-15	17		188.3	0.067		2366.2			
2015	22-Nov-15	18		203.7	0.067		2578.3			
2015	22-Nov-15	19		169.2	0.067		2725.7			
2015	22-Nov-15	20		131.7	0.067		2804.1			
2015	22-Nov-15	21		115.8	0.066		2770.2			
2015	22-Nov-15	22		249.1	0.067		2848.6			
2015	22-Nov-15	23		479.2	0.067		3019.3			
2015	23-Nov-15	0		469.3	0.07		2720.2			
2015	23-Nov-15	1		232.3	0.079		2768.8			
2015	23-Nov-15	2		187.8	0.098		2897.6			
2015	23-Nov-15	3		143.8	0.14		3141.6			
2015	23-Nov-15	4		237.1	0.276		3419			
2015	23-Nov-15	5		635.2	0.454		3678.7			
2015	23-Nov-15	6		453.3	0.723		3689.4			
2015	23-Nov-15	7		395.4	0.855		3695.5			
2015	23-Nov-15	8		393.5	0.88		3681.5			
2015	23-Nov-15	9		347.7	0.801		3627			
2015	23-Nov-15	10		351	0.685		3623.1			
2015	23-Nov-15	11		534.9	0.693		3677.5			
2015	23-Nov-15	12		276.4	0.429		3571.5			
2015	23-Nov-15	13		265.2	0.339		3582.5			
2015	23-Nov-15	14		112.3	0.335		3309.2			
2015	23-Nov-15	15		67.1	0.336		3149.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Nov-15	16		76.6	0.337		3334.2			
2015	23-Nov-15	17		113.9	0.376		3437.3			
2015	23-Nov-15	18		245.7	0.654		3624.5			
2015	23-Nov-15	19		410.7	0.722		3566			
2015	23-Nov-15	20		965.2	0.447		3589.7			
2015	23-Nov-15	21		639.6	0.388		3589.9			
2015	23-Nov-15	22		459.3	0.372		3558.4			
2015	23-Nov-15	23		379.7	0.447		3497			
2015	24-Nov-15	0		548.5	0.767		3609.3			
2015	24-Nov-15	1		467	0.873		3615.4			
2015	24-Nov-15	2		453.1	0.871		3613.7			
2015	24-Nov-15	3		402.6	0.868		3591.3			
2015	24-Nov-15	4		458.5	0.864		3605			
2015	24-Nov-15	5		429.8	0.869		3607.6			
2015	24-Nov-15	6		501	0.87		3602			
2015	24-Nov-15	7		351.6	0.87		3608.6			
2015	24-Nov-15	8		344.7	0.87		3582.8			
2015	24-Nov-15	9		351.4	0.825		3598.6			
2015	24-Nov-15	10		206	0.55		3483.3			
2015	24-Nov-15	11		88.8	0.341		3304.5			
2015	24-Nov-15	12		99.7	0.33		3107			
2015	24-Nov-15	13		137.9	0.329		3012.5			
2015	24-Nov-15	14		141.6	0.328		2772.3			
2015	24-Nov-15	15		256.9	0.493		2905.2			
2015	24-Nov-15	16		806.9	0.767		3498.8			
2015	24-Nov-15	17		491.4	0.873		3634.1			
2015	24-Nov-15	18		326.8	0.766		3576.9			
2015	24-Nov-15	19		125.9	0.424		3367.4			
2015	24-Nov-15	20		95.6	0.338		3020.6			
2015	24-Nov-15	21		152.7	0.337		3031.3			
2015	24-Nov-15	22		163.9	0.336		2801.3			
2015	24-Nov-15	23		177.4	0.336		2568.2			
2015	25-Nov-15	0		170.6	0.207		2279.5			
2015	25-Nov-15	1		162.5	0.079		2245.6			
2015	25-Nov-15	2		138.4	0.074		2249.6			
2015	25-Nov-15	3		131.1	0.071		2258.9			
2015	25-Nov-15	4		141.8	0.068		2251.5			
2015	25-Nov-15	5		351.6	0.069		2126.9			
2015	25-Nov-15	6		532.6	0.069		2266.2			
2015	25-Nov-15	7		311	0.069		2483.7			
2015	25-Nov-15	8		201.4	0.069		2759.7			
2015	25-Nov-15	9		163.8	0.074		2852.3			
2015	25-Nov-15	10		180.8	0.081		2688.3			
2015	25-Nov-15	11		217.1	0.072		2546.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	25-Nov-15	12		259.1	0.069		2303.3			
2015	25-Nov-15	13		244.4	0.08		2270.2			
2015	25-Nov-15	14		255.6	0.07		2265.9			0
2015	25-Nov-15	15		241.6	0.074		2268.4			0
2015	25-Nov-15	16		275.4	0.074		2274.9			0
2015	25-Nov-15	17		249.3	0.069		2268.9			0
2015	25-Nov-15	18		227.3	0.08		2284.4			0
2015	25-Nov-15	19		202.6	0.08		2318.2			0
2015	25-Nov-15	20		200.2	0.08		2383			0
2015	25-Nov-15	21		173.3	0.079		2526.6			
2015	25-Nov-15	22		166.8	0.082		2321.3			
2015	25-Nov-15	23		216.6	0.092		2339.3			
2015	26-Nov-15	0		438.8	0.092		1832.1			
2015	26-Nov-15	1		876.8	0.092		45.144			
2015	26-Nov-15	2		350	0.082					
2015	26-Nov-15	3		186.8	0.081					
2015	26-Nov-15	4		157.8	0.093					
2015	26-Nov-15	5		139.1	0.094					
2015	26-Nov-15	6		203.8	0.085					
2015	26-Nov-15	7		158	0.086					
2015	26-Nov-15	8		134.4	0.09					
2015	26-Nov-15	9		128.8	0.083					
2015	26-Nov-15	10		132.4	0.08					
2015	26-Nov-15	11		144	0.067					
2015	26-Nov-15	12		128.1	0.068					
2015	26-Nov-15	13		136.2	0.068					
2015	26-Nov-15	14		157.5	0.068					
2015	26-Nov-15	15		138.3	0.077					
2015	26-Nov-15	16		158.4	0.075					
2015	26-Nov-15	17		156	0.07					
2015	26-Nov-15	18		161	0.092					
2015	26-Nov-15	19		161.1	0.092					
2015	26-Nov-15	20		148.8	0.092					
2015	26-Nov-15	21		146.4	0.088					
2015	26-Nov-15	22		143.5	0.088					
2015	26-Nov-15	23		137.5	0.075					
2015	27-Nov-15	0		136.7	0.067					
2015	27-Nov-15	1		137.7	0.067					
2015	27-Nov-15	2		139	0.067					
2015	27-Nov-15	3		142.9	0.067					
2015	27-Nov-15	4		146.3	0.067					
2015	27-Nov-15	5		319	0.067					
2015	27-Nov-15	6		220.4	0.067					
2015	27-Nov-15	7		160.5	0.067					



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	27-Nov-15	8		124.5	0.067					
2015	27-Nov-15	9		125.1	0.027					
2015	27-Nov-15	10		147.1						
2015	27-Nov-15	11		145.2						
2015	27-Nov-15	12		143						
2015	27-Nov-15	13		147.8						
2015	27-Nov-15	14		146.8						
2015	27-Nov-15	15		144.6						
2015	27-Nov-15	16		147.4						
2015	27-Nov-15	17		155.1						
2015	27-Nov-15	18		140.9						
2015	27-Nov-15	19		138.2						
2015	27-Nov-15	20		142.5						
2015	27-Nov-15	21		138.2						
2015	27-Nov-15	22		150.1						
2015	27-Nov-15	23		138.9						
2015	28-Nov-15	0		147.3						
2015	28-Nov-15	1		147						
2015	28-Nov-15	2		141.6						
2015	28-Nov-15	3		143.6						
2015	28-Nov-15	4		161.2						
2015	28-Nov-15	5		144.8						
2015	28-Nov-15	6		240.6						
2015	28-Nov-15	7		178.1						
2015	28-Nov-15	8		137.6						
2015	28-Nov-15	9		135.1						
2015	28-Nov-15	10		149.2						
2015	28-Nov-15	11		151.8						
2015	28-Nov-15	12		152.6						
2015	28-Nov-15	13		153.6						
2015	28-Nov-15	14		165.3						
2015	28-Nov-15	15		175.3						
2015	28-Nov-15	16		298.2						
2015	28-Nov-15	17		368						
2015	28-Nov-15	18		438.5						
2015	28-Nov-15	19		476.7						
2015	28-Nov-15	20		671.4						
2015	28-Nov-15	21		695.2						
2015	28-Nov-15	22		422.8						
2015	28-Nov-15	23		280.1						
2015	29-Nov-15	0		225.6						
2015	29-Nov-15	1		209.8						
2015	29-Nov-15	2		192.7						
2015	29-Nov-15	3		190.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	29-Nov-15	4		356.6						
2015	29-Nov-15	5		636.4						
2015	29-Nov-15	6		467.1						
2015	29-Nov-15	7		388.2						
2015	29-Nov-15	8		316.2						
2015	29-Nov-15	9		229						
2015	29-Nov-15	10		252.1						
2015	29-Nov-15	11		239.4						
2015	29-Nov-15	12		455.6	0.019					
2015	29-Nov-15	13		1028.3	0.068					
2015	29-Nov-15	14		741.1	0.069					
2015	29-Nov-15	15		630	0.084					
2015	29-Nov-15	16		643.3	0.088					
2015	29-Nov-15	17		528	0.087		0			
2015	29-Nov-15	18		311.1	0.08		0			
2015	29-Nov-15	19		309.1	0.074		89.8			
2015	29-Nov-15	20		358	0.068		344			
2015	29-Nov-15	21		250.2	0.068		389.8			
2015	29-Nov-15	22		179.7	0.068		289.4			
2015	29-Nov-15	23		177.8	0.079		253.1			
2015	30-Nov-15	0		319.5	0.087		255.8			
2015	30-Nov-15	1		325.2	0.086		254.5			
2015	30-Nov-15	2		209.1	0.086		256.2			
2015	30-Nov-15	3		202.8	0.136		273.9			
2015	30-Nov-15	4		240	0.265		386.4			
2015	30-Nov-15	5		329.3	0.449		509.4			
2015	30-Nov-15	6		1350.3	0.6		703.1			
2015	30-Nov-15	7		963.7	0.783		1292.1			
2015	30-Nov-15	8		983.7	0.784		1817.2			
2015	30-Nov-15	9		988	0.778		2022			
2015	30-Nov-15	10		1017.1	0.821		2478			
2015	30-Nov-15	11		1011.6	0.869		2664.7			
2015	30-Nov-15	12		925.4	0.873		3087.1			
2015	30-Nov-15	13		992.9	0.875		3613.5			
2015	30-Nov-15	14		1017.6	0.873		3815			
2015	30-Nov-15	15		1052.3	0.873		3870.2			
2015	30-Nov-15	16		1077.1	0.881		3859.7			
2015	30-Nov-15	17		1042.7	0.882		3867			
2015	30-Nov-15	18		1069.3	0.881		3847.1			
2015	30-Nov-15	19		1041.5	0.88		3849.7			
2015	30-Nov-15	20		1130.6	0.881		3872.9			
2015	30-Nov-15	21		1047.9	0.882		3887			
2015	30-Nov-15	22		1006.9	0.883		3894.6			
2015	30-Nov-15	23		1109.8	0.882		3878.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	1-Dec-15	0		1166.8	0.882		3896.2			
2015	1-Dec-15	1		1193.4	0.882		3913.9			
2015	1-Dec-15	2		1018.5	0.82		3868.1			
2015	1-Dec-15	3		665.9	0.5		3664.9			
2015	1-Dec-15	4		995	0.634		3779.3			
2015	1-Dec-15	5		1206.3	0.855		3874.1			
2015	1-Dec-15	6		1154.5	0.876		3913.9			
2015	1-Dec-15	7		1170.7	0.877		3920.3			
2015	1-Dec-15	8		1033.1	0.88		3952.2			
2015	1-Dec-15	9		719.3	0.533		3781.5			
2015	1-Dec-15	10		287.6	0.348		3432.6			
2015	1-Dec-15	11		200.3	0.356		3312.8			
2015	1-Dec-15	12		219	0.391		3575.6			
2015	1-Dec-15	13		206	0.348		3442.6			
2015	1-Dec-15	14		163	0.347		3279			
2015	1-Dec-15	15		121.3	0.352		3174.7			
2015	1-Dec-15	16		120.5	0.391		3471.1			
2015	1-Dec-15	17		111.7	0.404		3558			
2015	1-Dec-15	18		152.6	0.512		3819.5			
2015	1-Dec-15	19		185.3	0.443		3950.4			
2015	1-Dec-15	20		190.4	0.35		3853.6			
2015	1-Dec-15	21		201.5	0.349		3844.3			
2015	1-Dec-15	22		155.1	0.345		3716.2			
2015	1-Dec-15	23		122.7	0.343		3414.2			
2015	2-Dec-15	0		230.4	0.344		3042.9			
2015	2-Dec-15	1		365.4	0.343		2823.2			
2015	2-Dec-15	2		688.3	0.342		2402.3			
2015	2-Dec-15	3		449.9	0.343		2522.4			
2015	2-Dec-15	4		305.7	0.343		2618.8			
2015	2-Dec-15	5		276.9	0.342		2793.3			
2015	2-Dec-15	6		537.8	0.468		2985.1			
2015	2-Dec-15	7		858.2	0.604		3651.8			
2015	2-Dec-15	8		966	0.569		3890.4			
2015	2-Dec-15	9		705.6	0.622		3917.4			
2015	2-Dec-15	10		290	0.608		3939.6			
2015	2-Dec-15	11		243.7	0.436		3950.7			
2015	2-Dec-15	12		397.7	0.345		3845.6			
2015	2-Dec-15	13		443	0.344		3888.9			
2015	2-Dec-15	14		414.3	0.343		3746.2			
2015	2-Dec-15	15		327.9	0.343		3341.7			
2015	2-Dec-15	16		337.1	0.396		3576.6			
2015	2-Dec-15	17		376.4	0.411		3668.6			
2015	2-Dec-15	18		666.3	0.537		3911.1			
2015	2-Dec-15	19		1017.5	0.547		3940.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	2-Dec-15	20		620.5	0.416		3912.7			
2015	2-Dec-15	21		431.2	0.344		3857.6			
2015	2-Dec-15	22		412.2	0.383		3829.9			
2015	2-Dec-15	23		302.5	0.352		3741.2			
2015	3-Dec-15	0		255.6	0.34		3331.7			
2015	3-Dec-15	1		213.5	0.342		2990.5			
2015	3-Dec-15	2		252.2	0.366		3246.8			
2015	3-Dec-15	3		229.6	0.362		3369.3			
2015	3-Dec-15	4		247.6	0.339		3325.2			
2015	3-Dec-15	5		322.7	0.348		3417.8			
2015	3-Dec-15	6		484.7	0.578		3839.7			
2015	3-Dec-15	7		772.8	0.707		3909.5			
2015	3-Dec-15	8		697	0.547		3926.2			
2015	3-Dec-15	9		718.5	0.36		3795.2			
2015	3-Dec-15	10		637.2	0.33		3822.2			
2015	3-Dec-15	11		570.9	0.328		3814.4			
2015	3-Dec-15	12		1684.7	0.328		3670.6			
2015	3-Dec-15	13		1875.1	0.328		3827.3			
2015	3-Dec-15	14		1615	0.329		3673.2			
2015	3-Dec-15	15		1441.1	0.331		3697.8			
2015	3-Dec-15	16		1049.1	0.331		3704.9			
2015	3-Dec-15	17		1021.4	0.403		3676.2			
2015	3-Dec-15	18		1056.8	0.527		3938.9			
2015	3-Dec-15	19		1075.4	0.555		3968.4			
2015	3-Dec-15	20		1109.2	0.531		3953.7			
2015	3-Dec-15	21		1199.5	0.361		3839.8			
2015	3-Dec-15	22		1039.1	0.407		3880			
2015	3-Dec-15	23		1041.1	0.377		3899.8			
2015	4-Dec-15	0		1179	0.073		3572.2			
2015	4-Dec-15	1		1009.4			3544.9			
2015	4-Dec-15	2		1116.6			3811.2			
2015	4-Dec-15	3		1061.8			3621.3			
2015	4-Dec-15	4		1166.2			3750.7			
2015	4-Dec-15	5		1067.1			3819.1			
2015	4-Dec-15	6		1251.7			3850.9			
2015	4-Dec-15	7		1159.6			3863.7			
2015	4-Dec-15	8		1060.8			3877.6			
2015	4-Dec-15	9		1185.2			3855.5			
2015	4-Dec-15	10		1132			3831.5			
2015	4-Dec-15	11		1102			3789.1			
2015	4-Dec-15	12		1234.3			3618.1			
2015	4-Dec-15	13		1084.8			3410.3			
2015	4-Dec-15	14		1023.6			3254.9			
2015	4-Dec-15	15		1102.8			2933.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	4-Dec-15	16		1033			2887.8			
2015	4-Dec-15	17		1085.5			3030.6			
2015	4-Dec-15	18		987.9			3344.1			
2015	4-Dec-15	19		853			3478.9			
2015	4-Dec-15	20		1018.7			3730.9			
2015	4-Dec-15	21		959.3			3840.2			
2015	4-Dec-15	22		1025.9			3942.7			
2015	4-Dec-15	23		583.3			3878.1			
2015	5-Dec-15	0		350.5			3814			
2015	5-Dec-15	1		279.6			3674.3			
2015	5-Dec-15	2		199.1			3493.6			
2015	5-Dec-15	3		196.6			3492.9			
2015	5-Dec-15	4		329.2			3706.2			
2015	5-Dec-15	5		396			3399.4			
2015	5-Dec-15	6		842.4			3549.2			
2015	5-Dec-15	7		456.2			3646.4			
2015	5-Dec-15	8		1023.9			3770.5			
2015	5-Dec-15	9		1021.9			3809.8			
2015	5-Dec-15	10		614.7			3735.2			
2015	5-Dec-15	11		362.6			3542			
2015	5-Dec-15	12		314.1			3466.9			
2015	5-Dec-15	13		810.4			3620.5			
2015	5-Dec-15	14		853			3631.5			
2015	5-Dec-15	15		572.1			3533.8			
2015	5-Dec-15	16		412.1			3468.8			
2015	5-Dec-15	17		299.1			3280.5			
2015	5-Dec-15	18		321.2			3528.6			
2015	5-Dec-15	19		1320.9			3761			
2015	5-Dec-15	20		1069.5			3732			
2015	5-Dec-15	21		955.5			3684.9			
2015	5-Dec-15	22		1209.2			3802.8			
2015	5-Dec-15	23		1304.8			3776.6			
2015	6-Dec-15	0		925.1			3611.9			
2015	6-Dec-15	1		627			3130.3			
2015	6-Dec-15	2		536.3			3308.7			
2015	6-Dec-15	3		335.7			3314			
2015	6-Dec-15	4		262			3336.9			
2015	6-Dec-15	5		257			3335.5			
2015	6-Dec-15	6		594.5			3479.8			
2015	6-Dec-15	7		845.6			3655.4			
2015	6-Dec-15	8		1027.9			3742.5			
2015	6-Dec-15	9		910			3706.7			
2015	6-Dec-15	10		793.1			3630.3			
2015	6-Dec-15	11		876.8			3691.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	6-Dec-15	12		825.3			3671.1			
2015	6-Dec-15	13		841.1			3641.1			
2015	6-Dec-15	14		637.5			3575.9			
2015	6-Dec-15	15		531.2			3481.9			
2015	6-Dec-15	16		323.8			3251.6			
2015	6-Dec-15	17		509.5			3271.1			
2015	6-Dec-15	18		572.8			3364.8			
2015	6-Dec-15	19		524			3356.6			
2015	6-Dec-15	20		840	0.044		3523.8			
2015	6-Dec-15	21		1150.2	0.07		3483.4			
2015	6-Dec-15	22		895.7	0.072		3406.9			
2015	6-Dec-15	23		815.4	0.089		3268.6			
2015	7-Dec-15	0		590	0.105		3079.1			
2015	7-Dec-15	1		280.7	0.08		2793.3			
2015	7-Dec-15	2		217.5	0.105		2491.5			
2015	7-Dec-15	3		212.7	0.091		2247.3			
2015	7-Dec-15	4		209.9	0.175		2190.1			
2015	7-Dec-15	5		533.7	0.319		2613.5			
2015	7-Dec-15	6		972.1	0.333		3054.5			
2015	7-Dec-15	7		892.6	0.332		2851.2			
2015	7-Dec-15	8		559.9	0.332		2716.6			
2015	7-Dec-15	9		433.9	0.334		2893.3			
2015	7-Dec-15	10		483.1	0.334		3244.5			
2015	7-Dec-15	11		457.5	0.333		3189			
2015	7-Dec-15	12		466.5	0.335		3207.2			
2015	7-Dec-15	13		315.8	0.335		2965.9			
2015	7-Dec-15	14		226.5	0.335		2667.4			
2015	7-Dec-15	15		191.4	0.335		2336			
2015	7-Dec-15	16		230.2	0.333		2129.6			
2015	7-Dec-15	17		242.8	0.335		2212.6			
2015	7-Dec-15	18		198.5	0.335		2230.6			
2015	7-Dec-15	19		171.5	0.34		2230.5			
2015	7-Dec-15	20		163.3	0.34		2155.4			
2015	7-Dec-15	21		175.6	0.075		2215.9			
2015	7-Dec-15	22		165.4			2209.5			
2015	7-Dec-15	23		152.7			2112.9			
2015	8-Dec-15	0		167.6			2114.3			
2015	8-Dec-15	1		156.2			2099.5			
2015	8-Dec-15	2		154.8			2088.1			
2015	8-Dec-15	3		155.8			2079.2			
2015	8-Dec-15	4		151.6			2093.5			
2015	8-Dec-15	5		152.9			2080.5			
2015	8-Dec-15	6		174.4			2197.5			
2015	8-Dec-15	7		308.7			2462			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	8-Dec-15	8		504.9			2827.9			
2015	8-Dec-15	9		567.6			2977.5			
2015	8-Dec-15	10		334.3			2761.2			
2015	8-Dec-15	11		285.9	0.051		2325			
2015	8-Dec-15	12		251.7	0.068		2105.1			
2015	8-Dec-15	13		218.8	0.075		2137.3			
2015	8-Dec-15	14		230.3	0.081		2140.2			
2015	8-Dec-15	15	0	204.8	0.075		2143.8			
2015	8-Dec-15	16	0	245	0.084		2162.8			
2015	8-Dec-15	17	0	195.5	0.078		2157.9			
2015	8-Dec-15	18	0	191.5	0.068		2134.1			
2015	8-Dec-15	19	0	185.5	0.068		2229.5			
2015	8-Dec-15	20	0	180.7	0.068		2226.2			
2015	8-Dec-15	21	0	177	0.061		2165.7			
2015	8-Dec-15	22	0	172.1	0.054		2114.9			
2015	8-Dec-15	23	0	163.6	0.054		2093.3			
2015	9-Dec-15	0	0	167.2	0.054		2110.8			
2015	9-Dec-15	1	0	162.9	0.054		2122.9			
2015	9-Dec-15	2	0	171.3	0.054		2106.9			
2015	9-Dec-15	3	0	162.5	0.055		2100.6			
2015	9-Dec-15	4	0	165.1	0.058		2126.8			
2015	9-Dec-15	5	0	288.7	0.068		2283.4			
2015	9-Dec-15	6	1.1	507.9	0.068		2796.2			
2015	9-Dec-15	7	0	594.3	0.068		3005			
2015	9-Dec-15	8	0	603.4	0.068		2954.6			
2015	9-Dec-15	9	0	459.3	0.067		2982			
2015	9-Dec-15	10	0	385.6	0.054		3035.6			
2015	9-Dec-15	11	0	427	0.055		3381.9			
2015	9-Dec-15	12	0	408.6	0.055		3453.4			
2015	9-Dec-15	13	0	277.1	0.055		3160.2			
2015	9-Dec-15	14	0	188.5	0.055		2729			
2015	9-Dec-15	15	2.4	155.5	0.068		2337.6			
2015	9-Dec-15	16	9	150.7	0.068		2208.6			
2015	9-Dec-15	17	11.6	145.8	0.068		2249			
2015	9-Dec-15	18	12.8	154.8	0.067		2405.2			
2015	9-Dec-15	19	14.1	271.4	0.074		2333.5			
2015	9-Dec-15	20	15.2	266.3	0.079		2323.9			
2015	9-Dec-15	21	15.2	245.2	0.072		2347.6			
2015	9-Dec-15	22	16.6	203.5	0.067		2220.5			
2015	9-Dec-15	23	23.2	183.6	0.067		2164.8			
2015	10-Dec-15	0	50.2	171.7	0.067		1474.3			
2015	10-Dec-15	1	71.6	171	0.066		2.425			
2015	10-Dec-15	2	109.2	174.7	0.052					
2015	10-Dec-15	3	120.6	165.3	0.059					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	10-Dec-15	4	18.375	216.7	0.066					
2015	10-Dec-15	5	0	595.3	0.066					
2015	10-Dec-15	6	4.1	603.1	0.058					
2015	10-Dec-15	7	0.9	647.7	0.052					
2015	10-Dec-15	8	24.1	384.5	0.052					
2015	10-Dec-15	9	23	369.2	0.052					
2015	10-Dec-15	10	68.8	563.7	0.052					
2015	10-Dec-15	11	98.4	540.8	0.051					
2015	10-Dec-15	12	110.5	453.2	0.076					
2015	10-Dec-15	13	112	371.7	0.078					
2015	10-Dec-15	14	117.1	342.1	0.078					
2015	10-Dec-15	15	111	292.5	0.064					
2015	10-Dec-15	16	124.8	581.1	0.049					
2015	10-Dec-15	17	282.9	806.2	0.046					
2015	10-Dec-15	18	443.5	803.6	0.051					
2015	10-Dec-15	19	493.6	772.8	0.051					
2015	10-Dec-15	20	405.4	801.3	0.051					
2015	10-Dec-15	21	266	754.6	0.051					
2015	10-Dec-15	22	259.2	761.4	0.051					
2015	10-Dec-15	23	277.9	655.8	0.051					
2015	11-Dec-15	0	290	378.6	0.051					
2015	11-Dec-15	1	118.314	292	0.051					
2015	11-Dec-15	2		459.4	0.051					
2015	11-Dec-15	3		422.7	0.051					
2015	11-Dec-15	4		410	0.051					
2015	11-Dec-15	5		606.3	0.051					
2015	11-Dec-15	6		666.4	0.051					
2015	11-Dec-15	7		662.5	0.051					
2015	11-Dec-15	8		660.4	0.034					
2015	11-Dec-15	9		479.5						
2015	11-Dec-15	10		404.7						
2015	11-Dec-15	11		356						
2015	11-Dec-15	12		321.3						
2015	11-Dec-15	13		263.6						
2015	11-Dec-15	14		203.5						
2015	11-Dec-15	15		172.2						
2015	11-Dec-15	16		171.6						
2015	11-Dec-15	17		226.2						
2015	11-Dec-15	18		207.7						
2015	11-Dec-15	19		199.3						
2015	11-Dec-15	20		199.9						
2015	11-Dec-15	21		193.5						
2015	11-Dec-15	22		206						
2015	11-Dec-15	23		209.7						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	12-Dec-15	0		193.1						
2015	12-Dec-15	1		199.6						
2015	12-Dec-15	2		203.9						
2015	12-Dec-15	3		190						
2015	12-Dec-15	4		191.7						
2015	12-Dec-15	5		197						
2015	12-Dec-15	6		199.5						
2015	12-Dec-15	7		206.9						
2015	12-Dec-15	8		176.3						
2015	12-Dec-15	9		200.1						
2015	12-Dec-15	10		264.5						
2015	12-Dec-15	11		252.7						
2015	12-Dec-15	12		256						
2015	12-Dec-15	13		201.8						
2015	12-Dec-15	14		195.8						
2015	12-Dec-15	15		187.9						
2015	12-Dec-15	16		181.4						
2015	12-Dec-15	17		212.6						
2015	12-Dec-15	18		194.7						
2015	12-Dec-15	19		184.5						
2015	12-Dec-15	20		196.9						
2015	12-Dec-15	21		202.1						
2015	12-Dec-15	22		194.4						
2015	12-Dec-15	23		195.7						
2015	13-Dec-15	0		202.1						
2015	13-Dec-15	1		186.2						
2015	13-Dec-15	2		184.3						
2015	13-Dec-15	3		189.9						
2015	13-Dec-15	4		181.5						0
2015	13-Dec-15	5		247.4						0
2015	13-Dec-15	6		213						0
2015	13-Dec-15	7		204.5						0
2015	13-Dec-15	8		184.7						0
2015	13-Dec-15	9		178.7						0
2015	13-Dec-15	10		175.7						0
2015	13-Dec-15	11		178.8						0
2015	13-Dec-15	12		162.5						0
2015	13-Dec-15	13		162.8						0
2015	13-Dec-15	14		171.3						1
2015	13-Dec-15	15		168.4						0
2015	13-Dec-15	16		177.3						0
2015	13-Dec-15	17		214.3						0
2015	13-Dec-15	18		179.3						0
2015	13-Dec-15	19		161.6						0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	13-Dec-15	20		175.6		1.008				0
2015	13-Dec-15	21		175.6		10.9				0
2015	13-Dec-15	22		177.2		5.9				0
2015	13-Dec-15	23		165.3		0				0
2015	14-Dec-15	0		162.2		0				0
2015	14-Dec-15	1		166.2		0				0
2015	14-Dec-15	2		165.4		2.7				0
2015	14-Dec-15	3		168.5		51				0
2015	14-Dec-15	4		168.7		229.5				0
2015	14-Dec-15	5		167.2		362.1				
2015	14-Dec-15	6		170.8		566.8				
2015	14-Dec-15	7		174.4		655.9				
2015	14-Dec-15	8		166.4		717.5				
2015	14-Dec-15	9		166.8		715				
2015	14-Dec-15	10		279		727.1				
2015	14-Dec-15	11		735.7		738.8				
2015	14-Dec-15	12		833.7		720.5				
2015	14-Dec-15	13		773.9		755.8				
2015	14-Dec-15	14		454.3		753				
2015	14-Dec-15	15		350.5		754				
2015	14-Dec-15	16		549.1		748.4				
2015	14-Dec-15	17		716.2		756.4				
2015	14-Dec-15	18		761.9		736.3				
2015	14-Dec-15	19		612.5		776.9				
2015	14-Dec-15	20		629.2		902.6				
2015	14-Dec-15	21		673		919.3				
2015	14-Dec-15	22		659.3		903.5				
2015	14-Dec-15	23		488.7		907.7				
2015	15-Dec-15	0		422.8		902.8				
2015	15-Dec-15	1		306		912.3				
2015	15-Dec-15	2		248.9		894.5				
2015	15-Dec-15	3		223.5		886				
2015	15-Dec-15	4		250.9		893.4				
2015	15-Dec-15	5		582.7		889.7				
2015	15-Dec-15	6		1407.1		877.5				
2015	15-Dec-15	7		1825.4		897.5				
2015	15-Dec-15	8		1758.3		776.1				
2015	15-Dec-15	9		1012.4		714.3				
2015	15-Dec-15	10		850		702.7				
2015	15-Dec-15	11		411.6		641.7				
2015	15-Dec-15	12		302		525.8				
2015	15-Dec-15	13		250		446.8				
2015	15-Dec-15	14		194.6		435.3				
2015	15-Dec-15	15		174.6		451.8				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	15-Dec-15	16		166.4		439.6				
2015	15-Dec-15	17		198.2		413.1				
2015	15-Dec-15	18		179.3		396.2				
2015	15-Dec-15	19		156.4		388.4				
2015	15-Dec-15	20		147.6		390.1				
2015	15-Dec-15	21		128		395				
2015	15-Dec-15	22		116.5		406.1				
2015	15-Dec-15	23		141		399.3				
2015	16-Dec-15	0		105		407.7				
2015	16-Dec-15	1		104.8		404				
2015	16-Dec-15	2		94.1		406.4				
2015	16-Dec-15	3		92.1		399.3				
2015	16-Dec-15	4		82.7		394.8				
2015	16-Dec-15	5		132.1		383.2				
2015	16-Dec-15	6		795.4		380.8				
2015	16-Dec-15	7		1449.8		398				
2015	16-Dec-15	8		1562.8		393.5				
2015	16-Dec-15	9		1580.9		401.2				
2015	16-Dec-15	10		1611		402.6				0
2015	16-Dec-15	11		1563		406.4				0.5
2015	16-Dec-15	12		1554		393.3				0.2
2015	16-Dec-15	13		1563.2		379.8				0
2015	16-Dec-15	14		1482.9		380.9				0
2015	16-Dec-15	15		1545.4		380.1				0.4
2015	16-Dec-15	16		1629		374.2				0.8
2015	16-Dec-15	17		936		250.6				0.4
2015	16-Dec-15	18		351.6		243				0
2015	16-Dec-15	19		241.6		249.2				0
2015	16-Dec-15	20		283.3		367.1				0
2015	16-Dec-15	21		395		364.8				5.8
2015	16-Dec-15	22		301.4		365				336.2
2015	16-Dec-15	23		244		363.3				572.7
2015	17-Dec-15	0		200		367.9				1244.2
2015	17-Dec-15	1		198.8		370.1				1341.2
2015	17-Dec-15	2		204.8		374.2				1513.2
2015	17-Dec-15	3		196.4		374.5				1437.4
2015	17-Dec-15	4		194.9		372				1136.4
2015	17-Dec-15	5		195		365.7				953.2
2015	17-Dec-15	6		221.5		366.1				489.8
2015	17-Dec-15	7		291.3		367.6				675.6
2015	17-Dec-15	8		345.2		364.3				1244.5
2015	17-Dec-15	9		334		365.7				1082.5
2015	17-Dec-15	10		304.3		372.6				1277.8
2015	17-Dec-15	11		246.9		371.2				1844.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	17-Dec-15	12		182.7		376.6				2314.7
2015	17-Dec-15	13		195.9		378.7				2357
2015	17-Dec-15	14		209.5		376.6				2238.2
2015	17-Dec-15	15		191.4		374.2				2548
2015	17-Dec-15	16		178.1		385.4				2684.9
2015	17-Dec-15	17		173.2		393.3				2262
2015	17-Dec-15	18		176		373.7				1383.7
2015	17-Dec-15	19		181		376.9				1277.2
2015	17-Dec-15	20		178.2		374.5				1387.8
2015	17-Dec-15	21		179		375.6				1345.3
2015	17-Dec-15	22		186.7		369.8				1288.5
2015	17-Dec-15	23		183.2		370.8				1252
2015	18-Dec-15	0		175.8		375.8				1265.8
2015	18-Dec-15	1		181.5		373.8				1589.7
2015	18-Dec-15	2		176.7		368.5				1557.4
2015	18-Dec-15	3		188.9		369.2				1281.6
2015	18-Dec-15	4		178		363.5				1094.2
2015	18-Dec-15	5		169.7		362				1091
2015	18-Dec-15	6		190.5		356.4				1405.1
2015	18-Dec-15	7		218.6		359.3				2677
2015	18-Dec-15	8		404.1		359.8				2636.7
2015	18-Dec-15	9		413.4		356.1				2871.2
2015	18-Dec-15	10		369.5		360.2				2870.5
2015	18-Dec-15	11		227.8		360.6				3242.6
2015	18-Dec-15	12		205.6		310.5				3403.6
2015	18-Dec-15	13		200		240.4				3655.8
2015	18-Dec-15	14		205.6		235.1				3490.8
2015	18-Dec-15	15		208.2		220.8				2849.6
2015	18-Dec-15	16		263.5		195.6				1824.7
2015	18-Dec-15	17		253.4		208				1466.5
2015	18-Dec-15	18		333.9		231				1360.4
2015	18-Dec-15	19		254.4		233.2				1888.3
2015	18-Dec-15	20		197.5		222.6				1638.1
2015	18-Dec-15	21		189.6		220				1239.2
2015	18-Dec-15	22		198.5		219.9				1433.5
2015	18-Dec-15	23		192.2		221.7				1431.7
2015	19-Dec-15	0		185.7		236.6				633.3
2015	19-Dec-15	1		174.6		317.7				337.3
2015	19-Dec-15	2		180.3		331.4				275.8
2015	19-Dec-15	3		174.9		333.6				48.107
2015	19-Dec-15	4		169.9		331				
2015	19-Dec-15	5		240.8		330.2				
2015	19-Dec-15	6		261		335.8				
2015	19-Dec-15	7		520.6		332.4				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	19-Dec-15	8		1339.9		328.9				
2015	19-Dec-15	9		1142.6		326.5				
2015	19-Dec-15	10		863.3		327.2				
2015	19-Dec-15	11		595.1		313.2				
2015	19-Dec-15	12		408.6		281.1				
2015	19-Dec-15	13		264.5		272.9				
2015	19-Dec-15	14		268		242.3				
2015	19-Dec-15	15		277.1		251.1				
2015	19-Dec-15	16		222		243.6				
2015	19-Dec-15	17		245.2		230.9				
2015	19-Dec-15	18		247.4		233.2				
2015	19-Dec-15	19		247.2		227.5				
2015	19-Dec-15	20		262.8		233.3				
2015	19-Dec-15	21		264.1		235.5				
2015	19-Dec-15	22		248.5		233.9				
2015	19-Dec-15	23		220.1		229.6				
2015	20-Dec-15	0		213.3		233.4				
2015	20-Dec-15	1		226.1		234.5				
2015	20-Dec-15	2		222.8		237.2				
2015	20-Dec-15	3		188.8		231				
2015	20-Dec-15	4		178		236.6				
2015	20-Dec-15	5		185.8		237.4				
2015	20-Dec-15	6		469.4		239.1				
2015	20-Dec-15	7		561.4		239.2				
2015	20-Dec-15	8		360.6		240.7				
2015	20-Dec-15	9		244.4		244.3				
2015	20-Dec-15	10		205		246.9				
2015	20-Dec-15	11		178.3		249				
2015	20-Dec-15	12		195		253.3				
2015	20-Dec-15	13		187.8		254.2				
2015	20-Dec-15	14		179.9		262				
2015	20-Dec-15	15		168.3		264.4				
2015	20-Dec-15	16		165.2		268.6				
2015	20-Dec-15	17		165.6		257.1				
2015	20-Dec-15	18		167.3		265.8				
2015	20-Dec-15	19		162.9		266.2				
2015	20-Dec-15	20		187.9		266.9				
2015	20-Dec-15	21		175.4		268				
2015	20-Dec-15	22		164.8		266.6				
2015	20-Dec-15	23		163.7		272				
2015	21-Dec-15	0		170.1		268.4				
2015	21-Dec-15	1		166.6		268				
2015	21-Dec-15	2		169.6		266.5				
2015	21-Dec-15	3		164.2		264.1				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	21-Dec-15	4		162.6		264.9				
2015	21-Dec-15	5		316.8		268				
2015	21-Dec-15	6		714.4		270.1				
2015	21-Dec-15	7		491.4		270.9				
2015	21-Dec-15	8		365.8		271.7				
2015	21-Dec-15	9		289.8		277				
2015	21-Dec-15	10		384		274.4				
2015	21-Dec-15	11		310.1		275.4				
2015	21-Dec-15	12		240.2		277				
2015	21-Dec-15	13		223.8		279.9				
2015	21-Dec-15	14		200.5		286.5				
2015	21-Dec-15	15		233.7		293.8				
2015	21-Dec-15	16		480.1		292.7				
2015	21-Dec-15	17		421		301.9				
2015	21-Dec-15	18		302.3		304.4				
2015	21-Dec-15	19		264.2		303.7				
2015	21-Dec-15	20		227.3		308				
2015	21-Dec-15	21		206.9		307.3				
2015	21-Dec-15	22		185.2		305.7				
2015	21-Dec-15	23		177.7		303.7				
2015	22-Dec-15	0		169.9		305.4				
2015	22-Dec-15	1		176.4		305.1				
2015	22-Dec-15	2		170.7		307.1				
2015	22-Dec-15	3		171.5		304.7				
2015	22-Dec-15	4		171.8		297.2				
2015	22-Dec-15	5		169.9		299.9				
2015	22-Dec-15	6		199.6		327.1				
2015	22-Dec-15	7		196.9		357.1				
2015	22-Dec-15	8		236.5		348				
2015	22-Dec-15	9		244		348.4				
2015	22-Dec-15	10		224.1		355.5				
2015	22-Dec-15	11		194.5		358.9				
2015	22-Dec-15	12		209.5		348.4				
2015	22-Dec-15	13		196.3		263.4				
2015	22-Dec-15	14		177.7		276				
2015	22-Dec-15	15		182.2		287.5				
2015	22-Dec-15	16		179.3		295.6				
2015	22-Dec-15	17		185		309.7				
2015	22-Dec-15	18		225.7		324.7				
2015	22-Dec-15	19		180.1		285.4				
2015	22-Dec-15	20		181.2		276.2				
2015	22-Dec-15	21		187		218.9				
2015	22-Dec-15	22		223.2		111.1				
2015	22-Dec-15	23		183.5		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	23-Dec-15	0		183.1						
2015	23-Dec-15	1		188.6						
2015	23-Dec-15	2		184.8						
2015	23-Dec-15	3		187.1						
2015	23-Dec-15	4		201.5						
2015	23-Dec-15	5		246.8						
2015	23-Dec-15	6		381.7						
2015	23-Dec-15	7		667.3						
2015	23-Dec-15	8		514.3						
2015	23-Dec-15	9		283.9						
2015	23-Dec-15	10		226.3						
2015	23-Dec-15	11		353.3						
2015	23-Dec-15	12		308.5						
2015	23-Dec-15	13		255.3						
2015	23-Dec-15	14		171.6						
2015	23-Dec-15	15		170.8						
2015	23-Dec-15	16		193.4						
2015	23-Dec-15	17		183.5						
2015	23-Dec-15	18		179.8						
2015	23-Dec-15	19		191.9						
2015	23-Dec-15	20		224.2						
2015	23-Dec-15	21		234						
2015	23-Dec-15	22		283.4						
2015	23-Dec-15	23		289.7						
2015	24-Dec-15	0		282						
2015	24-Dec-15	1		206.1						
2015	24-Dec-15	2		205.8						
2015	24-Dec-15	3		207.3						
2015	24-Dec-15	4		203.6						
2015	24-Dec-15	5		198.8						
2015	24-Dec-15	6		296.7						
2015	24-Dec-15	7		349.7						
2015	24-Dec-15	8		273.5						
2015	24-Dec-15	9		236						
2015	24-Dec-15	10		258.3						
2015	24-Dec-15	11		206.6						
2015	24-Dec-15	12		231.3						
2015	24-Dec-15	13		250.7						
2015	24-Dec-15	14		330.2						
2015	24-Dec-15	15		450.8						
2015	24-Dec-15	16		474.4						
2015	24-Dec-15	17		490.6						
2015	24-Dec-15	18		486.6						
2015	24-Dec-15	19		368.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	24-Dec-15	20		317.3						
2015	24-Dec-15	21		303.5						
2015	24-Dec-15	22		308.6						
2015	24-Dec-15	23		225.8						
2015	25-Dec-15	0		193.5						
2015	25-Dec-15	1		189.5						
2015	25-Dec-15	2		197.3						
2015	25-Dec-15	3		198.2						
2015	25-Dec-15	4		202.1						
2015	25-Dec-15	5		251.6						
2015	25-Dec-15	6		232.7						
2015	25-Dec-15	7		219.5						
2015	25-Dec-15	8		192.5						
2015	25-Dec-15	9		187.6						
2015	25-Dec-15	10		185.8						
2015	25-Dec-15	11		184.9						
2015	25-Dec-15	12		194.5						
2015	25-Dec-15	13		186						
2015	25-Dec-15	14		193.7						
2015	25-Dec-15	15		208						
2015	25-Dec-15	16		205.1						
2015	25-Dec-15	17		191.6						
2015	25-Dec-15	18		189						
2015	25-Dec-15	19		193.2						
2015	25-Dec-15	20		196.7						
2015	25-Dec-15	21		201.3						
2015	25-Dec-15	22		203.4						
2015	25-Dec-15	23		204.9						
2015	26-Dec-15	0		212.7						
2015	26-Dec-15	1		241.8						
2015	26-Dec-15	2		207.6						
2015	26-Dec-15	3		200						
2015	26-Dec-15	4		193.2						
2015	26-Dec-15	5		196.7						
2015	26-Dec-15	6		214.2						
2015	26-Dec-15	7		214.9						
2015	26-Dec-15	8		183.3						
2015	26-Dec-15	9		178.8						
2015	26-Dec-15	10		186.1						
2015	26-Dec-15	11		182.2						
2015	26-Dec-15	12		185.9						
2015	26-Dec-15	13		174.9						
2015	26-Dec-15	14		179.4						
2015	26-Dec-15	15		218.7						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	26-Dec-15	16		228.2						
2015	26-Dec-15	17		466.6						
2015	26-Dec-15	18		993.4						
2015	26-Dec-15	19		874.3						
2015	26-Dec-15	20		473.1						
2015	26-Dec-15	21		284.6						
2015	26-Dec-15	22		224.3						
2015	26-Dec-15	23		212.9						
2015	27-Dec-15	0		224						
2015	27-Dec-15	1		202.4						
2015	27-Dec-15	2		187.8						
2015	27-Dec-15	3		188						
2015	27-Dec-15	4		188.5						
2015	27-Dec-15	5		248.6						
2015	27-Dec-15	6		218.2						
2015	27-Dec-15	7		204.7						
2015	27-Dec-15	8		180.1						
2015	27-Dec-15	9		174.9						
2015	27-Dec-15	10		189.4						
2015	27-Dec-15	11		197.8						
2015	27-Dec-15	12		190.6						
2015	27-Dec-15	13		189.9						
2015	27-Dec-15	14		195.6						
2015	27-Dec-15	15		191						
2015	27-Dec-15	16		189.2						
2015	27-Dec-15	17		192.8						
2015	27-Dec-15	18		187.7						
2015	27-Dec-15	19		189.2						
2015	27-Dec-15	20		189.3						
2015	27-Dec-15	21		204.9						
2015	27-Dec-15	22		186.4						
2015	27-Dec-15	23		183.6						
2015	28-Dec-15	0		175.4						
2015	28-Dec-15	1		185.8						
2015	28-Dec-15	2		181.6						
2015	28-Dec-15	3		176.2						
2015	28-Dec-15	4		257.7						
2015	28-Dec-15	5		557.3						
2015	28-Dec-15	6		1432.7						
2015	28-Dec-15	7		1777.5						
2015	28-Dec-15	8		832.8						
2015	28-Dec-15	9		787.8						
2015	28-Dec-15	10		830.6						
2015	28-Dec-15	11		752.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	28-Dec-15	12		738						
2015	28-Dec-15	13		606.7						
2015	28-Dec-15	14		421.6						
2015	28-Dec-15	15		235.8						
2015	28-Dec-15	16		341.9						
2015	28-Dec-15	17		332.9						
2015	28-Dec-15	18		351.7						
2015	28-Dec-15	19		295.5						
2015	28-Dec-15	20		284.6						
2015	28-Dec-15	21		325.9						
2015	28-Dec-15	22		265.7						
2015	28-Dec-15	23		274.8						
2015	29-Dec-15	0		207.6						
2015	29-Dec-15	1		179.5						
2015	29-Dec-15	2		215.3						
2015	29-Dec-15	3		169.9						
2015	29-Dec-15	4		177.4						
2015	29-Dec-15	5		618.5						
2015	29-Dec-15	6		878.6						
2015	29-Dec-15	7		824.6						
2015	29-Dec-15	8		545.6						
2015	29-Dec-15	9		384.6						
2015	29-Dec-15	10		320.1						
2015	29-Dec-15	11		312.8						
2015	29-Dec-15	12		323.1						
2015	29-Dec-15	13		316.8						
2015	29-Dec-15	14		311.3						
2015	29-Dec-15	15		340.3						
2015	29-Dec-15	16		322.3						
2015	29-Dec-15	17		349.9						
2015	29-Dec-15	18		343.1						
2015	29-Dec-15	19		324.1						
2015	29-Dec-15	20		319.7						
2015	29-Dec-15	21		335.5						
2015	29-Dec-15	22		264.3						
2015	29-Dec-15	23		206.2						
2015	30-Dec-15	0		215.7						
2015	30-Dec-15	1		240.9						
2015	30-Dec-15	2		213.1						
2015	30-Dec-15	3		213.6						
2015	30-Dec-15	4		219						
2015	30-Dec-15	5		205.2						
2015	30-Dec-15	6		231.6						
2015	30-Dec-15	7		319.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2015	30-Dec-15	8		287.8						
2015	30-Dec-15	9		211.8						
2015	30-Dec-15	10		128.3						
2015	30-Dec-15	11		170.5						
2015	30-Dec-15	12		185.9						
2015	30-Dec-15	13		186.8						
2015	30-Dec-15	14		182.5						
2015	30-Dec-15	15		164.5						
2015	30-Dec-15	16		170						
2015	30-Dec-15	17		179.5						
2015	30-Dec-15	18		192.5						
2015	30-Dec-15	19		185.2						
2015	30-Dec-15	20		177.1						
2015	30-Dec-15	21		174.4						
2015	30-Dec-15	22		171.8						
2015	30-Dec-15	23		167.3						
2015	31-Dec-15	0		176.1						
2015	31-Dec-15	1		170.7						
2015	31-Dec-15	2		175.2						
2015	31-Dec-15	3		180.2						
2015	31-Dec-15	4		189.5						
2015	31-Dec-15	5		531.1						
2015	31-Dec-15	6		730.3						
2015	31-Dec-15	7		735.5						
2015	31-Dec-15	8		830						
2015	31-Dec-15	9		811.2						
2015	31-Dec-15	10		472.8						
2015	31-Dec-15	11		298.4						
2015	31-Dec-15	12		265.9						
2015	31-Dec-15	13		226.6						
2015	31-Dec-15	14		226.3						
2015	31-Dec-15	15		235.3						
2015	31-Dec-15	16		211.5						
2015	31-Dec-15	17		284.8						
2015	31-Dec-15	18		339.6						
2015	31-Dec-15	19		295.3						
2015	31-Dec-15	20		216.2						
2015	31-Dec-15	21		183.2						
2015	31-Dec-15	22		177.8						
2015	31-Dec-15	23		173.6						
2016	1-Jan-16	0		175.2						
2016	1-Jan-16	1		177	0.061					
2016	1-Jan-16	2		175.9	0.067					
2016	1-Jan-16	3		175.7	0.067					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-Jan-16	4		184.1	0.067					
2016	1-Jan-16	5		177.7	0.067					
2016	1-Jan-16	6		577.8	0.059					
2016	1-Jan-16	7		872.1	0.06					
2016	1-Jan-16	8		733.8	0.067					
2016	1-Jan-16	9		793.3	0.067					
2016	1-Jan-16	10		818.3	0.067					
2016	1-Jan-16	11		558.4	0.067					
2016	1-Jan-16	12		297.7	0.067					
2016	1-Jan-16	13		271.8	0.067					
2016	1-Jan-16	14		191.9	0.067					
2016	1-Jan-16	15		309.4	0.064					
2016	1-Jan-16	16		259.5	0.052					
2016	1-Jan-16	17		236	0.066					
2016	1-Jan-16	18		312.2	0.06					
2016	1-Jan-16	19		311.7	0.064					
2016	1-Jan-16	20		310.2	0.053					
2016	1-Jan-16	21		317	0.066					
2016	1-Jan-16	22		267.1	0.055					
2016	1-Jan-16	23		195.5	0.067					
2016	2-Jan-16	0		219.1	0.053					
2016	2-Jan-16	1		407.2	0.067					
2016	2-Jan-16	2		416.9	0.056					
2016	2-Jan-16	3		407.6	0.064					
2016	2-Jan-16	4		407.8	0.067					
2016	2-Jan-16	5		524.7	0.067					
2016	2-Jan-16	6		543	0.066					
2016	2-Jan-16	7		678.3	0.054					
2016	2-Jan-16	8		751.4	0.067					
2016	2-Jan-16	9		815.9	0.067					
2016	2-Jan-16	10		684.4	0.067					
2016	2-Jan-16	11		640.7	0.067					
2016	2-Jan-16	12		564.2	0.067					
2016	2-Jan-16	13		420.6	0.067					
2016	2-Jan-16	14		354.9	0.067					
2016	2-Jan-16	15		358	0.067					
2016	2-Jan-16	16		407	0.067					
2016	2-Jan-16	17		405.9	0.067					
2016	2-Jan-16	18		411.3	0.067					
2016	2-Jan-16	19		388.9	0.067					
2016	2-Jan-16	20		400.6	0.067					
2016	2-Jan-16	21		458	0.067					
2016	2-Jan-16	22		347.1	0.067					
2016	2-Jan-16	23		362.9	0.072					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	3-Jan-16	0		378.7	0.073					
2016	3-Jan-16	1		385.2	0.067					
2016	3-Jan-16	2		386.4	0.076					
2016	3-Jan-16	3		374.2	0.086					
2016	3-Jan-16	4		367.5	0.08					
2016	3-Jan-16	5		379.7	0.088					
2016	3-Jan-16	6		432	0.087					
2016	3-Jan-16	7		541	0.087					
2016	3-Jan-16	8		671.1	0.087					
2016	3-Jan-16	9		737	0.087					
2016	3-Jan-16	10		524.6	0.087					
2016	3-Jan-16	11		536.1	0.087					
2016	3-Jan-16	12		407.7	0.087		37.44			
2016	3-Jan-16	13		330.9	0.087		282.2			
2016	3-Jan-16	14		260.8	0.088		412.6			
2016	3-Jan-16	15		232.4	0.087		397.2			
2016	3-Jan-16	16		199.8	0.087		219.3			
2016	3-Jan-16	17		183.9	0.087		224.7			
2016	3-Jan-16	18		175.4	0.087		291.1			
2016	3-Jan-16	19		240.5	0.087		301.4			
2016	3-Jan-16	20		355.2	0.087		465.2			
2016	3-Jan-16	21		402.8	0.087		847.2			
2016	3-Jan-16	22		335.6	0.079		1784.3			
2016	3-Jan-16	23		278.2	0.06		2002.8			
2016	4-Jan-16	0		263.8	0.046		2191.2			
2016	4-Jan-16	1		219.2	0.076		2299.4			
2016	4-Jan-16	2		199	0.086		2365.3			
2016	4-Jan-16	3		178.5	0.084		2487.8			
2016	4-Jan-16	4		176.6	0.066		2719.2			
2016	4-Jan-16	5		533.7	0.066		3165.6			
2016	4-Jan-16	6		540	0.066		3589.7			
2016	4-Jan-16	7		600.1	0.066		3400.7			
2016	4-Jan-16	8		515.5	0.066		3218.4			
2016	4-Jan-16	9		546.1	0.067		3660.2			
2016	4-Jan-16	10		737.1	0.067		3779			
2016	4-Jan-16	11		566.5	0.067		3614.7			
2016	4-Jan-16	12		541.9	0.067		3702.4			
2016	4-Jan-16	13		744.1	0.067		3825.1		1.012	
2016	4-Jan-16	14		737.4	0.071		3595.8		0	
2016	4-Jan-16	15		916.8	0.079		3223.4		0	
2016	4-Jan-16	16		879	0.077		3599.5		0	
2016	4-Jan-16	17		332.3	0.073		3818.1		0.2	
2016	4-Jan-16	18		395.9	0.078		3942.8		1.6	
2016	4-Jan-16	19		581.6	0.079		3957.7		4.7	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	4-Jan-16	20		672.3	0.079		3943.8		9.2	
2016	4-Jan-16	21		670.4	0.079		3941.8		14.3	
2016	4-Jan-16	22		615.5	0.079		3828.3		18.1	
2016	4-Jan-16	23		484.5	0.079		3781.2		23.1	
2016	5-Jan-16	0		509.3	0.079		3743.9		23.4	
2016	5-Jan-16	1		499.1	0.079		3795.8		30.3	
2016	5-Jan-16	2		454.8	0.079		3764.3		27.9	
2016	5-Jan-16	3		516.6	0.079		3883.6		28.5	
2016	5-Jan-16	4		518.7	0.079		3842.7		34.9	
2016	5-Jan-16	5		398.3	0.079		3862.4		34.9	
2016	5-Jan-16	6		435.1	0.079		3862.6		43.5	
2016	5-Jan-16	7		389.5	0.079		3851.3		66.9	
2016	5-Jan-16	8		207.5	0.08		3858.1		62.6	
2016	5-Jan-16	9		176.8	0.08	0	3893		84.4	
2016	5-Jan-16	10		219.5	0.08	0	3877.4		136.7	
2016	5-Jan-16	11		329.5	0.08	0	3873		264.2	
2016	5-Jan-16	12		334.7	0.073	0	3849.6		337.6	
2016	5-Jan-16	13		294.8	0.006	0	3853.6		387.8	
2016	5-Jan-16	14		269.3		0	3827.9		400	
2016	5-Jan-16	15		225		0	3625.5		407.9	
2016	5-Jan-16	16		233.7		0	3602		473.8	
2016	5-Jan-16	17		235.5		0	3812		395.9	
2016	5-Jan-16	18		335.4		0	3960.6		367.8	
2016	5-Jan-16	19		289.7		0	3960		375.9	
2016	5-Jan-16	20		272.1		0	3953.6		368.8	
2016	5-Jan-16	21		214.4		0	3923		384.7	
2016	5-Jan-16	22		142.4		0	3766.7		381.4	
2016	5-Jan-16	23		154.2		0	3882.4		355	
2016	6-Jan-16	0		142.6		0	3817.8		314.9	
2016	6-Jan-16	1		134.9		0	3768.6		1.17	
2016	6-Jan-16	2		167.4		0	3885.9			
2016	6-Jan-16	3		207.6		63.5	3960.6			
2016	6-Jan-16	4		310.3		362.9	3990.9			
2016	6-Jan-16	5		977.8		404.1	4020.5			
2016	6-Jan-16	6		771.4		513.6	4025.8			
2016	6-Jan-16	7		708.6		576.8	4019.2			
2016	6-Jan-16	8		674.3		617.7	4014.4			
2016	6-Jan-16	9		635.4		664.5	4007.8			
2016	6-Jan-16	10		579.7		790	3924.3			
2016	6-Jan-16	11		385.5		954.8	3585.3			
2016	6-Jan-16	12		249.5		1022.9	3053.8			
2016	6-Jan-16	13		151.6		1019.6	2702			
2016	6-Jan-16	14		113.7		1055.8	2447.7	0.027		
2016	6-Jan-16	15		113.7		1046.6	2466.8	0.12		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-Jan-16	16		99.2		1071.5	2484.1	0.125		
2016	6-Jan-16	17		89		1048	2697.3	0.114		
2016	6-Jan-16	18		69.3		1044.5	2936.6	0.049		
2016	6-Jan-16	19		69.7		519.3	3026.4	0.031		
2016	6-Jan-16	20		76.8		26.312	3433.8	0.031		
2016	6-Jan-16	21		137.3			3582.5	0.031		
2016	6-Jan-16	22		154.6			3460.4	0.031		
2016	6-Jan-16	23		130.1			2972.1	0.031		
2016	7-Jan-16	0		163.4			2570.6	50.231		
2016	7-Jan-16	1		252.1			2461.3	410.231		
2016	7-Jan-16	2		410			2467.5	800.108		
2016	7-Jan-16	3		374.5			2475.7	1048.1		
2016	7-Jan-16	4		334.7			2478.8	1291.3		
2016	7-Jan-16	5		318.9			2490.6	1807.8		
2016	7-Jan-16	6		364.5			2485.9	2396.6		
2016	7-Jan-16	7		361.4			2742.3	2413.3		
2016	7-Jan-16	8		301.8			2526.8	2793.9		
2016	7-Jan-16	9		295			2651.1	2808		
2016	7-Jan-16	10		295.8			2745.7	2802.4		
2016	7-Jan-16	11		305.1			2535.5	2801.5		
2016	7-Jan-16	12		299.3			2656.8	1565.9		
2016	7-Jan-16	13		271			2779.5	702.7		
2016	7-Jan-16	14		275.3			2585.8	229.75		
2016	7-Jan-16	15		301.9			2789.1			
2016	7-Jan-16	16		302.7			2785.1			
2016	7-Jan-16	17		337.7			2612.5			
2016	7-Jan-16	18		345.7			2951.3			
2016	7-Jan-16	19		273.8			2839.5			
2016	7-Jan-16	20		279			2642.4			
2016	7-Jan-16	21		285.1			2507.7			
2016	7-Jan-16	22		301.8			2479.1			
2016	7-Jan-16	23		262.5			2451.9			
2016	8-Jan-16	0		319.9			2447.6			
2016	8-Jan-16	1		317.1			2431.4			
2016	8-Jan-16	2		307.3			2426.5			
2016	8-Jan-16	3		289.4			2433.2			
2016	8-Jan-16	4		293.4			2436.6			
2016	8-Jan-16	5		453.4			2436			
2016	8-Jan-16	6		381.7			2453.7			
2016	8-Jan-16	7		336.6			2665.8			
2016	8-Jan-16	8		286.5			2755.7			
2016	8-Jan-16	9		355.3			2864.6			
2016	8-Jan-16	10		328.6			3105.6			
2016	8-Jan-16	11		314.4			3378.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	8-Jan-16	12		359.4			3627.5			
2016	8-Jan-16	13		322.1			3510			
2016	8-Jan-16	14		292.2			3050.8			
2016	8-Jan-16	15		307.6			2879.9			
2016	8-Jan-16	16		475.7			2982.7			
2016	8-Jan-16	17		597.6			3678.1			
2016	8-Jan-16	18		917.5			3908.1			
2016	8-Jan-16	19		340.5			3528.4			
2016	8-Jan-16	20		160.2			3116.5			
2016	8-Jan-16	21		209.8			2775.8			
2016	8-Jan-16	22		290.5			2485.6			
2016	8-Jan-16	23		324			2492.1			
2016	9-Jan-16	0		378.6			2511.3			
2016	9-Jan-16	1		354.5			2509.5			
2016	9-Jan-16	2		350.2			2520.1			
2016	9-Jan-16	3		347.4			2516.5			
2016	9-Jan-16	4		352.3			2545.7			
2016	9-Jan-16	5		360.1			2492.6			
2016	9-Jan-16	6	0	398.4			2502.4			
2016	9-Jan-16	7	0	399.5			2510.3			
2016	9-Jan-16	8	0	347.1			2502.2			
2016	9-Jan-16	9	0	326.6			2513.3			
2016	9-Jan-16	10	0	360.2			2521.8			
2016	9-Jan-16	11	0	369.5			2512.5			
2016	9-Jan-16	12	0	376			2504.1			
2016	9-Jan-16	13	0	373.8			2495.3			
2016	9-Jan-16	14	0	366.2			2514.1			
2016	9-Jan-16	15	0	353.9			2506.1			
2016	9-Jan-16	16	0	345.4			2522.3			
2016	9-Jan-16	17	0	330.4			2511.4			
2016	9-Jan-16	18	0	336.9			2532.4			
2016	9-Jan-16	19	0	341.9			2521.4			
2016	9-Jan-16	20	0	340.6			2506.3			
2016	9-Jan-16	21	0	378.8			2510.4			
2016	9-Jan-16	22	0	391.5			2504.5			
2016	9-Jan-16	23	0	382.9			2494.1			
2016	10-Jan-16	0	0	375.4			2485.2			
2016	10-Jan-16	1	0	386.6			2476			
2016	10-Jan-16	2	0	396			2463.7			
2016	10-Jan-16	3	0	396.6			2473.2			
2016	10-Jan-16	4	0	401.9			2449.5			
2016	10-Jan-16	5	0	527.5			2462.9			
2016	10-Jan-16	6	0	491.5			2442.7			
2016	10-Jan-16	7	0	414.5			2448.3			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-Jan-16	8	0	328.4			2452			
2016	10-Jan-16	9	0	366.8			2451.5			
2016	10-Jan-16	10	0	419.1			2442.4			
2016	10-Jan-16	11	0	394.3			2441.9			
2016	10-Jan-16	12	0	393.9			2447.7			
2016	10-Jan-16	13	0	398.7			2451.4			
2016	10-Jan-16	14	4.9	403.3			2457.2			
2016	10-Jan-16	15	44.5	408.3			2461			
2016	10-Jan-16	16	52.9	393.2			2425.3			
2016	10-Jan-16	17	9.218	385.6			2475.8			
2016	10-Jan-16	18	2.64	412.9	0.011		2807.6			
2016	10-Jan-16	19	6	524	0.054		3056.1			
2016	10-Jan-16	20	20.6	616.4	0.059		3513			
2016	10-Jan-16	21	30.9	833.1	0.057		3654			
2016	10-Jan-16	22	57.6	751.7	0.057		3611.5			
2016	10-Jan-16	23	166	413.6	0.066		3218.7			
2016	11-Jan-16	0	269.5	461.8	0.066		3352.3			
2016	11-Jan-16	1	477.3	312.4	0.066		3426.3			
2016	11-Jan-16	2	676.9	279.8	0.067		3443.8			
2016	11-Jan-16	3	901	314.9	0.066		3436.8			
2016	11-Jan-16	4	1073.4	436.2	0.066		3489.2			
2016	11-Jan-16	5	1004.4	760.3	0.066		3830			
2016	11-Jan-16	6	737.5	857.6	0.066		3766.6			
2016	11-Jan-16	7	833.2	771.1	0.066		3981.3			
2016	11-Jan-16	8	1024.2	593	0.067		3787.6			
2016	11-Jan-16	9	916.8	600	0.067		3497.9			
2016	11-Jan-16	10	838.1	664.6	0.067		3241.5			
2016	11-Jan-16	11	678.6	656	0.067		2890.2			
2016	11-Jan-16	12	516.8	663	0.067		2575.2			
2016	11-Jan-16	13	2.21	644.1	0.058		2448.2			
2016	11-Jan-16	14		649.2	0.052		2461.3			
2016	11-Jan-16	15		649.3	0.064		2451.4			
2016	11-Jan-16	16		616.7	0.066		2459.5			
2016	11-Jan-16	17		603.5	0.066		2542.3			
2016	11-Jan-16	18		618.5	0.066		2566.8			
2016	11-Jan-16	19		635.7	0.062		2652.1			
2016	11-Jan-16	20		666.9	0.053		3055			
2016	11-Jan-16	21		676.6	0.061		3569.9			
2016	11-Jan-16	22		686.7	0.067		3829.9			
2016	11-Jan-16	23		729.5	0.067		3454.4			
2016	12-Jan-16	0		716.5	0.067		2968.6			
2016	12-Jan-16	1		731	0.067		2533.8			
2016	12-Jan-16	2		708.8	0.066		2446.4			
2016	12-Jan-16	3		675.6	0.057		2358			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-Jan-16	4		694.6	0.052		2500.8			
2016	12-Jan-16	5		812.4	0.052		2428.5			
2016	12-Jan-16	6		717.9	0.066		2441			
2016	12-Jan-16	7		663.4	0.066		2456.5			
2016	12-Jan-16	8		618.6	0.066		2434.3			
2016	12-Jan-16	9		424.2	0.067		2428			
2016	12-Jan-16	10		332.5	0.063		2420.9			
2016	12-Jan-16	11		316.1	0.052		2446.9			
2016	12-Jan-16	12		176.5	0.057		2520.1			
2016	12-Jan-16	13		97.9	0.066		2602.3			
2016	12-Jan-16	14		104.3	0.066		2559.7			
2016	12-Jan-16	15		144.6	0.066		2550.6			
2016	12-Jan-16	16		140.7	0.052		2493.7			
2016	12-Jan-16	17		125.1	0.061		2624.7			
2016	12-Jan-16	18		111.6	0.066		3045.1			
2016	12-Jan-16	19		98.1	0.059		3344.6			
2016	12-Jan-16	20		104.8	0.061		3756.5			
2016	12-Jan-16	21		81.8	0.066		3586.1			
2016	12-Jan-16	22		136.6	0.056		3462.5			
2016	12-Jan-16	23		147.3	0.065		3261.6			
2016	13-Jan-16	0		160.2	0.066		2811.6			
2016	13-Jan-16	1		160.9	0.057		2454.7			
2016	13-Jan-16	2		159.9	0.066		2637.9			
2016	13-Jan-16	3		171	0.063		2820.8			
2016	13-Jan-16	4		176.5	0.061		2530.8			
2016	13-Jan-16	5		211.2	0.066		2440.1			
2016	13-Jan-16	6		800.3	0.066		2691.3			
2016	13-Jan-16	7		659.9	0.067		3260.4			
2016	13-Jan-16	8		478.7	0.059		3741.9			
2016	13-Jan-16	9		176.3	0.052		3753.2			
2016	13-Jan-16	10		176.3	0.065		3758			
2016	13-Jan-16	11		183.9	0.067		3741.4			
2016	13-Jan-16	12		213	0.067		3727.5			
2016	13-Jan-16	13		224.3	0.066		3725.5			
2016	13-Jan-16	14		240.7	0.067		3717.5			
2016	13-Jan-16	15		241.3	0.055		3799.5			
2016	13-Jan-16	16		548	0.06		4098.3			
2016	13-Jan-16	17		692.9	0.067		4086.1			
2016	13-Jan-16	18		708.3	0.067		3996.6			
2016	13-Jan-16	19		640.6	0.059		4037.3			
2016	13-Jan-16	20		652.3	0.065		4040.7			
2016	13-Jan-16	21		665.1	0.067		3927.7			
2016	13-Jan-16	22		621.5	0.056		3570.2			
2016	13-Jan-16	23		395.1	0.063		3139.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	14-Jan-16	0		325.3	0.072		2640			
2016	14-Jan-16	1		221.6	0.073		2461.7			
2016	14-Jan-16	2		265.2	0.064		2471.7			
2016	14-Jan-16	3		130	0.066		2494.9			
2016	14-Jan-16	4		129.1	0.062		2560.7			
2016	14-Jan-16	5		342.1	0.066		2512.6			
2016	14-Jan-16	6		323.5	0.067		2610.4			
2016	14-Jan-16	7		294.7	0.067		3227.8			
2016	14-Jan-16	8		371.5	0.067		3417.6			
2016	14-Jan-16	9		605.3	0.067		2963.6			
2016	14-Jan-16	10		312.6	0.028		2604.9			
2016	14-Jan-16	11		235.8	0.086		2501.9			
2016	14-Jan-16	12		185.4	0.076		2539.1			
2016	14-Jan-16	13		151.8	0.067		2524.9			
2016	14-Jan-16	14		140.3	0.067		2549.3			
2016	14-Jan-16	15		159.2	0.053		2549.2			
2016	14-Jan-16	16		158.1	0.052		2541.5			
2016	14-Jan-16	17		146.9	0.066		2552.3			
2016	14-Jan-16	18		126.6	0.062		2577.6			
2016	14-Jan-16	19		129.5	0.065		2553.2			
2016	14-Jan-16	20		180.4	0.066		2547.9			
2016	14-Jan-16	21		162.2	0.066		2544.3			
2016	14-Jan-16	22		166.2	0.066		2541.4			
2016	14-Jan-16	23		166.2	0.066		2543.4			
2016	15-Jan-16	0		136.8	0.066		2536.1			
2016	15-Jan-16	1		100.4	0.066		2534.9			
2016	15-Jan-16	2		35.784	0.058		2537.9			
2016	15-Jan-16	3			0.066		2545.1			
2016	15-Jan-16	4			0.066		2508			
2016	15-Jan-16	5			0.066		2530.1			
2016	15-Jan-16	6			0.066		2789.9			
2016	15-Jan-16	7			0.066		3049.6			
2016	15-Jan-16	8			0.041		3231.6			
2016	15-Jan-16	9					3025.1			
2016	15-Jan-16	10					2653.7			
2016	15-Jan-16	11					2511.7			
2016	15-Jan-16	12					2528.5			
2016	15-Jan-16	13					2531.1			
2016	15-Jan-16	14					2544.6			
2016	15-Jan-16	15					2557.8			
2016	15-Jan-16	16					2568			
2016	15-Jan-16	17					2560.8			
2016	15-Jan-16	18					2558.1			
2016	15-Jan-16	19					2632.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	15-Jan-16	20					2522.9			
2016	15-Jan-16	21					2520.7			
2016	15-Jan-16	22					2572.3			
2016	15-Jan-16	23					2535.7			
2016	16-Jan-16	0					2512.4			
2016	16-Jan-16	1					2492.9			
2016	16-Jan-16	2					2499.8			
2016	16-Jan-16	3					2500			
2016	16-Jan-16	4					2497.5			
2016	16-Jan-16	5					2529.7			
2016	16-Jan-16	6	0				2503.3			
2016	16-Jan-16	7	0				2639.2			
2016	16-Jan-16	8	0				2747			
2016	16-Jan-16	9	0				2509.3			
2016	16-Jan-16	10	0				2464.3			
2016	16-Jan-16	11	0				2475.3			
2016	16-Jan-16	12	0				2464.6			
2016	16-Jan-16	13	0				2467.9			
2016	16-Jan-16	14	0				2475.3			
2016	16-Jan-16	15	0				2474.9			
2016	16-Jan-16	16	0				2467.4			
2016	16-Jan-16	17	0				2512.9			
2016	16-Jan-16	18	0				2483.3			
2016	16-Jan-16	19	0				2421			
2016	16-Jan-16	20	0				2487.3			
2016	16-Jan-16	21	0				2471.3			
2016	16-Jan-16	22	0				2471.8			
2016	16-Jan-16	23	0				2486.3			
2016	17-Jan-16	0	0				2472.1			
2016	17-Jan-16	1	7.5				2482.3			
2016	17-Jan-16	2	41.1	0			2466.9			
2016	17-Jan-16	3	58.1	0			2457.9			
2016	17-Jan-16	4	111.3	0			2503.1			
2016	17-Jan-16	5	260.9	0			2480.1			
2016	17-Jan-16	6	862.1	5.1			2459.3			
2016	17-Jan-16	7	461.7	4.897			2462.1			
2016	17-Jan-16	8	150.3	2.964			2463.6			
2016	17-Jan-16	9	165.2	4.6			2450.5			
2016	17-Jan-16	10	160.1	3.7	0.027		2447.4			
2016	17-Jan-16	11	155.2	1.739	0.066		2461.1			0.46
2016	17-Jan-16	12	150.5	3.7	0.067		2447.2			0
2016	17-Jan-16	13	154.1	4.6	0.067		2429			0
2016	17-Jan-16	14	158	4.8	0.067		2411.5			0
2016	17-Jan-16	15	180.5	61.8	0.067		2376.7			0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-Jan-16	16	202.7	90.1	0.066		2363.4			0
2016	17-Jan-16	17	226.5	102.7	0.066		2401.9			0
2016	17-Jan-16	18	228.4	134.8	0.066		2669.8		0	0
2016	17-Jan-16	19	233.8	238.7	0.067		2658.7		0	0
2016	17-Jan-16	20	232	459.2	0.067		2586.7		0.6	0
2016	17-Jan-16	21	236.8	600.8	0.067		2360.3		0	0
2016	17-Jan-16	22	227.2	965.2	0.067		2391.4		5	0
2016	17-Jan-16	23	231	601.3	0.067		2409.7		15.6	0
2016	18-Jan-16	0	196.8	388.6	0.075		2409.1		18.3	13.4
2016	18-Jan-16	1	166.2	392.7	0.079		2410.3		20.6	66.9
2016	18-Jan-16	2	159.2	379.9	0.079		2398.3		19.8	98.8
2016	18-Jan-16	3	165.7	387.4	0.079		2398.5		18.6	123.5
2016	18-Jan-16	4	171	414.4	0.073		2398.2		20.6	252.5
2016	18-Jan-16	5	187.4	513.9	0.067		2586.2		22.6	393.5
2016	18-Jan-16	6	235.7	512.4	0.07		2632.3		25.9	421.4
2016	18-Jan-16	7	329.4	571	0.079		2835.5		32	398.2
2016	18-Jan-16	8	383.3	696.8	0.079		3341.8		29.7	495.5
2016	18-Jan-16	9	370.9	599.9	0.079		3749.2		31.9	572.3
2016	18-Jan-16	10	508.4	732.1	0.079		3944.1		32.2	514.7
2016	18-Jan-16	11	403.4	643.9	0.079		3806.8		33.8	395.2
2016	18-Jan-16	12	529.1	731.9	0.079		3927		36.4	401.6
2016	18-Jan-16	13	572.1	754.8	0.077		3758.6		38.4	405.2
2016	18-Jan-16	14	609	740.5	0.067		3497.7		41.3	406.5
2016	18-Jan-16	15	749.3	801.7	0.074		3539.2		48.7	408.4
2016	18-Jan-16	16	943.2	1037.4	0.079		3736.4		120.8	425.5
2016	18-Jan-16	17	1210.9	745.3	0.079		4130.6		178.3	476.4
2016	18-Jan-16	18	1931.3	1079.6	0.079		4207.4		276.4	509.8
2016	18-Jan-16	19	915.4	1177	0.079		4246.4		320.7	561.6
2016	18-Jan-16	20	666.5	952.7	0.079		4188.3		465.4	542.5
2016	18-Jan-16	21	603.4	889.1	0.071		4206.5		526.5	558.7
2016	18-Jan-16	22	640.3	887.1	0.072		4128.9		506.8	494.4
2016	18-Jan-16	23	688.5	932.5	0.079		3991.9		548.2	410.5
2016	19-Jan-16	0	695.7	958.8	0.079		4155.7		530.2	413.3
2016	19-Jan-16	1	700.2	961.5	0.079		4122.1		487.8	416.9
2016	19-Jan-16	2	720.6	943.7	0.07		4116.9		514.1	411.4
2016	19-Jan-16	3	724.2	894.9	0.078		4121.9		538.3	379.9
2016	19-Jan-16	4	706	904.2	0.079		4125.4		561	360.7
2016	19-Jan-16	5	687.7	879.4	0.079		4013.5		549.5	351.3
2016	19-Jan-16	6	742.3	1002.9	0.079		4199.4		579.9	371.3
2016	19-Jan-16	7	728.4	882.1	0.079		4232.8		560.2	457.2
2016	19-Jan-16	8	684.4	871.7	0.079		4199.1		558.1	452.6
2016	19-Jan-16	9	695	836.5	0.079		4189.5		543.5	447.8
2016	19-Jan-16	10	688	806.2	0.079		4162.2		520.7	419.2
2016	19-Jan-16	11	765.8	887.5	0.079		4153		537.6	465.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	19-Jan-16	12	699.1	762.4	0.079		4084.8		511	391.6
2016	19-Jan-16	13	764.8	845.9	0.079		4201.7		504.1	405.9
2016	19-Jan-16	14	679.5	773.9	0.079		4219.8		519.3	372.7
2016	19-Jan-16	15	706	762.5	0.079		4213.3		535.4	368.8
2016	19-Jan-16	16	686.7	747.1	0.079		4111.4		529.7	367.6
2016	19-Jan-16	17	793.3	830.2	0.079		4254.4		548.5	441.4
2016	19-Jan-16	18	745	829.8	0.079		4296.8		567.2	407.1
2016	19-Jan-16	19	776.7	792.2	0.079		4281.5		544.2	418.5
2016	19-Jan-16	20	850.2	862.4	0.079		4258.4		634.5	454.8
2016	19-Jan-16	21	821.2	879.1	0.079		4293.8		692.2	445.2
2016	19-Jan-16	22	765.8	813.6	0.079		4243.3		723.1	374.7
2016	19-Jan-16	23	747.3	786.2	0.079		4220.7		601.9	384.2
2016	20-Jan-16	0	704.7	764.1	0.079		4022		520.6	381.7
2016	20-Jan-16	1	734.5	778.9	0.079		4092.4		552.1	422.4
2016	20-Jan-16	2	701.6	742.5	0.08		3725.9		525.6	378.7
2016	20-Jan-16	3	698.4	759.4	0.079		3401.9		527	376.9
2016	20-Jan-16	4	790	860.5	0.074		3270.9		533.6	377.7
2016	20-Jan-16	5	809.9	1031.8	0.079		3003.8		528.9	380.5
2016	20-Jan-16	6	818.1	927.6	0.079		3221.5		534	438.8
2016	20-Jan-16	7	853.4	929.9	0.079		3876.3		642.8	462.2
2016	20-Jan-16	8	774.8	757.2	0.079		4145.2		589.6	399.6
2016	20-Jan-16	9	723.8	688.5	0.076		4234.2		562	407.4
2016	20-Jan-16	10	723.4	675.4	0.067		4162		536.3	424.9
2016	20-Jan-16	11	536.2	538.4	0.067		4064.2		523.9	398
2016	20-Jan-16	12	392.1	401.3	0.067		3881.9		516.4	416.7
2016	20-Jan-16	13	331.7	285.4	0.077		3765.9		516.1	389.3
2016	20-Jan-16	14	559.6	402.1	0.079		3688.6		515.9	395.5
2016	20-Jan-16	15	674.2	449.6	0.079		3374.6		527.2	394.5
2016	20-Jan-16	16	776.7	479.3	0.068		2959.3		536.8	390.7
2016	20-Jan-16	17	1319.6	985.9	0.077		3000.4		562.3	411.8
2016	20-Jan-16	18	1250.9	1282.8	0.071		3288.5		553.3	395.3
2016	20-Jan-16	19	641	639.4	0.077		3504.3		539.4	387.8
2016	20-Jan-16	20	641.7	176.7	0.071		3467.8		530.2	388.6
2016	20-Jan-16	21	645.8	178.62	0.076		3332.2		528.1	392.2
2016	20-Jan-16	22	616.2		0.069		2900		537	389
2016	20-Jan-16	23	622.7		0.078		2547.1		542.4	385.1
2016	21-Jan-16	0	631.9		0.067		2516.9		532	407.9
2016	21-Jan-16	1	661.2		0.077		2534.7		523.7	394.8
2016	21-Jan-16	2	642		0.072		2528.1		521.3	417.6
2016	21-Jan-16	3	662.1		0.069		2517.5		518.5	416.8
2016	21-Jan-16	4	695.5		0.079		2571.4		535.2	429.9
2016	21-Jan-16	5	761.8		0.075		3294.1		691.7	513.7
2016	21-Jan-16	6	700.5		0.067		3905		644.2	464.6
2016	21-Jan-16	7	678.5		0.072		4000.6		605.5	480.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-Jan-16	8	623.1		0.079		4113.9		647.1	494.4
2016	21-Jan-16	9	522.8		0.079		3845.1		535.5	430.8
2016	21-Jan-16	10	623.7		0.074		3778.3		544.5	430.2
2016	21-Jan-16	11	639		0.067		3575.7		523.2	414.3
2016	21-Jan-16	12	515.3		0.077		3348		515.4	412.8
2016	21-Jan-16	13	394.8		0.079		3038.9		504.3	411.4
2016	21-Jan-16	14	310.7		0.079		2669.3		525.7	411.9
2016	21-Jan-16	15	295.6		0.069		2591.9		535.7	421.5
2016	21-Jan-16	16	297.9		0.069		2557		539.5	424.5
2016	21-Jan-16	17	447.5		0.076		2630.4		542.1	431.6
2016	21-Jan-16	18	520.2		0.067		2797.2		534.6	440.5
2016	21-Jan-16	19	662.7		0.079		3144.5		539	476.2
2016	21-Jan-16	20	690.9		0.068		3753.4		518.3	434.4
2016	21-Jan-16	21	578.6		0.075		3611.4		515	414
2016	21-Jan-16	22	551.5		0.078		3057.3		515.1	415
2016	21-Jan-16	23	578.3		0.069		2715.6		516.6	410
2016	22-Jan-16	0	480.7		0.079		2631.4		421.4	350.3
2016	22-Jan-16	1	609.3		0.073		2612.4		357.1	271.3
2016	22-Jan-16	2	795.5		0.073		2604.6		324.8	222.4
2016	22-Jan-16	3	427.1		0.079		2757.4		374.3	246.8
2016	22-Jan-16	4	275.6		0.068		3500.8		627.2	412.9
2016	22-Jan-16	5	281.6		0.067		3534.3		737.3	502.1
2016	22-Jan-16	6	278.6		0.07		3625.1		580.3	419.8
2016	22-Jan-16	7	248.5		0.079		3576.5		500.2	355
2016	22-Jan-16	8	266.9		0.079		3676.2		484.2	348.6
2016	22-Jan-16	9	395.9		0.073		3936.4		485.5	324
2016	22-Jan-16	10	544.7		0.07		4187.5		520	381.6
2016	22-Jan-16	11	813.1		0.073		4309.7		555.4	393.7
2016	22-Jan-16	12	822.5		0.081		4296.1		573.9	378.7
2016	22-Jan-16	13	546.7		0.081		4107		550.2	343
2016	22-Jan-16	14	533.2		0.079		2830.2		699.6	386.1
2016	22-Jan-16	15	821.1		0.07		2646.8		684.5	485.6
2016	22-Jan-16	16	877.6		0.07		2649.9		723.8	540.5
2016	22-Jan-16	17	934.3		0.08		3095.7		719.2	536.8
2016	22-Jan-16	18	931.7		0.071		3794.3		709.1	532.3
2016	22-Jan-16	19	945		0.07		4238.3		711.3	521.7
2016	22-Jan-16	20	951.4		0.078		4280.5		692.5	530.7
2016	22-Jan-16	21	939.3		0.075		4281.7		664.6	523
2016	22-Jan-16	22	817.7		0.07		4097.5		517.1	467
2016	22-Jan-16	23	692.1		0.076		3712.3		491.5	307.7
2016	23-Jan-16	0	523.4		0.079		3271.2		515.4	260.8
2016	23-Jan-16	1	490.9		0.07		2929.2		527.2	231.2
2016	23-Jan-16	2	492.2		0.075		2678.9		518.3	237.1
2016	23-Jan-16	3	488.1		0.08		2845		531.6	240.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-Jan-16	4	530.3		0.072		3260.2		520.2	248.8
2016	23-Jan-16	5	497.2		0.069		3125.9		521.8	252.2
2016	23-Jan-16	6	465.8		0.069		2898.3		527.6	254.1
2016	23-Jan-16	7	497.6		0.069		3017.6		534.8	262
2016	23-Jan-16	8	472.3		0.069		3218.6		571.5	272.1
2016	23-Jan-16	9	510.5		0.075		3642		614	368.5
2016	23-Jan-16	10	652.7		0.08		3942.9		683.6	493
2016	23-Jan-16	11	765.8		0.08		3888.9		704.3	441.7
2016	23-Jan-16	12	915.5		0.075		3873		567.1	436
2016	23-Jan-16	13	970.1		0.069		3814.7		497.9	448.2
2016	23-Jan-16	14	760.6		0.071		3641.6		540.6	349.9
2016	23-Jan-16	15	826.2		0.08		3785.8		564.6	367.5
2016	23-Jan-16	16	978.7		0.072		3847.8		557.3	418.1
2016	23-Jan-16	17	1058.8		0.069		3846.8		631.1	480
2016	23-Jan-16	18	1055.5		0.086		3884.2	0.003	740.3	477.4
2016	23-Jan-16	19	1108.5		40.841		3839.8	0.1	625.3	449.5
2016	23-Jan-16	20	1046.4		252.152	0	3815.1	0.119	570.5	469.9
2016	23-Jan-16	21	991.4		310.006	0	3761.7	0.125	508.2	361.9
2016	23-Jan-16	22	796.1		300.5	0	3377	0.081	488.7	361.4
2016	23-Jan-16	23	585.9		291.1		2794.6	0.047	493.4	359.6
2016	24-Jan-16	0	543		289		2571.4	0.052	495.1	354.6
2016	24-Jan-16	1	577.4		287.7		2511.1	0.053	498.5	356.5
2016	24-Jan-16	2	532.3		286.4		2496.7	0.062	505.1	356
2016	24-Jan-16	3	492.8		285.1		2515.4	0.06	502.9	353.6
2016	24-Jan-16	4	491.7		283.9		2510	0.062	499.3	355.2
2016	24-Jan-16	5	533.5		283.4		2517.2	178.154	504.7	352.4
2016	24-Jan-16	6	480.8		284.1		2572.8	716.925	506	355.2
2016	24-Jan-16	7	460.7		284.9		2814.4	805.9	493.7	353.1
2016	24-Jan-16	8	720.4		285.6		3167.8	803.4	498.1	315.854
2016	24-Jan-16	9	1063.1		286.4		2892.7	792.7	502.5	295.2
2016	24-Jan-16	10	806.7		287.1	0	2651.2	810.2	508.5	286.4
2016	24-Jan-16	11	679.1		287.9	85.9	2531.1	819.8	507.4	296.4
2016	24-Jan-16	12	465.9		288.6	300.7	2511.1	822.1	515	339.8
2016	24-Jan-16	13	401		288.8	305.3	2504.3	824.5	511.4	351.9
2016	24-Jan-16	14	331.3		288.6	294.2	2524.6	823.9	511.4	355.9
2016	24-Jan-16	15	222.6		288.3	301.2	2516.7	836.9	520.8	356.8
2016	24-Jan-16	16	173		288.1	303.4	2520.4	846.9	519.9	357.7
2016	24-Jan-16	17	173.8		287.8	305	2654.3	844.1	523.2	361.9
2016	24-Jan-16	18	141.6		287.5	306.8	2905.6	845	520.2	361
2016	24-Jan-16	19	151.9		287.3	310.5	2954.7	845.3	519	309.6
2016	24-Jan-16	20	142.7		287	313.3	2838.6	845.7	520.3	301.1
2016	24-Jan-16	21	150.6		285.4	310.5	2998.9	841.3	516.8	301.8
2016	24-Jan-16	22	103.6		262.6	314.2	3143.3	836.5	554.7	305.7
2016	24-Jan-16	23	128		156.11	330.8	3002.6	837.3	543.4	303.5



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	25-Jan-16	0	110.9		27.397	344	2675.9	841	512.8	302.1
2016	25-Jan-16	1	105.4			343.7	2678.8	840.1	509.7	300.1
2016	25-Jan-16	2	101.8			336.8	2988	843	508.5	299.9
2016	25-Jan-16	3	119.3			339.6	3202.7	846.6	507.3	299.3
2016	25-Jan-16	4	122.1			338.5	3561.6	844.8	522.7	380.6
2016	25-Jan-16	5	248.3			387.7	3943.7	1090.6	543.4	444.7
2016	25-Jan-16	6	610.6			692.2	4180.1	1947.1	573.6	476.6
2016	25-Jan-16	7	1025.5			693.9	4178.4	2817.5	530	376.9
2016	25-Jan-16	8	835.3			473.4	4185.5	2819.5	545.7	383.8
2016	25-Jan-16	9	496.2			412.9	3905.5	2499	513	328.2
2016	25-Jan-16	10	352.4			435	3434.1	1222.8	503.8	320.7
2016	25-Jan-16	11	390.8			407.5	2955.4	793.1	523.8	316
2016	25-Jan-16	12	384.4			421.6	2623.3	795.2	545.2	316
2016	25-Jan-16	13	419.2			110.3	2613.8	193.631	553.6	320.4
2016	25-Jan-16	14	387.2				2602.8	0.006	465.7	324.5
2016	25-Jan-16	15	332.5		0.02		2599.5		500.5	324.2
2016	25-Jan-16	16	230.9		0.066		2616.2		490.7	325
2016	25-Jan-16	17	232.6		0.067		2682.2		495.2	330.2
2016	25-Jan-16	18	272.1		0.078		3203		491.5	373.8
2016	25-Jan-16	19	277.9		0.078		3376.2		491	331.8
2016	25-Jan-16	20	239.4		0.074		3305.4		490.7	323.6
2016	25-Jan-16	21	207.8		0.066		2756		488.4	323.1
2016	25-Jan-16	22	152.5		0.072		2573.6		489.9	322.4
2016	25-Jan-16	23	149.2		0.078		2525		486.2	323
2016	26-Jan-16	0	110.8		0.078		2283.2		487	347.1
2016	26-Jan-16	1	119.2		0.087		904.134		487.4	361.3
2016	26-Jan-16	2	96.1		0.087				488.5	354.5
2016	26-Jan-16	3	107.1		0.087				484.1	352
2016	26-Jan-16	4	97.3		0.087				490.8	366.5
2016	26-Jan-16	5	110.6		0.087				494.3	358.7
2016	26-Jan-16	6	125.6		0.087				496.9	373.9
2016	26-Jan-16	7	131.1		0.087				563.3	365.7
2016	26-Jan-16	8	103.3		0.087				569.8	339.4
2016	26-Jan-16	9	99.8		0.087				556	338.3
2016	26-Jan-16	10	100.8		0.087				535.4	341.2
2016	26-Jan-16	11	102.2		0.08				527.9	342.2
2016	26-Jan-16	12	94.6		0.066				512	336.6
2016	26-Jan-16	13	101.4		0.052				477.8	320.9
2016	26-Jan-16	14	102.5		0.071				494.3	325.5
2016	26-Jan-16	15	105.8		0.062				498.5	329
2016	26-Jan-16	16	101.7		0.067				496.2	327.4
2016	26-Jan-16	17	105.6		0.079				494.6	327.7
2016	26-Jan-16	18	214.4		0.079				492	331.2
2016	26-Jan-16	19	281.4		0.079				474.9	327.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	26-Jan-16	20	258.6		0.079				488.2	327.2
2016	26-Jan-16	21	251.4		0.079				501.2	320.5
2016	26-Jan-16	22	261.1		0.079				502.3	319.8
2016	26-Jan-16	23	283.2		0.079				512.9	311.6
2016	27-Jan-16	0	263.7		0.079				434.5	337.3
2016	27-Jan-16	1	258		0.079				199.6	349.6
2016	27-Jan-16	2	245.5		0.079				139.3	334.2
2016	27-Jan-16	3	278.8		0.079				35.97	332.3
2016	27-Jan-16	4	268.5		0.076					238.9
2016	27-Jan-16	5	473.9		0.066					0
2016	27-Jan-16	6	980		0.066					0
2016	27-Jan-16	7	554.1		0.066					1.2
2016	27-Jan-16	8	496.9		0.066					0.776
2016	27-Jan-16	9	435.6		0.068					8.9
2016	27-Jan-16	10	362		0.079					40.9
2016	27-Jan-16	11	512.6		0.075					72.4
2016	27-Jan-16	12	455		0.069					0.714
2016	27-Jan-16	13	588.6		0.077					
2016	27-Jan-16	14	561.4		0.066					
2016	27-Jan-16	15	355.1		0.066					
2016	27-Jan-16	16	307.8		0.066					
2016	27-Jan-16	17	390.6		0.066					
2016	27-Jan-16	18	498.6		0.065					
2016	27-Jan-16	19	692.5		0.065					
2016	27-Jan-16	20	839.3		0.078					
2016	27-Jan-16	21	570.7		0.078					
2016	27-Jan-16	22	547.3		0.078					
2016	27-Jan-16	23	466.1		0.078					
2016	28-Jan-16	0	345.7		0.078					
2016	28-Jan-16	1	413.8		0.078					
2016	28-Jan-16	2	385.5		0.078					
2016	28-Jan-16	3	405.6		0.078					
2016	28-Jan-16	4	471.5		0.078					
2016	28-Jan-16	5	809.9		0.066					
2016	28-Jan-16	6	1165.1		0.073					
2016	28-Jan-16	7	1232.2		0.078					
2016	28-Jan-16	8	1201.4		0.076					
2016	28-Jan-16	9	968.94		0.073					
2016	28-Jan-16	10			0.08					
2016	28-Jan-16	11			0.087					
2016	28-Jan-16	12	2.793		0.087					
2016	28-Jan-16	13	7.38		0.081					
2016	28-Jan-16	14	69.7		0.051					
2016	28-Jan-16	15	113.8		0.037					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-Jan-16	16	183.2		0.003					
2016	28-Jan-16	17	217.9							
2016	28-Jan-16	18	431.8							
2016	28-Jan-16	19	965.9							
2016	28-Jan-16	20	867.8							
2016	28-Jan-16	21	1446.3							
2016	28-Jan-16	22	673.3		0.004					
2016	28-Jan-16	23	471.6		0.056					
2016	29-Jan-16	0	363.3		0.066					
2016	29-Jan-16	1	535.5		0.066					
2016	29-Jan-16	2	490.7		0.066					
2016	29-Jan-16	3	376.5		0.069					
2016	29-Jan-16	4	313.5		0.083					
2016	29-Jan-16	5	413.1		0.072					
2016	29-Jan-16	6	756.9		0.066					
2016	29-Jan-16	7	794.7		0.077					
2016	29-Jan-16	8	740.8		0.078					
2016	29-Jan-16	9	703.2		0.078					
2016	29-Jan-16	10	684.7		0.078					
2016	29-Jan-16	11	554.9		0.071					
2016	29-Jan-16	12	461.5		0.068					
2016	29-Jan-16	13	454.2		0.078					
2016	29-Jan-16	14	611.6		0.078					
2016	29-Jan-16	15	425.7		0.077					
2016	29-Jan-16	16	403		0.071					
2016	29-Jan-16	17	465.8		0.065					
2016	29-Jan-16	18	656.9		0.065					
2016	29-Jan-16	19	960.2		0.065					
2016	29-Jan-16	20	785.2		0.072					
2016	29-Jan-16	21	819.2		0.078					
2016	29-Jan-16	22	745.3		0.078					
2016	29-Jan-16	23	568.9		0.078					
2016	30-Jan-16	0	354.9		0.078					
2016	30-Jan-16	1	344.2		0.078					
2016	30-Jan-16	2	219.9		0.078					
2016	30-Jan-16	3	268		0.071					
2016	30-Jan-16	4	247.8		0.073					
2016	30-Jan-16	5	382.3		0.078					
2016	30-Jan-16	6	471.5		0.078					
2016	30-Jan-16	7	573.4		0.078					
2016	30-Jan-16	8	639.1		0.07					
2016	30-Jan-16	9	565.4		0.069					
2016	30-Jan-16	10	445.4		0.078					
2016	30-Jan-16	11	466.1		0.078					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	30-Jan-16	12	464.2		0.077					
2016	30-Jan-16	13	502.1		0.066					
2016	30-Jan-16	14	491.4		0.07					
2016	30-Jan-16	15	537.6		0.078					
2016	30-Jan-16	16	898.3		0.078					
2016	30-Jan-16	17	639.1		0.071					
2016	30-Jan-16	18	636.9		0.066					
2016	30-Jan-16	19	848.9		0.066					
2016	30-Jan-16	20	1164.7		0.077					
2016	30-Jan-16	21	1927.3		0.078					
2016	30-Jan-16	22	1642.7		0.078					
2016	30-Jan-16	23	832.8		0.078					
2016	31-Jan-16	0	698.2		0.069					
2016	31-Jan-16	1	484.5		0.066					
2016	31-Jan-16	2	395		0.075					
2016	31-Jan-16	3	390.6		0.078					
2016	31-Jan-16	4	303.4		0.066					
2016	31-Jan-16	5	350.2		0.067					
2016	31-Jan-16	6	723.7		0.078					
2016	31-Jan-16	7	522		0.078					
2016	31-Jan-16	8	528		0.074					
2016	31-Jan-16	9	629.1		0.027					
2016	31-Jan-16	10	856.7							
2016	31-Jan-16	11	593.1							
2016	31-Jan-16	12	496.5							
2016	31-Jan-16	13	421.3							
2016	31-Jan-16	14	330.8							
2016	31-Jan-16	15	320.7							
2016	31-Jan-16	16	308.6							
2016	31-Jan-16	17	305.6							
2016	31-Jan-16	18	282.3							
2016	31-Jan-16	19	291.6							
2016	31-Jan-16	20	272.7							
2016	31-Jan-16	21	286.2							
2016	31-Jan-16	22	277.4							
2016	31-Jan-16	23	281.7							
2016	1-Feb-16	0	258.2							
2016	1-Feb-16	1	262.4							
2016	1-Feb-16	2	260.2							
2016	1-Feb-16	3	274.9							
2016	1-Feb-16	4	267.3							
2016	1-Feb-16	5	274.2							
2016	1-Feb-16	6	288.1							
2016	1-Feb-16	7	338.5							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-Feb-16	8	290.1							
2016	1-Feb-16	9	265.5							
2016	1-Feb-16	10	256.2							
2016	1-Feb-16	11	282.6							
2016	1-Feb-16	12	254.9							
2016	1-Feb-16	13	260.5							
2016	1-Feb-16	14	273							
2016	1-Feb-16	15	257.9							
2016	1-Feb-16	16	248.2							
2016	1-Feb-16	17	265.9							
2016	1-Feb-16	18	293.1							
2016	1-Feb-16	19	418							
2016	1-Feb-16	20	594.5							
2016	1-Feb-16	21	617							
2016	1-Feb-16	22	452.3							
2016	1-Feb-16	23	346.8							
2016	2-Feb-16	0	276.7							
2016	2-Feb-16	1	284.4							
2016	2-Feb-16	2	275.7							
2016	2-Feb-16	3	273.4							
2016	2-Feb-16	4	269.5							
2016	2-Feb-16	5	263.9							
2016	2-Feb-16	6	301.1							
2016	2-Feb-16	7	481							
2016	2-Feb-16	8	607.4							
2016	2-Feb-16	9	449.6							
2016	2-Feb-16	10	374.7							
2016	2-Feb-16	11	336.6							
2016	2-Feb-16	12	282.7							
2016	2-Feb-16	13	299.3							
2016	2-Feb-16	14	296.5							
2016	2-Feb-16	15	292.6							
2016	2-Feb-16	16	287.1							
2016	2-Feb-16	17	316.5							
2016	2-Feb-16	18	320.9							
2016	2-Feb-16	19	330.8							
2016	2-Feb-16	20	423.5							
2016	2-Feb-16	21	473.9							
2016	2-Feb-16	22	601.2							
2016	2-Feb-16	23	804.6							
2016	3-Feb-16	0	758.8							
2016	3-Feb-16	1	461.9							
2016	3-Feb-16	2	302.2							
2016	3-Feb-16	3	287.4							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	3-Feb-16	4	286							
2016	3-Feb-16	5	375.3							
2016	3-Feb-16	6	701.1							
2016	3-Feb-16	7	1433.1							
2016	3-Feb-16	8	915.4							
2016	3-Feb-16	9	729							
2016	3-Feb-16	10	417.6							
2016	3-Feb-16	11	200.3							
2016	3-Feb-16	12	112.9							
2016	3-Feb-16	13	140.9							
2016	3-Feb-16	14	204.4							
2016	3-Feb-16	15	197.6							
2016	3-Feb-16	16	248.6							
2016	3-Feb-16	17	355							
2016	3-Feb-16	18	626.2							
2016	3-Feb-16	19	759.1							
2016	3-Feb-16	20	831.5							
2016	3-Feb-16	21	1128.8							
2016	3-Feb-16	22	1195.7							
2016	3-Feb-16	23	796.2							
2016	4-Feb-16	0	744.1							
2016	4-Feb-16	1	698.1							
2016	4-Feb-16	2	577.8							
2016	4-Feb-16	3	469.8							
2016	4-Feb-16	4	374.9							
2016	4-Feb-16	5	581.6							
2016	4-Feb-16	6	953.5							
2016	4-Feb-16	7	1399.9							
2016	4-Feb-16	8	1157.8							
2016	4-Feb-16	9	703.9							
2016	4-Feb-16	10	386.4							
2016	4-Feb-16	11	389.3							
2016	4-Feb-16	12	259.9							
2016	4-Feb-16	13	311.9							
2016	4-Feb-16	14	355.2							
2016	4-Feb-16	15	401.7							
2016	4-Feb-16	16	1257.9							
2016	4-Feb-16	17	1166							
2016	4-Feb-16	18	951.5			0				
2016	4-Feb-16	19	823.9			0				
2016	4-Feb-16	20	899.6			0				
2016	4-Feb-16	21	814.9			0				
2016	4-Feb-16	22	609.6			0				
2016	4-Feb-16	23	463.3			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	5-Feb-16	0	400.8			0				
2016	5-Feb-16	1	258.3			0				
2016	5-Feb-16	2	186.7			0				
2016	5-Feb-16	3	171.3			0				
2016	5-Feb-16	4	346.7			0				
2016	5-Feb-16	5	871.5			0				
2016	5-Feb-16	6	1065.4			0				
2016	5-Feb-16	7	1139.4			0				
2016	5-Feb-16	8	1077			0				
2016	5-Feb-16	9	1108.2			0				
2016	5-Feb-16	10	1110.4							
2016	5-Feb-16	11	1111.7							
2016	5-Feb-16	12	1082.6							
2016	5-Feb-16	13	867.7		0.063					
2016	5-Feb-16	14	564.2		0.079					
2016	5-Feb-16	15	379.9		0.088					
2016	5-Feb-16	16	552.1		0.088					
2016	5-Feb-16	17	547.3		0.088					
2016	5-Feb-16	18	677.5		0.088					
2016	5-Feb-16	19	653.4		0.088					
2016	5-Feb-16	20	934.6		0.088					
2016	5-Feb-16	21	1319.8		0.088					
2016	5-Feb-16	22	1264.5		0.088					
2016	5-Feb-16	23	815.3		0.088					
2016	6-Feb-16	0	595.1		0.088					
2016	6-Feb-16	1	479.8		0.088					
2016	6-Feb-16	2	494.4		0.087					
2016	6-Feb-16	3	462.3		0.084					
2016	6-Feb-16	4	464.5		0.088					
2016	6-Feb-16	5	697.3		0.084					
2016	6-Feb-16	6	821.5		0.08					
2016	6-Feb-16	7	1172.9		0.08					
2016	6-Feb-16	8	1369.5		0.08					
2016	6-Feb-16	9	826.3		0.08					
2016	6-Feb-16	10	462.8		0.08					
2016	6-Feb-16	11	413.2		0.08					
2016	6-Feb-16	12	334.1		0.08					
2016	6-Feb-16	13	300.3		0.08					
2016	6-Feb-16	14	230.6		0.079					
2016	6-Feb-16	15	355.8		0.079					
2016	6-Feb-16	16	346.3		0.077					
2016	6-Feb-16	17	306.2		0.066					
2016	6-Feb-16	18	401.3		0.079					
2016	6-Feb-16	19	650.1		0.076					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-Feb-16	20	881.9		0.073					
2016	6-Feb-16	21	1116.1		0.079					
2016	6-Feb-16	22	1258		0.069					
2016	6-Feb-16	23	840.5		0.078					
2016	7-Feb-16	0	568.8		0.079					
2016	7-Feb-16	1	634.3		0.073					
2016	7-Feb-16	2	787.9	0	0.076					
2016	7-Feb-16	3	886.5	0	0.079					
2016	7-Feb-16	4	693.5	0	0.079					
2016	7-Feb-16	5	560.3	0	0.084					
2016	7-Feb-16	6	666.7	0.9	0.08					
2016	7-Feb-16	7	973.5	0.9	0.08					
2016	7-Feb-16	8	1219.4	1.1	0.082					
2016	7-Feb-16	9	1399.9	1.1	0.079					
2016	7-Feb-16	10	661.2	1.1	0.073		0			
2016	7-Feb-16	11	501.4	1	0.068		0			
2016	7-Feb-16	12	273.9	1	0.078		0			
2016	7-Feb-16	13	226.6	1	0.078		0			
2016	7-Feb-16	14	197.1	1	0.078		239.2			
2016	7-Feb-16	15	201.8	10.9	0.078		325.2			
2016	7-Feb-16	16	199.5	42.7	0.078		338.3			
2016	7-Feb-16	17	268.9	49.1	0.078		356.2			
2016	7-Feb-16	18	279.6	52.9	0.078		386.6			
2016	7-Feb-16	19	310.3	52.5	0.078		352.8			
2016	7-Feb-16	20	304.2	66.1	0.078		334.5			
2016	7-Feb-16	21	300.9	72.3	0.078		333.1			
2016	7-Feb-16	22	301.1	132	0.078		347			
2016	7-Feb-16	23	584.4	238	0.078		370.1			
2016	8-Feb-16	0	507.8	212.1	0.078		606.4			
2016	8-Feb-16	1	495.5	192.4	0.078		1328			
2016	8-Feb-16	2	513.3	243.7	0.073		2091.2			
2016	8-Feb-16	3	502.5	669.3	0.072		2241.9			
2016	8-Feb-16	4	467	605.7	0.058		2644.3			
2016	8-Feb-16	5	747.4	544.5	0.066		2778.9			
2016	8-Feb-16	6	982.2	626.8	0.066		3300.7			
2016	8-Feb-16	7	791.4	1450.7	0.07		3901.9			
2016	8-Feb-16	8	640.2	1034.8	0.078		4210.1			
2016	8-Feb-16	9	567	967.2	0.078		4217.1			
2016	8-Feb-16	10	453.4	752	0.074		3887.6			
2016	8-Feb-16	11	394.9	724.3	0.066		3278			
2016	8-Feb-16	12	332.8	524.4	0.066		2760.5			
2016	8-Feb-16	13	246.1	434.1	0.078		2613.8			
2016	8-Feb-16	14	218.6	364.8	0.078		2626.4			
2016	8-Feb-16	15	241.2	359	0.078		2668.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	8-Feb-16	16	441.7	590.9	0.078		2685.2			
2016	8-Feb-16	17	700.6	1223.7	0.077		2674.9			
2016	8-Feb-16	18	991.6	1628.5	0.069		2662.7			
2016	8-Feb-16	19	1123.6	975.2	0.078		2628.9			
2016	8-Feb-16	20	738.8	322	0.078		2677.8			
2016	8-Feb-16	21	694.2	114.5	0.07		2657			
2016	8-Feb-16	22	453.3	93.9	0.076		2582			
2016	8-Feb-16	23	652.3	94.3	0.078		2605.6			
2016	9-Feb-16	0	512.5	226.4	0.078		2643.2			
2016	9-Feb-16	1	426.4	301.5	0.078		2629.7			
2016	9-Feb-16	2	341.5	392.2	0.069		2617.8			
2016	9-Feb-16	3	294.1	546.8	0.078		2618.5			
2016	9-Feb-16	4	286.6	425	0.078		2574.3			
2016	9-Feb-16	5	302.1	637.5	0.077		2568.9			
2016	9-Feb-16	6	342.6	421.6	0.077		2638.3			
2016	9-Feb-16	7	332.5	588.3	0.077		2586.5			
2016	9-Feb-16	8	314.4	549.4	0.077		2634			
2016	9-Feb-16	9	316	478.2	0.077		2622.7			
2016	9-Feb-16	10	259	392.8	0.077		2621.6			
2016	9-Feb-16	11	445.8	352.1	0.077		2600.4			
2016	9-Feb-16	12	546.8	293.5	0.078		2598.4			
2016	9-Feb-16	13	820.7	193.5	0.078		2574.5			
2016	9-Feb-16	14	823.8	159.5	0.078		2573.5			
2016	9-Feb-16	15	843.9	111.6	0.078		2564			
2016	9-Feb-16	16	814.4	129.3	0.078		2561.6			
2016	9-Feb-16	17	1105.6	350.9	0.078		2541.2			
2016	9-Feb-16	18	1378.5	351.3	0.078		2780.4			
2016	9-Feb-16	19	1151.8	278.7	0.078		3074.8			
2016	9-Feb-16	20	1174.4	288	0.078		3576.5			
2016	9-Feb-16	21	1054.7	252.2	0.078		3369.1			
2016	9-Feb-16	22	1902.4	520.2	0.078		2883.3			
2016	9-Feb-16	23	969	454.4	0.078		2760			
2016	10-Feb-16	0	711.1	248.3	0.078		2540.5			
2016	10-Feb-16	1	553.8	192.4	0.078		2569.2			
2016	10-Feb-16	2	535.7	92.4	0.078		2606.7			
2016	10-Feb-16	3	667.1	104	0.078		2617.7			
2016	10-Feb-16	4	462.6	168.6	0.078		2747			
2016	10-Feb-16	5	667.7	208.4	0.078		3158.3			
2016	10-Feb-16	6	1241.3	356.3	0.078		3277.7			
2016	10-Feb-16	7	1553	829.2	0.078		3593.2			
2016	10-Feb-16	8	1067.5	677.8	0.078		3581.2			
2016	10-Feb-16	9	807.8	563.1	0.078		3540.7			
2016	10-Feb-16	10	640.2	486.9	0.078		3360.2			
2016	10-Feb-16	11	493.8	411.9	0.078		2810.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-Feb-16	12	359.4	314.2	0.078		2645.4			
2016	10-Feb-16	13	249.2	253	0.078		2740.4			
2016	10-Feb-16	14	192.7	208.1	0.078		2758.2			
2016	10-Feb-16	15	313.9	208.1	0.078		2694.8			
2016	10-Feb-16	16	325.9	234.8	0.078		2630.9			
2016	10-Feb-16	17	369.1	194	0.078		2840.6			
2016	10-Feb-16	18	668.2	567	0.078		3375.2			
2016	10-Feb-16	19	1266.3	999.9	0.078		4053.3			
2016	10-Feb-16	20	1500.4	1314.7	0.078		4263.6			
2016	10-Feb-16	21	842.3	1357.4	0.078		4256.4			
2016	10-Feb-16	22	511.4	963.1	0.078		3972.2			
2016	10-Feb-16	23	447.7	520.6	0.079		3462.1			
2016	11-Feb-16	0	273.4	411.6	0.079		2859.2			
2016	11-Feb-16	1	247.9	250.2	0.079		2590.8			
2016	11-Feb-16	2	222.4	236.9	0.079		2659.5			
2016	11-Feb-16	3	321.4	209.3	0.078		3165.4			
2016	11-Feb-16	4	411.5	395.7	0.078		3990.7			
2016	11-Feb-16	5	663.7	1118.9	0.078		4293.7			
2016	11-Feb-16	6	873.6	858.5	0.078		4210.9			
2016	11-Feb-16	7	1047.9	1015.5	0.078		4224.6			
2016	11-Feb-16	8	996.2	777.5	0.079		4189			
2016	11-Feb-16	9	947.7	739.1	0.078		4128.1			
2016	11-Feb-16	10	933.1	726	0.083		4123.4			
2016	11-Feb-16	11	859.4	525.1	0.086		3998.1			
2016	11-Feb-16	12	796.7	555.6	0.086		3768.2			
2016	11-Feb-16	13	697.9	460.6	0.086		3606			
2016	11-Feb-16	14	648.2	497.5	0.082		3353.4			
2016	11-Feb-16	15	602.1	497.4	0.081		3439.9			
2016	11-Feb-16	16	458.4	496.7	0.086		2856.2			
2016	11-Feb-16	17	556.9	599.8	0.087		2916.4			
2016	11-Feb-16	18	688.8	721.7	0.086		3619.5			
2016	11-Feb-16	19	771.7	744.7	0.085		497			
2016	11-Feb-16	20	815.6	779.3	0.087					
2016	11-Feb-16	21	1006.8	744.8	0.087					
2016	11-Feb-16	22	858.9	660.2	0.087					
2016	11-Feb-16	23	942.2	611.9	0.087					
2016	12-Feb-16	0	852.7	459.5	0.087					
2016	12-Feb-16	1	739.6	230.9	0.087					
2016	12-Feb-16	2	600.9	245.4	0.087					
2016	12-Feb-16	3	1116.1	251.4	0.087					
2016	12-Feb-16	4	1267.7	258.2	0.087					
2016	12-Feb-16	5	1539.7	464.5	0.088					
2016	12-Feb-16	6	1152.3	622	0.092					
2016	12-Feb-16	7	1041.2	865.9	0.091					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-Feb-16	8	937	579.6	0.088					
2016	12-Feb-16	9	865.4	628.1	0.087					
2016	12-Feb-16	10	853.8	650.7	0.087					
2016	12-Feb-16	11	762.6	564.6	0.085					
2016	12-Feb-16	12	498.2	418.9	0.067					
2016	12-Feb-16	13	370.8	183	0.084	0				
2016	12-Feb-16	14	261.6	89.3	0.087	0				
2016	12-Feb-16	15	260.3	125.1	0.087	5.9				
2016	12-Feb-16	16	306.8	162.1	0.081	0			0	0
2016	12-Feb-16	17	293.3	180.4	0.082	0			0	0
2016	12-Feb-16	18	298.5	167	0.087	0			0	0
2016	12-Feb-16	19	227.3	144.1	0.087				0	0
2016	12-Feb-16	20	228.5	185.5	0.087				0	0
2016	12-Feb-16	21	270.3	242.2	0.081				0	0
2016	12-Feb-16	22	202.8	190.4	0.081				1.1	0
2016	12-Feb-16	23	176.6	172.6	0.087				7.1	0
2016	13-Feb-16	0	139.8	166.7	0.092				14.6	0
2016	13-Feb-16	1	97.1	161.5	0.093		0		17.8	0
2016	13-Feb-16	2	118.3	149.1	0.093	0	0		21.9	0
2016	13-Feb-16	3	183.1	145.5	0.093	0	76.4		29.8	0.6
2016	13-Feb-16	4	215.8	119	0.093	63.6	230.4		17.9	13.1
2016	13-Feb-16	5	395.3	329.8	0.095	193.5	377		21.4	20.4
2016	13-Feb-16	6	444.6	492.2	0.094	262.3	407.4		23.6	40.6
2016	13-Feb-16	7	486	614.2	0.086	502.4	396.1		30.5	69.5
2016	13-Feb-16	8	374.3	208.9	0.088	471.9	821.9		36.4	87.2
2016	13-Feb-16	9	739.1	177	0.082	337.4	568.372		32.7	162.9
2016	13-Feb-16	10	600.4	192.3	0.093	312			38.2	184.4
2016	13-Feb-16	11	558	202.9	0.093	294.2			44.9	183.7
2016	13-Feb-16	12	506.2	190.2	0.101	296.3	210.56		72.5	184.6
2016	13-Feb-16	13	365.1	104.8	0.1	294.4	503.6		106.7	186
2016	13-Feb-16	14	284.6	109.8	0.088	274.3	588.3		149.3	185.5
2016	13-Feb-16	15	339.1	301.4	0.099	304.4	950.6		198.9	195.8
2016	13-Feb-16	16	428.4	488.6	0.091	300.2	2046.4		202.2	188.2
2016	13-Feb-16	17	693.9	564.4	0.088	314	9.765		310	200.9
2016	13-Feb-16	18	1002.3	815.2	0.088	534.1			439.4	300.6
2016	13-Feb-16	19	988.1	760	0.009	569.8			557.6	278.8
2016	13-Feb-16	20	842.7	656.5		614.4			500.3	263.3
2016	13-Feb-16	21	940.9	720.5		614.8			544.3	312.5
2016	13-Feb-16	22	814.7	597.2		670.9			526.5	281.6
2016	13-Feb-16	23	907.9	670.1		657.8			528.5	265.9
2016	14-Feb-16	0	612.4	321.1		648			527	253.2
2016	14-Feb-16	1	832.5	459.5		645.5			524.3	248.7
2016	14-Feb-16	2	639.1	502.4		645.6			520.9	249.3
2016	14-Feb-16	3	439.4	315.1		651.1			551.2	247.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	14-Feb-16	4	450.4	313.2		653.5			554.3	135.3
2016	14-Feb-16	5	519.3	295.5		652.3			552.9	102.6
2016	14-Feb-16	6	627.2	208.9		651			554.5	146.3
2016	14-Feb-16	7	1094.9	413.7		668.7			560.4	201.2
2016	14-Feb-16	8	964.4	300.7		658.4			555.2	217.7
2016	14-Feb-16	9	674.4	238.9		661.9			569.6	223.6
2016	14-Feb-16	10	445.8	493.2		672			572.8	227
2016	14-Feb-16	11	485.4	359.1		662.5			582.4	232.8
2016	14-Feb-16	12	396.9	295.3		664.8			567.8	246.3
2016	14-Feb-16	13	402.5	236.7		663.8			569.5	262.6
2016	14-Feb-16	14	257.1	148.5		678.8			580.7	358.6
2016	14-Feb-16	15	242.9	154.3		666.2			585.3	337
2016	14-Feb-16	16	396.9	235.8		634.4			579.5	307.4
2016	14-Feb-16	17	887.6	489.8		404.2			579	307.5
2016	14-Feb-16	18	796.3	709.1		368.3			590.1	360.5
2016	14-Feb-16	19	932.7	776		357			559.2	325.5
2016	14-Feb-16	20	894.2	722		353.7			542.8	296.9
2016	14-Feb-16	21	818.2	653.3		355			563.6	327.6
2016	14-Feb-16	22	820.8	634.5		347.3			574.6	261.5
2016	14-Feb-16	23	839.3	548.3		338.7			538	259.4
2016	15-Feb-16	0	851.2	638.9		152			539.5	269.5
2016	15-Feb-16	1	835.7	622.9		0			540.3	239.9
2016	15-Feb-16	2	889.5	679.1		0			548.7	260.8
2016	15-Feb-16	3	759.4	394.5		0			545	243.8
2016	15-Feb-16	4	562.2	265.8		0			542	242.9
2016	15-Feb-16	5	525.5	300.8		0			542	239.3
2016	15-Feb-16	6	596.7	396.2		0			594.1	283.3
2016	15-Feb-16	7	821.6	832.3		0			627.8	363.9
2016	15-Feb-16	8	834	811.2		0			570.8	298
2016	15-Feb-16	9	966.1	814.8		0			629.3	496.6
2016	15-Feb-16	10	1049.1	858.6	0.008	0			634.7	609
2016	15-Feb-16	11	1060.4	858.1	0.07	0			683	615.8
2016	15-Feb-16	12	963.8	892.8	0.084	0			688.3	613.3
2016	15-Feb-16	13	982.2	813.8	0.086	0			681.2	546.9
2016	15-Feb-16	14	917.7	780.5	0.084	0			569.9	448.1
2016	15-Feb-16	15	1014	753.9	0.088				588.7	551.4
2016	15-Feb-16	16	957.4	727.4	0.088				570.6	493.4
2016	15-Feb-16	17	1046.4	804.5	0.088				599.4	475.9
2016	15-Feb-16	18	1014.2	709.8	0.088				663.3	585.8
2016	15-Feb-16	19	1008.5	691.9	0.087				680.9	566
2016	15-Feb-16	20	956.6	592.5	0.087				633.1	546.1
2016	15-Feb-16	21	861.9	400.3	0.087				577.1	430.3
2016	15-Feb-16	22	610.3	191.6	0.087				619.9	415.6
2016	15-Feb-16	23	371.9	82.4	0.087				595.3	371.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	16-Feb-16	0	0.29	14.976	0.088				602.1	434
2016	16-Feb-16	1		21.6	49.192	0			697.9	548.8
2016	16-Feb-16	2		7.2	235.341	0			571.6	464.9
2016	16-Feb-16	3		6.5	355.4	0			563.5	386.6
2016	16-Feb-16	4		0	360.5	202.2			550.9	304.3
2016	16-Feb-16	5		3.7	361.1	342.7			545.3	286.2
2016	16-Feb-16	6		2.9	430.4	302.2			581.2	365.4
2016	16-Feb-16	7		26.5	403.2	386.5			637	409.2
2016	16-Feb-16	8		15.8	386.3	411.7			675.1	438.7
2016	16-Feb-16	9		13.8	376.7	394.1			579.2	381.2
2016	16-Feb-16	10		15.1	375.7	399			622.5	473.1
2016	16-Feb-16	11		17.3	411.1	440.8			718.2	468.9
2016	16-Feb-16	12		16	374.3	438.6			641.8	417.4
2016	16-Feb-16	13		14.1	360.2	382.6			572.7	318
2016	16-Feb-16	14		13	354.1	390.3			578.9	295.8
2016	16-Feb-16	15		23.3	349.4	380.9			581.4	298.1
2016	16-Feb-16	16	0	69.4	350	375.3			567.2	299.5
2016	16-Feb-16	17	0	176	354.6	377.2			564.6	307.5
2016	16-Feb-16	18	0	344	478.7	430.2			596.7	412.2
2016	16-Feb-16	19	0	424.1	790.8	376.7			549.9	306.5
2016	16-Feb-16	20	0	532.2	817.4	373.3			551.3	230.6
2016	16-Feb-16	21	0	514.3	751.4	378.3			550.2	231.3
2016	16-Feb-16	22	0	492.2	519.8	390.8			549.6	222.9
2016	16-Feb-16	23	0	492.5	350.2	370.8	0		544.8	228.4
2016	17-Feb-16	0	0	523.6	327.6	406.2	88.2		542.9	229.1
2016	17-Feb-16	1	0	497.8	326.9	371.6	322.9		541.9	223.3
2016	17-Feb-16	2	0	510.6	327.5	407.5	347		540.2	223.9
2016	17-Feb-16	3		537.7	328.2	434.9	339.7		542.8	226.8
2016	17-Feb-16	4		525.3	328.7	458.2	346.2		540.3	227.3
2016	17-Feb-16	5		993	415.4	471.2	377.5		618	250.8
2016	17-Feb-16	6		1501.9	718.1	579.9	508.1		698.4	397.7
2016	17-Feb-16	7		1746.6	843.1	710.3	443.9		695.2	441.2
2016	17-Feb-16	8		1845.6	845.4	709.3	443.4		690.1	454.9
2016	17-Feb-16	9		1129	842.7	695.1	392.7		696.6	463.2
2016	17-Feb-16	10		677.5	838.6	611	381.5		662.1	413.4
2016	17-Feb-16	11		597.9	837.5	471.3	392.9		563.6	280.8
2016	17-Feb-16	12		370.5	837.6	437.6	594.3		548.9	258.3
2016	17-Feb-16	13		218.8	754.5	406.1	1524.1		539.3	265.8
2016	17-Feb-16	14		162.5	429	413	2164.6		528.3	268.4
2016	17-Feb-16	15		155	325.9	413.2	2319.7		529.9	271.9
2016	17-Feb-16	16		139.1	322.3	404	2396.1		546.8	224
2016	17-Feb-16	17		205.5	322.2	549.9	2864.8		644.3	352.9
2016	17-Feb-16	18		177.8	323.2	807	3517.4		609.8	405.1
2016	17-Feb-16	19		173.4	322.6	485.8	3561.9		512.6	300.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-Feb-16	20		369.1	323.1	424.6	3606.4		513.1	243.6
2016	17-Feb-16	21		282.9	323.6	407.8	3605.8		426.8	245.9
2016	17-Feb-16	22		222.9	318.8	410.9	3233.1		424.4	236.6
2016	17-Feb-16	23		212.3	102.168	401.9	2727.4		441.9	238.2
2016	18-Feb-16	0		224.6		31.65	2490.6		524.8	237.7
2016	18-Feb-16	1		201.3			2460.1		519.6	231.5
2016	18-Feb-16	2		211.8		0	2445.1		522.3	235.6
2016	18-Feb-16	3		196.8		0	2453.2		517.3	233.6
2016	18-Feb-16	4		206.6		0	2455.2		512.6	233.4
2016	18-Feb-16	5		294.3		0	2880.8		626	289.5
2016	18-Feb-16	6		541.9		0	3373.7		686.5	439.7
2016	18-Feb-16	7		864.1		0	3584.6		657.8	445.6
2016	18-Feb-16	8		819.9		0	3881.2		661.1	444.2
2016	18-Feb-16	9		960.1			4032.6		657.1	444.4
2016	18-Feb-16	10		802			3866.2		522.8	367.6
2016	18-Feb-16	11		394.6			3511.1		482.9	263.9
2016	18-Feb-16	12		235			3109.3		488.3	236.2
2016	18-Feb-16	13		171.9			2683.9		543	227.8
2016	18-Feb-16	14		138.9			2563.3		496.8	219.3
2016	18-Feb-16	15		141.8			2512.4		493.2	218.8
2016	18-Feb-16	16		159.3			2523.2		523.4	266.8
2016	18-Feb-16	17		295.7			3078		710.2	461.4
2016	18-Feb-16	18		247.9			3473.3		633	558
2016	18-Feb-16	19		208.6			3196.7		473.2	414.7
2016	18-Feb-16	20		449.6			3252.4		480.7	289.5
2016	18-Feb-16	21		352			3420.5		475.2	221.6
2016	18-Feb-16	22		262.2			3208.4		373.2	228.7
2016	18-Feb-16	23		292.4			2684.1		455.1	230.8
2016	19-Feb-16	0		512.3			2486.4		499.5	231.1
2016	19-Feb-16	1		504.6			2575.7		504.5	230.5
2016	19-Feb-16	2		511.9			2603.3		513.2	229.6
2016	19-Feb-16	3		546.3			2792.3		516.6	230.8
2016	19-Feb-16	4		576.6			2904.4		523.8	234.5
2016	19-Feb-16	5		930.2			3137.1		611.1	275.5
2016	19-Feb-16	6		1545.2			3781		657.6	447.3
2016	19-Feb-16	7		1117			3996.7		605	477.8
2016	19-Feb-16	8		1127.5			4015.3		606.8	495.8
2016	19-Feb-16	9		956.1			3965.5		566.4	418.7
2016	19-Feb-16	10		388.7			3722.9		515	234.6
2016	19-Feb-16	11		217.5			3577.5		505.2	224.7
2016	19-Feb-16	12		171.5			3290.1		512.8	224.2
2016	19-Feb-16	13		115.6			2870.8		500	226.2
2016	19-Feb-16	14		111.3			2538.2		469.6	216.4
2016	19-Feb-16	15		197.6			2472.9		468.2	226.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	19-Feb-16	16		254.2			2449.4		498.5	227.2
2016	19-Feb-16	17		322.4		0	2645		480.6	235.6
2016	19-Feb-16	18		334.6		0	3103.5		483.8	237.5
2016	19-Feb-16	19		311.2		0	3499.6		502.5	231.2
2016	19-Feb-16	20		342.1		0	3702.7		497.6	220.2
2016	19-Feb-16	21		296.2		0	3664.6		540.5	227.7
2016	19-Feb-16	22		232.3		0	3247.9		486.9	225.4
2016	19-Feb-16	23		282.3		0	2835.4		495.8	229.1
2016	20-Feb-16	0		529.9		0	2430.1		481.3	224.9
2016	20-Feb-16	1		519.5		0	1601.3		479.8	226.9
2016	20-Feb-16	2		488.9		0	183.352		482.2	242.6
2016	20-Feb-16	3		522.1		0			480.9	282.7
2016	20-Feb-16	4		522.4		0			484.9	294.8
2016	20-Feb-16	5		507.8		0			480.9	293.3
2016	20-Feb-16	6		545.2		0			359.5	341.6
2016	20-Feb-16	7		622.2		0			325.1	459.1
2016	20-Feb-16	8		586.5		0			94.9	326.4
2016	20-Feb-16	9		587.3		0			17.625	23.851
2016	20-Feb-16	10		507.7		0				
2016	20-Feb-16	11		543.2						
2016	20-Feb-16	12		530.5						
2016	20-Feb-16	13		519.2						
2016	20-Feb-16	14		514.2						
2016	20-Feb-16	15		518.2						
2016	20-Feb-16	16		529.6						
2016	20-Feb-16	17		522						
2016	20-Feb-16	18		515.9						
2016	20-Feb-16	19		508.9						
2016	20-Feb-16	20		512.8						
2016	20-Feb-16	21	0	545.3						
2016	20-Feb-16	22	0	548.4						
2016	20-Feb-16	23	0	548.3						
2016	21-Feb-16	0	0	500.8						
2016	21-Feb-16	1	0	527.4						
2016	21-Feb-16	2	0	545.4						
2016	21-Feb-16	3	0	516.8						
2016	21-Feb-16	4	0	544.7						
2016	21-Feb-16	5	0	664						
2016	21-Feb-16	6	0	618.8						
2016	21-Feb-16	7	0	579.4						
2016	21-Feb-16	8	0	533.3						
2016	21-Feb-16	9	0	558.6						
2016	21-Feb-16	10	0	635						
2016	21-Feb-16	11	0	524.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-Feb-16	12	0	505.4						
2016	21-Feb-16	13	0	528.2						
2016	21-Feb-16	14	0	534.3						
2016	21-Feb-16	15	0	523.3						
2016	21-Feb-16	16	0	527.3						
2016	21-Feb-16	17	0	514.9						
2016	21-Feb-16	18	0	500.1						
2016	21-Feb-16	19	1.3	507.8						
2016	21-Feb-16	20	267.3	534.6						
2016	21-Feb-16	21	1135.3	533.7						
2016	21-Feb-16	22	1133.1	521.6						
2016	21-Feb-16	23	1146	489.9						
2016	22-Feb-16	0	811.2	501.1						
2016	22-Feb-16	1	90.6	492.4						
2016	22-Feb-16	2	322.5	498.1						
2016	22-Feb-16	3	353.1	479.7						
2016	22-Feb-16	4	373.6	486.2						
2016	22-Feb-16	5	173.806	624.3						
2016	22-Feb-16	6		936.5						
2016	22-Feb-16	7		577.2						
2016	22-Feb-16	8		616.5						
2016	22-Feb-16	9		571.1						
2016	22-Feb-16	10		378.2						
2016	22-Feb-16	11		301.4						
2016	22-Feb-16	12		234.6						
2016	22-Feb-16	13		195.9						
2016	22-Feb-16	14	0	198.1						
2016	22-Feb-16	15	0	195.2						
2016	22-Feb-16	16	0	194.7						
2016	22-Feb-16	17	0	191.8						
2016	22-Feb-16	18	10	189.4						
2016	22-Feb-16	19	23.4	199.6						
2016	22-Feb-16	20	104.5	195.9						
2016	22-Feb-16	21	145.7	189						
2016	22-Feb-16	22	248.7	189.9						
2016	22-Feb-16	23	731.3	187.8						
2016	23-Feb-16	0	426.1	193.4						
2016	23-Feb-16	1	372.4	211.8						
2016	23-Feb-16	2	357.5	201.6						
2016	23-Feb-16	3	382.7	197.7						
2016	23-Feb-16	4	355.8	205.5						
2016	23-Feb-16	5	385.8	336.8						
2016	23-Feb-16	6	730.5	226						
2016	23-Feb-16	7	860.8	289.9						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-Feb-16	8	647.2	197.5						
2016	23-Feb-16	9	416.4	201.4						
2016	23-Feb-16	10	293.7	217.2						
2016	23-Feb-16	11	274.1	541.4						
2016	23-Feb-16	12	577.9	532.9						
2016	23-Feb-16	13	580.5	473.2						
2016	23-Feb-16	14	551.3	444.7						
2016	23-Feb-16	15	594.8	426.9						
2016	23-Feb-16	16	571.9	402.6						
2016	23-Feb-16	17	695.5	467.1						
2016	23-Feb-16	18	843.1	567.7						
2016	23-Feb-16	19	760.1	556.6						
2016	23-Feb-16	20	517.7	453						
2016	23-Feb-16	21	97.736	467.2						
2016	23-Feb-16	22		455.1						
2016	23-Feb-16	23		455						
2016	24-Feb-16	0		449.5						
2016	24-Feb-16	1		438.1						
2016	24-Feb-16	2		452.4						
2016	24-Feb-16	3		492.4						
2016	24-Feb-16	4		469.3						
2016	24-Feb-16	5		430						
2016	24-Feb-16	6		521.6						
2016	24-Feb-16	7		547.6						
2016	24-Feb-16	8		473.9						
2016	24-Feb-16	9		458.6						
2016	24-Feb-16	10		442.4						
2016	24-Feb-16	11		437.5						
2016	24-Feb-16	12		445.6						
2016	24-Feb-16	13		439.9						
2016	24-Feb-16	14		446.6						
2016	24-Feb-16	15		444.8						
2016	24-Feb-16	16		459.1						
2016	24-Feb-16	17		443.6						
2016	24-Feb-16	18		479						
2016	24-Feb-16	19		508.3						
2016	24-Feb-16	20		554.9						
2016	24-Feb-16	21		511.5						
2016	24-Feb-16	22		597.2						
2016	24-Feb-16	23		439						
2016	25-Feb-16	0		462.2						
2016	25-Feb-16	1		512.8						
2016	25-Feb-16	2		507.7						
2016	25-Feb-16	3		489.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	25-Feb-16	4		475.4						
2016	25-Feb-16	5		1157.5						
2016	25-Feb-16	6		527.3						
2016	25-Feb-16	7		1121.9						
2016	25-Feb-16	8		1210.8						
2016	25-Feb-16	9		896.7						
2016	25-Feb-16	10		1813.2						
2016	25-Feb-16	11		1123.4						
2016	25-Feb-16	12		1174.2						
2016	25-Feb-16	13		1132.9						
2016	25-Feb-16	14		1212.6						
2016	25-Feb-16	15		988.6						
2016	25-Feb-16	16		1281.1						
2016	25-Feb-16	17		1383.9						
2016	25-Feb-16	18		1385.5	0.021					
2016	25-Feb-16	19		1205.5	0.067					
2016	25-Feb-16	20		1420.1	0.067					
2016	25-Feb-16	21		1350.9	0.067					
2016	25-Feb-16	22		1112.9	0.067					
2016	25-Feb-16	23		1189.1	0.067					
2016	26-Feb-16	0		747.1	0.085					
2016	26-Feb-16	1		324.3	0.09					
2016	26-Feb-16	2		194.4	0.092					
2016	26-Feb-16	3		145.3	0.092					
2016	26-Feb-16	4		122	0.09					
2016	26-Feb-16	5		228.1	0.08					
2016	26-Feb-16	6		617.3	0.079					
2016	26-Feb-16	7		1339.9	0.079					
2016	26-Feb-16	8		1354.4	0.079					
2016	26-Feb-16	9		1328.2	0.079					
2016	26-Feb-16	10		1224.2	0.087					
2016	26-Feb-16	11		1292.9	0.088					
2016	26-Feb-16	12		1487	0.088					
2016	26-Feb-16	13		1573	0.088					
2016	26-Feb-16	14		1544.6	0.088					
2016	26-Feb-16	15		1518.8	0.088					
2016	26-Feb-16	16		1511.1	0.088					
2016	26-Feb-16	17		1491.8	0.088					
2016	26-Feb-16	18		1382	0.082					
2016	26-Feb-16	19		1246.2	0.08					
2016	26-Feb-16	20		966.3	0.08					
2016	26-Feb-16	21		1302.4	0.08					
2016	26-Feb-16	22		1339	0.08					
2016	26-Feb-16	23		1335.8	0.08					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	27-Feb-16	0		1272.7	0.079					
2016	27-Feb-16	1		846.4	0.079					
2016	27-Feb-16	2		795.9	0.088					
2016	27-Feb-16	3		659.8	0.082					
2016	27-Feb-16	4		507.6	0.08					
2016	27-Feb-16	5		1102.8	0.08					
2016	27-Feb-16	6		1219.2	0.084					
2016	27-Feb-16	7		1334.8	0.083					
2016	27-Feb-16	8		1261.9	0.08					
2016	27-Feb-16	9		942.2	0.08					
2016	27-Feb-16	10		680.9	0.08					
2016	27-Feb-16	11		467.2	0.08					
2016	27-Feb-16	12		317.7	0.08					
2016	27-Feb-16	13		229.8	0.08					
2016	27-Feb-16	14		180.7	0.08					
2016	27-Feb-16	15		132.5	0.08					
2016	27-Feb-16	16		108	0.079					
2016	27-Feb-16	17		106.3	0.079					
2016	27-Feb-16	18		141.6	0.079					
2016	27-Feb-16	19		269.4	0.079					
2016	27-Feb-16	20		258.5	0.079					
2016	27-Feb-16	21		255.4	0.079					
2016	27-Feb-16	22		249.2	0.079					
2016	27-Feb-16	23		232.8	0.067					
2016	28-Feb-16	0		216.8	0.067					
2016	28-Feb-16	1		215.9	0.067					
2016	28-Feb-16	2		238.9	0.067					
2016	28-Feb-16	3		205.9	0.067					
2016	28-Feb-16	4		180.7	0.079					
2016	28-Feb-16	5		180.1	0.079					
2016	28-Feb-16	6		244.8	0.079					
2016	28-Feb-16	7		340	0.079					
2016	28-Feb-16	8		221.9	0.069					
2016	28-Feb-16	9		216.8	0.066					
2016	28-Feb-16	10		211.1	0.075					
2016	28-Feb-16	11		238.4	0.079					
2016	28-Feb-16	12		240	0.075					
2016	28-Feb-16	13		233.3	0.066					
2016	28-Feb-16	14		227.2	0.066					
2016	28-Feb-16	15		215.5	0.085					
2016	28-Feb-16	16		217.6	0.087					
2016	28-Feb-16	17		217.3	0.084		0			
2016	28-Feb-16	18		231.2	0.079		0			
2016	28-Feb-16	19		208.4	0.081		81.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-Feb-16	20		220.1	0.087		380.8			
2016	28-Feb-16	21		335	0.08		369.3			
2016	28-Feb-16	22		300	0.078		213.3			
2016	28-Feb-16	23		215.7	0.085		216.4			
2016	29-Feb-16	0		220.5	0.087		218			
2016	29-Feb-16	1		377.4	0.079		240			
2016	29-Feb-16	2		494.4	0.079		459.4			
2016	29-Feb-16	3		356.6	0.079		755.6			
2016	29-Feb-16	4		234.8	0.085		974.1			
2016	29-Feb-16	5		988.9	0.087		637			
2016	29-Feb-16	6		1202.2	0.079		620.8			
2016	29-Feb-16	7		2311.3	0.078		601.3			
2016	29-Feb-16	8		1181.7	0.084		1043.1			
2016	29-Feb-16	9		652.7	0.076		1896.3			
2016	29-Feb-16	10		374.8	0.039		2255.4			
2016	29-Feb-16	11		241.1	0.026		2612.2			
2016	29-Feb-16	12		171.9			2913.2			
2016	29-Feb-16	13		164.3			2454.9			
2016	29-Feb-16	14		267.1			2334			
2016	29-Feb-16	15		263.8			2386.4			
2016	29-Feb-16	16		607.4			2265.5			
2016	29-Feb-16	17		612.6			2240.6			
2016	29-Feb-16	18		618.6			2325.9			
2016	29-Feb-16	19		611.3			2254			
2016	29-Feb-16	20		576.5			2206.9			
2016	29-Feb-16	21		577			2239.3			
2016	29-Feb-16	22		588.7			2215.4			
2016	29-Feb-16	23		596.3			2230.1			
2016	1-Mar-16	0		697			2554.3			
2016	1-Mar-16	1		908.4			2753.7			
2016	1-Mar-16	2		736.1			2774.8			
2016	1-Mar-16	3		725.9			2616.9			
2016	1-Mar-16	4		713.1			2667.2			
2016	1-Mar-16	5		1055.7			2664.9			
2016	1-Mar-16	6		1119.7			2785.2			
2016	1-Mar-16	7		1375.4			3087			
2016	1-Mar-16	8		1426.2			3294.3			
2016	1-Mar-16	9		1422.2			3292.7			
2016	1-Mar-16	10		580.2			3269.8			
2016	1-Mar-16	11		378.3			3205.7			
2016	1-Mar-16	12		537.9			3140.7			
2016	1-Mar-16	13		444.5			3114.6			
2016	1-Mar-16	14		274.5			3117.6			
2016	1-Mar-16	15		239.3			3046.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-Mar-16	16		247.3			3084.5			
2016	1-Mar-16	17		254.4			3097.3			
2016	1-Mar-16	18		298.8			3206.1			
2016	1-Mar-16	19		353.6	0.002		3390.3			
2016	1-Mar-16	20		271.7	0.066		3185.9			
2016	1-Mar-16	21		240.1	0.068		2916.9			
2016	1-Mar-16	22		221.8	0.068		2445.3			
2016	1-Mar-16	23		220.7	0.076		2264.3			
2016	2-Mar-16	0	0	197.4	0.086		2390.1			
2016	2-Mar-16	1	0	207.9	11.642		2180.1			
2016	2-Mar-16	2	0	313.8	10.892		2197.2			
2016	2-Mar-16	3	0	619.1	44.878		2646.4			
2016	2-Mar-16	4	0	915.2	137.542		3180.1			
2016	2-Mar-16	5	0	1714.5	247.739		3407.9			
2016	2-Mar-16	6	0	1596.8	325.507		3469.4			
2016	2-Mar-16	7	0	1632.2	645		3517.3			
2016	2-Mar-16	8	0	1621.5	811.2		3488.9			
2016	2-Mar-16	9	0	1572	811.4		3501.6		0	
2016	2-Mar-16	10	0	1255.3	815.6		3344.5		0.5	
2016	2-Mar-16	11	0	644.4	641.1		2933.6		0	
2016	2-Mar-16	12	0	595	368.7		2778.8		0	
2016	2-Mar-16	13	0	464.7	301.2		2961		3.3	
2016	2-Mar-16	14	0	453.4	295.3		2921.8		17.8	
2016	2-Mar-16	15	0	462	293.8		2720.7		33.1	
2016	2-Mar-16	16	0	324.9	293.3		2395.6		39.1	
2016	2-Mar-16	17	0	226.5	293.6		1998.6		37.2	0
2016	2-Mar-16	18	0	460.9	293.1		2162.8		37.4	1.2
2016	2-Mar-16	19	0	525.7	298.7		2780.7		39	0
2016	2-Mar-16	20	0	547.9	401.9		3339.6		41.4	0
2016	2-Mar-16	21	0	609.9	651.5		3395.5		43.1	0
2016	2-Mar-16	22	4.6	1177.4	775.3		3411.7		41	0
2016	2-Mar-16	23	27.4	1273.6	780.9		3397.8		38	1.3
2016	3-Mar-16	0	39.2	1638.6	740.3		3229		36.4	2.5
2016	3-Mar-16	1	85.3	1621.6	653.9		2903.2		41.1	0
2016	3-Mar-16	2	220.6	1529.6	426.6		2471.1		46.2	0
2016	3-Mar-16	3	271.7	1116.3	304.8		2186.8		43.1	0.1
2016	3-Mar-16	4	782.1	784.2	300.3		2557.6		38.9	2.3
2016	3-Mar-16	5	447.6	561.7	299.9		2912		64	1.6
2016	3-Mar-16	6	551.1	441.7	309.7		3151.7		56.7	1.2
2016	3-Mar-16	7	759.6	1250.4	338.3		3266		62.5	3.9
2016	3-Mar-16	8	865.9	629.8	359.9		3204.3		103.2	30.8
2016	3-Mar-16	9	1087.8	418.5	321.7		3086.1		192.6	89
2016	3-Mar-16	10	489.4	403	319.5		3082.4		322.1	110.9
2016	3-Mar-16	11	342	404.1	317.1		3350.4		154.44	119.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	3-Mar-16	12	408.4	367.9	317.4		3328.6			109.4
2016	3-Mar-16	13	314	312.7	318		3195.5			111
2016	3-Mar-16	14	169.4	229.3	316.7		2691.6			119.3
2016	3-Mar-16	15	131.5	194.9	313.9		2132.4			106.3
2016	3-Mar-16	16	144.2	215.6	313.6		2378.7			62.8
2016	3-Mar-16	17	175.4	209	312.9		2836.2			50.5
2016	3-Mar-16	18	176.8	160.9	313.2		3225.5			18.144
2016	3-Mar-16	19	199.9	156.7	313.4		3246.2			
2016	3-Mar-16	20	285.6	225.8	313.2		3215.9			
2016	3-Mar-16	21	548.6	1008	314.2		3190.4			
2016	3-Mar-16	22	868.6	1027.5	316.1		2731.7			
2016	3-Mar-16	23	738.1	693.7	316.208		2448.4			
2016	4-Mar-16	0	669.5	642.8	139.862		2272.9			
2016	4-Mar-16	1	489.8	334.5	0.054		2256.7			
2016	4-Mar-16	2	411.7	298.1	0.055		2204.5			
2016	4-Mar-16	3	412.2	316	0.055		2303.5			
2016	4-Mar-16	4	415.5	320.1	0.055		2788.7			
2016	4-Mar-16	5	409.2	696.6	0.055		3347.2			
2016	4-Mar-16	6	423.9	410.6	0.055		3663			
2016	4-Mar-16	7	549	536.7	0.055		3724.9			
2016	4-Mar-16	8	497	456.7	0.055		3771.8			
2016	4-Mar-16	9	630.3	598	0.055		3721.9			
2016	4-Mar-16	10	634	672.1	0.031		3760.2			
2016	4-Mar-16	11	617.7	670.5			3759.7			
2016	4-Mar-16	12	477.7	537.3			3743.4			
2016	4-Mar-16	13	395.9	387.4			3573.4			
2016	4-Mar-16	14	395.4	374.7			3438.5			
2016	4-Mar-16	15	413.8	356.9			3383.3			
2016	4-Mar-16	16	469.2	459.9			3178.2			
2016	4-Mar-16	17	396.1	371.9			3105			
2016	4-Mar-16	18	392.8	381			3041			
2016	4-Mar-16	19	296.9	386.1			3010.8			
2016	4-Mar-16	20	168.6	579.1			3594.6			
2016	4-Mar-16	21	155.7	957.1			3785.5			
2016	4-Mar-16	22	235.7	1245.7			3559.6	0.045		
2016	4-Mar-16	23	155.1	1579.6			3220	0.091		
2016	5-Mar-16	0	80.7	1648.6			2932.1	0.119		
2016	5-Mar-16	1	47.2	1527.1			2644.5	0.12		
2016	5-Mar-16	2	109.7	1044.7			2830.1	0.109		
2016	5-Mar-16	3	407.8	890.9			2687	0.109		
2016	5-Mar-16	4	794.5	595.6			2501.3	0.109		
2016	5-Mar-16	5	1561.5	341.5			2509.8	0.109		
2016	5-Mar-16	6	1307.6	400.3			2641.1	0.109		
2016	5-Mar-16	7	827.1	427.1			2951.6	0.109		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	5-Mar-16	8	835.4	507.2			3480.7	0.109		
2016	5-Mar-16	9	778.6	484.4			3747.1	0.109		
2016	5-Mar-16	10	635.8	440.1			3759	0.109		
2016	5-Mar-16	11	532.5	386.1			3698.5	0.109		
2016	5-Mar-16	12	391.7	309.1			3517.8	0.109		
2016	5-Mar-16	13	389.6	238.1			3174.5	0.089		
2016	5-Mar-16	14	367.7	282.4			3198.1			
2016	5-Mar-16	15	303.2	214.4			3186.4			
2016	5-Mar-16	16	250.5	198.4			3168.4			
2016	5-Mar-16	17	301.1	347.5			3228.5			
2016	5-Mar-16	18	575.5	549.8			3508.1			
2016	5-Mar-16	19	814.9	943.6			3982.4			
2016	5-Mar-16	20	866.2	1032.1			4054.9			
2016	5-Mar-16	21	833.4	1003.5			3940.7			
2016	5-Mar-16	22	836.4	991			3619.6			
2016	5-Mar-16	23	681.7	729			3133.7			
2016	6-Mar-16	0	343.3	848.5			2731.9			
2016	6-Mar-16	1	303.3	609.1			2529.9			
2016	6-Mar-16	2	249.1	305.5			2515			
2016	6-Mar-16	3	237.4	369.9			2517			
2016	6-Mar-16	4	447	333.8			2847.5			
2016	6-Mar-16	5	374.6	563			2792			
2016	6-Mar-16	6	598.2	530.1			3102.8			
2016	6-Mar-16	7	1266.2	1073.4			3383.8			
2016	6-Mar-16	8	1367.1	1449.1			3382.7			
2016	6-Mar-16	9	836.9	1117.5			3399.1			
2016	6-Mar-16	10	828.7	1129.4			3209.9			
2016	6-Mar-16	11	650.1	1169.1			2695.4			
2016	6-Mar-16	12	588.6	1241.8			2518.2			
2016	6-Mar-16	13	668.2	1217.5			2482			
2016	6-Mar-16	14	757.3	1191.6			2491.1			
2016	6-Mar-16	15	837.8	1253.2			2480.5			
2016	6-Mar-16	16	851	1279.9			2459.9			
2016	6-Mar-16	17	891.7	1365			2488.5			
2016	6-Mar-16	18	993.8	1431.6			2612.3			
2016	6-Mar-16	19	1001.8	1463.4			3107.8			
2016	6-Mar-16	20	1003.9	1360.6			3072.5			
2016	6-Mar-16	21	924.7	1266.9			2666.2			
2016	6-Mar-16	22	776.9	1178.6			2552.9			
2016	6-Mar-16	23	785.6	1178.7			2564.9			
2016	7-Mar-16	0	599.3	1029.5			2608.1			
2016	7-Mar-16	1	461.9	873.9			2531.5			
2016	7-Mar-16	2	409.2	1122.2			2540.1			
2016	7-Mar-16	3	441.5	750.6			2744.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	7-Mar-16	4	432.1	589.1			2672.3			
2016	7-Mar-16	5	556.7	1072.7			3273.1			
2016	7-Mar-16	6	947.5	1621.5			3920.5			
2016	7-Mar-16	7	1088.9	2011.8			4140.1			
2016	7-Mar-16	8	1121.9	1975			3667.5			
2016	7-Mar-16	9	1123.7	1972.1			3460.6			
2016	7-Mar-16	10	1001.3	1946.1			3519.4			
2016	7-Mar-16	11	760.6	1298.5			3621.4			
2016	7-Mar-16	12	660.1	768.4			3537.3			
2016	7-Mar-16	13	567.2	433.6			3602.7			
2016	7-Mar-16	14	494	332.2			3721.6			
2016	7-Mar-16	15	490.2	258.2			3603.1			
2016	7-Mar-16	16	458.2	235.4			3200.3			
2016	7-Mar-16	17	468.2	213.5			3627.4			
2016	7-Mar-16	18	402.6	222.4			3891.2			
2016	7-Mar-16	19	418.5	201.6			3928.9			
2016	7-Mar-16	20	459.5	250.5			3880.8			
2016	7-Mar-16	21	898.8	231.5			3839.2			
2016	7-Mar-16	22	851	196			3406.1			
2016	7-Mar-16	23	913.6	188.4			2875.4			
2016	8-Mar-16	0	873.1	192.3			2580.4			
2016	8-Mar-16	1	928.2	193.4			2558.9			
2016	8-Mar-16	2	900	187.6			2578.4			
2016	8-Mar-16	3	949.3	187.6			3115.5			
2016	8-Mar-16	4	946.8	181.9			4056.1			
2016	8-Mar-16	5	985.9	211.1			4168.7			
2016	8-Mar-16	6	957.9	191.4			4092.8			
2016	8-Mar-16	7	994.5	205.4			3953.3			
2016	8-Mar-16	8	1001.6	203			3890.3			
2016	8-Mar-16	9	862.4	226			3950.5			
2016	8-Mar-16	10	542.3	269.1			4051.4			
2016	8-Mar-16	11	462	245.6			3836.9			
2016	8-Mar-16	12	590.5	281.1			3704.4			
2016	8-Mar-16	13	485.1	232.8			3120.8			
2016	8-Mar-16	14	419.5	254.7			2740.7			
2016	8-Mar-16	15	409.5	210.6			2466.9			
2016	8-Mar-16	16	397.8	208.5			2595.2			
2016	8-Mar-16	17	397.9	213.7			2589.8			
2016	8-Mar-16	18	430.5	228.6			2612.6			
2016	8-Mar-16	19	463.7	215.2			2602.7			
2016	8-Mar-16	20	469.7	326			2606.3			
2016	8-Mar-16	21	427.3	550.4			2617.4			
2016	8-Mar-16	22	428.7	567.9			2636.5			
2016	8-Mar-16	23	421.6	622.4			2621.9			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	9-Mar-16	0	408.8	575.6			2508			
2016	9-Mar-16	1	427.2	596.2			2493.9			
2016	9-Mar-16	2	432.9	608.5			2489.4			
2016	9-Mar-16	3	439.1	480.8			2489.2			
2016	9-Mar-16	4	504.7	463.1			2518.8			
2016	9-Mar-16	5	509.3	450.7			2521.1			
2016	9-Mar-16	6	497.1	349.7			2529.2			
2016	9-Mar-16	7	480.4	323			2523.5			
2016	9-Mar-16	8	501.8	247.5			2471.3			
2016	9-Mar-16	9	516.5	239.4			2179.3			
2016	9-Mar-16	10	525.7	238.4			2164.4			
2016	9-Mar-16	11	532.2	231.7			2146.2			
2016	9-Mar-16	12	532.8	232			2044.7			
2016	9-Mar-16	13	548.6	233.8			2200.6			
2016	9-Mar-16	14	718.5	264.7			2595.7			
2016	9-Mar-16	15	661.7	303.2			2587.1			
2016	9-Mar-16	16	1057.8	700.3			2467.7			
2016	9-Mar-16	17	791.5	804			2444.8			
2016	9-Mar-16	18	836.3	707			2563.8			
2016	9-Mar-16	19	927.7	847			2666.1			
2016	9-Mar-16	20	1176.6	1071.2			2968			
2016	9-Mar-16	21	1283.6	1180			2967.7			
2016	9-Mar-16	22	1258.1	1294.1			2547.9			
2016	9-Mar-16	23	899.3	1066.8			2438.4			
2016	10-Mar-16	0	665.6	808.5			2427.7			
2016	10-Mar-16	1	631.1	621.4			2442.3			
2016	10-Mar-16	2	642.2	753.4			2456.7			
2016	10-Mar-16	3	160.952	517.4			2926.5			
2016	10-Mar-16	4		495.6			3836.2			
2016	10-Mar-16	5		1478.6			3913.8			
2016	10-Mar-16	6		1692.5			3874.6			
2016	10-Mar-16	7		2109.3			3728.6			
2016	10-Mar-16	8		2231.3			3702.9			
2016	10-Mar-16	9		2182.9			3719.2			
2016	10-Mar-16	10		1979			3715.3			
2016	10-Mar-16	11		1607.1			3679.1			
2016	10-Mar-16	12		1251.7			3682.6			
2016	10-Mar-16	13		924.2			3667.5			
2016	10-Mar-16	14		1072.5			3698.6			
2016	10-Mar-16	15		1835.3			3738.5			
2016	10-Mar-16	16		1221.8			3691			
2016	10-Mar-16	17		1190.3			3850.9			
2016	10-Mar-16	18		1120.7			3731.7			
2016	10-Mar-16	19		1191.7			3412.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-Mar-16	20		1158.7			3060.9			
2016	10-Mar-16	21		1053			3219.8			
2016	10-Mar-16	22		833.5			2904.7			
2016	10-Mar-16	23		567.2			2520.2			
2016	11-Mar-16	0		457.9			2479.4			
2016	11-Mar-16	1		352.3			2439.8			
2016	11-Mar-16	2		426			2422.5			
2016	11-Mar-16	3		429			2411.9			
2016	11-Mar-16	4		543.1			2546.4			
2016	11-Mar-16	5		1037			3139.3			
2016	11-Mar-16	6		1762.2			3715.2			
2016	11-Mar-16	7		2345.6			4070.7			
2016	11-Mar-16	8		2290.8			4097.7			
2016	11-Mar-16	9		2023.8			3639.3			
2016	11-Mar-16	10		2305.4			3711.7			
2016	11-Mar-16	11		2368.8			3965.2			
2016	11-Mar-16	12		1894.9			3815.2			
2016	11-Mar-16	13		1552.4			3487.9			
2016	11-Mar-16	14		1030.6			3256.1			
2016	11-Mar-16	15		670.9			2695.1			
2016	11-Mar-16	16		427.5			2493.8			
2016	11-Mar-16	17		353.1			2436.7			
2016	11-Mar-16	18		340.3			2500			
2016	11-Mar-16	19		332.3			2493.6			
2016	11-Mar-16	20		588.2			2489.2			
2016	11-Mar-16	21		506.4			2456.9			
2016	11-Mar-16	22		834.4			2501			
2016	11-Mar-16	23		638.4			2451.2			
2016	12-Mar-16	0		399.7			2466.6			
2016	12-Mar-16	1		170.5			2448.7			
2016	12-Mar-16	2		55.096			2447.3			
2016	12-Mar-16	3					2454			
2016	12-Mar-16	4					2454.2			
2016	12-Mar-16	5					2429.8			
2016	12-Mar-16	6					2432.2			
2016	12-Mar-16	7					2413.7			
2016	12-Mar-16	8					2511.9			
2016	12-Mar-16	9					2588.8			
2016	12-Mar-16	10					2645.2			
2016	12-Mar-16	11					3090.2			
2016	12-Mar-16	12					3641.4			
2016	12-Mar-16	13					3608.2			
2016	12-Mar-16	14					3465.5			
2016	12-Mar-16	15					3268.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-Mar-16	16					3240.9			
2016	12-Mar-16	17					2817.3			
2016	12-Mar-16	18					2548.8			
2016	12-Mar-16	19					2866.6			
2016	12-Mar-16	20					2766			
2016	12-Mar-16	21					2582.3			
2016	12-Mar-16	22					2423.6			
2016	12-Mar-16	23					2388.6			
2016	13-Mar-16	0					2378.7			
2016	13-Mar-16	1					2390.7			
2016	13-Mar-16	2					2385.4			
2016	13-Mar-16	3					2380.4			
2016	13-Mar-16	4					2386.9			
2016	13-Mar-16	5					2386.4			
2016	13-Mar-16	6					2384.2			
2016	13-Mar-16	7					2374.2			
2016	13-Mar-16	8					2376.7			
2016	13-Mar-16	9					2373.7			
2016	13-Mar-16	10					2391.6			
2016	13-Mar-16	11					2389.9			
2016	13-Mar-16	12					2470.6			
2016	13-Mar-16	13					2399.8			
2016	13-Mar-16	14					2398.7			
2016	13-Mar-16	15					2478.3			
2016	13-Mar-16	16					2437.8			
2016	13-Mar-16	17					2720.7			
2016	13-Mar-16	18					2760			
2016	13-Mar-16	19					3130.1			
2016	13-Mar-16	20					3495.4			
2016	13-Mar-16	21					3285.5			
2016	13-Mar-16	22					2919.3			
2016	13-Mar-16	23					2973.6			
2016	14-Mar-16	0					2772.6			
2016	14-Mar-16	1					2429.2			
2016	14-Mar-16	2					2368.5			
2016	14-Mar-16	3					2348.4			
2016	14-Mar-16	4					2587.1			
2016	14-Mar-16	5					3177.9			
2016	14-Mar-16	6		0			3562.9			
2016	14-Mar-16	7		0			3419.6			
2016	14-Mar-16	8		0			3281.9			
2016	14-Mar-16	9		0			2996			
2016	14-Mar-16	10		0			3191.4			
2016	14-Mar-16	11		0			2545.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	14-Mar-16	12		0			2506.4			
2016	14-Mar-16	13		0			2852.4			
2016	14-Mar-16	14	0	0			2853.6			
2016	14-Mar-16	15	0	0			3198.7			
2016	14-Mar-16	16	0	0.9			2692			
2016	14-Mar-16	17	0	5.5			2859.6			
2016	14-Mar-16	18	0	75.6			2526.4			
2016	14-Mar-16	19	0	89.3			2979			
2016	14-Mar-16	20	0	107.9			3044.1			
2016	14-Mar-16	21	0	363.8			2940.4			
2016	14-Mar-16	22	0	346.4			2791.4			
2016	14-Mar-16	23	0	342.6			2437			
2016	15-Mar-16	0	0	911.2			2297.3			
2016	15-Mar-16	1	0	524.7			2110.5			
2016	15-Mar-16	2	0	1261.2			2112.1			
2016	15-Mar-16	3	0	1022.1			2291			
2016	15-Mar-16	4	0	1232.1			2894.8			
2016	15-Mar-16	5	0	1165.3			3280.3			
2016	15-Mar-16	6	0	1521			3405.2			
2016	15-Mar-16	7	0	2667			2640.3			
2016	15-Mar-16	8	0	2402.3			2320.6			
2016	15-Mar-16	9	0	2058.9			1985.7			
2016	15-Mar-16	10	0	1251.4			1777			
2016	15-Mar-16	11	26.3	1628.8			1723.1			
2016	15-Mar-16	12	87.1	1620.1			1709.5			
2016	15-Mar-16	13	368.9	1703.6			1944.3			
2016	15-Mar-16	14	341.1	1637.3			2112.2			
2016	15-Mar-16	15	600.6	1556.3			2255			
2016	15-Mar-16	16	486.3	1628.8			2406.7			
2016	15-Mar-16	17	352.5	876			2882.1			
2016	15-Mar-16	18	326.7	901			3124.1			
2016	15-Mar-16	19	421.5	896.4			3083.2			
2016	15-Mar-16	20	528.9	926			3041.5			
2016	15-Mar-16	21	876.2	931.2			2832.5			
2016	15-Mar-16	22	765.2	860.2			2341.9			
2016	15-Mar-16	23	468.8	515			2060.1			
2016	16-Mar-16	0	708.5	306.1			2030.8			
2016	16-Mar-16	1	914.6	487.1			2003.9			
2016	16-Mar-16	2	2362.2	366.3			2068			
2016	16-Mar-16	3	3085	490.5			2147.9			
2016	16-Mar-16	4	3046.3	929.2			2107.8			
2016	16-Mar-16	5	2982.8	1139.2			2247.4			
2016	16-Mar-16	6	2927	905.4			2157.1			
2016	16-Mar-16	7	2626.2	1060.4			2027.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	16-Mar-16	8	2676.1	805.6			2015.5			
2016	16-Mar-16	9	2756.5	567.4			1989.8			
2016	16-Mar-16	10	2587.1	397.3			1977.8			
2016	16-Mar-16	11	1981.7	305.5			1981.7			
2016	16-Mar-16	12	1482.7	230.2			2026.2			
2016	16-Mar-16	13	1194.3	369.7			1788.1			
2016	16-Mar-16	14	1028.8	338.1			1656.3			
2016	16-Mar-16	15	669.8	268.5			1788.1			
2016	16-Mar-16	16	604.4	267.5			1815.1			
2016	16-Mar-16	17	548.8	287.5			1578.4			
2016	16-Mar-16	18	506.4	292.4			2164.1			
2016	16-Mar-16	19	545.9	341.1			2522			
2016	16-Mar-16	20	410.9	264.9			2252.9			
2016	16-Mar-16	21	321.1	264.7			2154.1			
2016	16-Mar-16	22	341.7	276.2			2146.9			
2016	16-Mar-16	23	351.1	315.7			2454.3			
2016	17-Mar-16	0	389.1	48.306			2883			
2016	17-Mar-16	1	397.8				3259.4			
2016	17-Mar-16	2	388.3				3514.2			
2016	17-Mar-16	3	400.2				3693.3			
2016	17-Mar-16	4	353.3				3632.6			
2016	17-Mar-16	5	819.8				3765.1			
2016	17-Mar-16	6	1604.9				3766.4			
2016	17-Mar-16	7	1342				3872.4			
2016	17-Mar-16	8	640.6				3795.4			
2016	17-Mar-16	9	801.2				3752.1			
2016	17-Mar-16	10	781.1				3701.3			
2016	17-Mar-16	11	770.2				3435.3			
2016	17-Mar-16	12	546.9				3215.7			
2016	17-Mar-16	13	444.8				2915.6			
2016	17-Mar-16	14	357.7				2616.8			
2016	17-Mar-16	15	365.7				2469.6			
2016	17-Mar-16	16	242.7				2286.3			
2016	17-Mar-16	17	244.5				2282.3			
2016	17-Mar-16	18	217.5				2313.7			
2016	17-Mar-16	19	335.8				2742.5			
2016	17-Mar-16	20	547.2				3387.2			
2016	17-Mar-16	21	831.8				3746.5			
2016	17-Mar-16	22	872.2				3697.3			
2016	17-Mar-16	23	757				3480.8			
2016	18-Mar-16	0	723.4				2947.7			
2016	18-Mar-16	1	1072.6				2465.8			
2016	18-Mar-16	2	595.3				2314.9			
2016	18-Mar-16	3	569.7				2306.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	18-Mar-16	4	963.6				2309.4			
2016	18-Mar-16	5	1252.5				2597.6			
2016	18-Mar-16	6	1373.6				3136.4			
2016	18-Mar-16	7	1443.9				3566.1			
2016	18-Mar-16	8	1288.7				3872.1			
2016	18-Mar-16	9	637.6				3717.5			
2016	18-Mar-16	10	451.9				3391.5			
2016	18-Mar-16	11	465.3	0			3027.4			
2016	18-Mar-16	12	611.5	0			2836.1			
2016	18-Mar-16	13	554	0			2864			
2016	18-Mar-16	14	451.4	0			2798.6			
2016	18-Mar-16	15	448.8	0			2411.9			
2016	18-Mar-16	16	485.1	0			1813.3			
2016	18-Mar-16	17	681.8	0			2258			
2016	18-Mar-16	18	943.5	4.6			2838.4			
2016	18-Mar-16	19	1002.8	65.4			3867.4			
2016	18-Mar-16	20	729.3	101.3			3750.5			
2016	18-Mar-16	21	455.5	127.6			3372.5			
2016	18-Mar-16	22	253.8	177.3			2880.9			
2016	18-Mar-16	23	216.4	283.2			2438.6			
2016	19-Mar-16	0	171.8	728.7			2330.6			
2016	19-Mar-16	1	161.6	1056.4			2325.6			
2016	19-Mar-16	2	115.1	1114.7			2302.2			
2016	19-Mar-16	3	111.3	436.9			2312.3			
2016	19-Mar-16	4	112.3	356.2			2315.7			
2016	19-Mar-16	5	321.9	260.2			2307.4			
2016	19-Mar-16	6	289.2	249.8			2310.4			
2016	19-Mar-16	7	293.7	277.7			2331.9			
2016	19-Mar-16	8	286.5	242.6			2180.3			
2016	19-Mar-16	9	341.1	291.9	0.025		2006			
2016	19-Mar-16	10	324.1	276.8	0.067		2272.8			
2016	19-Mar-16	11	309.4	266.4	0.067		2496.1			
2016	19-Mar-16	12	273.3	237.8	0.067		2253.2			
2016	19-Mar-16	13	289.5	209.2	0.067		2066.2			
2016	19-Mar-16	14	290	207.1	0.086		2071.5			
2016	19-Mar-16	15	284.8	205.6	0.093		2199.9			
2016	19-Mar-16	16	284.5	235.8	0.088		2388.5			
2016	19-Mar-16	17	480.9	328.7	0.08		2539.3			
2016	19-Mar-16	18	393.5	229.4	0.08		2265			
2016	19-Mar-16	19	484.4	283.1	0.08		2577.1			
2016	19-Mar-16	20	540.2	347.8	0.08		2904			
2016	19-Mar-16	21	502.7	397.7	0.08		3126.1			
2016	19-Mar-16	22	435.3	331.9	0.08		2978.4			
2016	19-Mar-16	23	389.5	271.2	0.08		2684.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	20-Mar-16	0	311.1	210.7	0.08		2349.3			
2016	20-Mar-16	1	260.8	211.3	0.08		2292			
2016	20-Mar-16	2	258.4	203.8	0.08		2278.3			
2016	20-Mar-16	3	269.6	201.9	0.08		2294.4			
2016	20-Mar-16	4	271.8	202.9	0.08		2291.5			
2016	20-Mar-16	5	284.7	227.4	0.08		2286.1			
2016	20-Mar-16	6	305.3	221.5	0.08		2355.1			
2016	20-Mar-16	7	331.3	268.5	0.082		2667.2			
2016	20-Mar-16	8	460.8	337.9	0.079		2866.7			
2016	20-Mar-16	9	536.5	365	0.079		3070.7			
2016	20-Mar-16	10	459.4	301.1	0.079		2705.5			
2016	20-Mar-16	11	335.4	239.3	0.079		2587			
2016	20-Mar-16	12	363.3	244.5	0.082		2777.1			
2016	20-Mar-16	13	315.6	243.1	0.083		2654.5			
2016	20-Mar-16	14	283.4	235.5	0.079		2443.5			
2016	20-Mar-16	15	304.1	236.2	0.08		2613.3			
2016	20-Mar-16	16	308.1	231.5	0.08		2637.1			
2016	20-Mar-16	17	306.8	234	0.08		2353.1			
2016	20-Mar-16	18	287.5	235.8	0.08		2308.7			
2016	20-Mar-16	19	347.4	251.9	0.08		2534.5			
2016	20-Mar-16	20	354.5	276.8	0.08		2680.8			
2016	20-Mar-16	21	330.3	243.3	0.08		2566.7			
2016	20-Mar-16	22	284.8	234.5	0.08		2332.4			
2016	20-Mar-16	23	326.2	238.9	0.08		2281.9			
2016	21-Mar-16	0	311.1	239.8	0.08		2289.7			
2016	21-Mar-16	1	299.2	236.9	0.08		2281.6			
2016	21-Mar-16	2	316.9	238.3	0.08		2281.2			
2016	21-Mar-16	3	499.8	417	0.08		2292.4			
2016	21-Mar-16	4	1040.3	1478.5	0.08		2282			
2016	21-Mar-16	5	775.2	1147.2	0.073		2247.6			
2016	21-Mar-16	6	871	1313	0.08		2456.8			
2016	21-Mar-16	7	1071.8	1434.5	0.08		2773.9			
2016	21-Mar-16	8	996.7	1046.5	0.08		2804.2			
2016	21-Mar-16	9	789.1	789.9	0.08		2455			
2016	21-Mar-16	10	508.3	589.4	0.08		2319.6			
2016	21-Mar-16	11	307.6	467.6	0.08		2202.8			
2016	21-Mar-16	12	233.3	407.6	0.08		2297.1			
2016	21-Mar-16	13	294.7	586.9	0.08		2671.3			
2016	21-Mar-16	14	232	431.8	0.08		2125.7			
2016	21-Mar-16	15	216.7	359.1	0.08		2266.4			
2016	21-Mar-16	16	193.5	266.3	0.08		2257.3			
2016	21-Mar-16	17	143.6	209.5	0.08		1834.9			
2016	21-Mar-16	18	108.7	167.5	0.08		1960.6			
2016	21-Mar-16	19	311.4	381.7	0.08		2323			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-Mar-16	20	431.6	454.5	0.08		2901.8			
2016	21-Mar-16	21	368.5	418.8	0.07		2805.9			
2016	21-Mar-16	22	421	304.9	0.075		2423.3			
2016	21-Mar-16	23	451.6	238.5	0.079		2302.9			
2016	22-Mar-16	0	327	197.5	0.08		2288.1			
2016	22-Mar-16	1	260.9	184.6	0.08		2276.2			
2016	22-Mar-16	2	256.4	174.7	0.08		2291.4			
2016	22-Mar-16	3	609.3	299.2	0.08		2750.1			
2016	22-Mar-16	4	809.5	500.8	0.072		3381.2			
2016	22-Mar-16	5	774.5	787.8	0.079		3907.3			
2016	22-Mar-16	6	837.5	888.7	0.08		3555.2			
2016	22-Mar-16	7	893.5	1202	0.068		3534.7			
2016	22-Mar-16	8	923.2	921.3	0.01		3547.2			
2016	22-Mar-16	9	596.9	429.5			3473.2			
2016	22-Mar-16	10	357.9	289.3			3327.1			
2016	22-Mar-16	11	376.6	230.1			3365.5			
2016	22-Mar-16	12	257.5	185.4			3515			
2016	22-Mar-16	13	258	144.9			3376.5			
2016	22-Mar-16	14	223.6	114.5			3436.9			
2016	22-Mar-16	15	203.5	115.9			3294.6			
2016	22-Mar-16	16	270.5	309.7			3103.5			
2016	22-Mar-16	17	791.3	726.5			2698.7			
2016	22-Mar-16	18	1127.7	1292.8			2342.5			
2016	22-Mar-16	19	1214	1193.5			2556.9			
2016	22-Mar-16	20	1150.4	841.8			2322.9			
2016	22-Mar-16	21	598.6	469.9			2284.7			
2016	22-Mar-16	22	503.3	381.8			2286.5			
2016	22-Mar-16	23	362.1	433.7			2239.5			
2016	23-Mar-16	0	306.1	308.4			2198.8			
2016	23-Mar-16	1	324.5	230.1			2197.9			
2016	23-Mar-16	2	306.5	242.4			2197.2			
2016	23-Mar-16	3	339	281.9			1893.8			
2016	23-Mar-16	4	808.2	589.4			2012.3			
2016	23-Mar-16	5	962.6	983.9			2072			
2016	23-Mar-16	6	1033.1	780.3			2019.7			
2016	23-Mar-16	7	1088	1114.7			2023.6			
2016	23-Mar-16	8	1066.5	749.1			2002.5			
2016	23-Mar-16	9	1053.9	643.2			1967.1			
2016	23-Mar-16	10	1040.8	432.4			1947.4			
2016	23-Mar-16	11	1066.2	298.3			1984.6			
2016	23-Mar-16	12	1035.7	203.7			2004.3			
2016	23-Mar-16	13	1038.1	179.9			2023.4			
2016	23-Mar-16	14	1061.5	385.2			2161.2			
2016	23-Mar-16	15	927.1	430.9			2163.4			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-Mar-16	16	520.9	441.2	0.014		2068.8			
2016	23-Mar-16	17	406	402.1	0.068		1570.9			
2016	23-Mar-16	18	549.8	593.7	0.067		1666.1			
2016	23-Mar-16	19	741.8	1100	0.067		1876.1			
2016	23-Mar-16	20	536.6	1221.2	0.067		1840.3			
2016	23-Mar-16	21	412.3	1298.4	0.077		1651.6			
2016	23-Mar-16	22	296.8	833.5	0.092		1742.5			
2016	23-Mar-16	23	284.1	302.1	0.092		1609.3			
2016	24-Mar-16	0	293.1	322.1	0.09		12.16			
2016	24-Mar-16	1	282.6	267.5	0.067					
2016	24-Mar-16	2	280.2	250.9	0.067					
2016	24-Mar-16	3	504.2	462.6	0.066					
2016	24-Mar-16	4	946.6	711	0.069					
2016	24-Mar-16	5	780.2	782.3	0.079					
2016	24-Mar-16	6	992.6	952.9	0.055					
2016	24-Mar-16	7	1122.5	1104.9	0.005					
2016	24-Mar-16	8	1155.7	1065.9						
2016	24-Mar-16	9	1206	1006.4						
2016	24-Mar-16	10	1151.5	974.6						
2016	24-Mar-16	11	1139.9	769.4						
2016	24-Mar-16	12	1149.7	764.5						
2016	24-Mar-16	13	1006.7	823.8						
2016	24-Mar-16	14	776.5	622.6						
2016	24-Mar-16	15	594.5	367.4						
2016	24-Mar-16	16	467.2	330.6						
2016	24-Mar-16	17	380.9	319.2						
2016	24-Mar-16	18	844.5	621.6						
2016	24-Mar-16	19	1086.9	988.9						
2016	24-Mar-16	20	1169.4	942.9						
2016	24-Mar-16	21	866.8	609.1						
2016	24-Mar-16	22	462.8	390.2						
2016	24-Mar-16	23	421.1	383.3						
2016	25-Mar-16	0	318.6	342.3						
2016	25-Mar-16	1	320.7	297.1						
2016	25-Mar-16	2	313.2	272.8						
2016	25-Mar-16	3	294.1	398.6						
2016	25-Mar-16	4	710.2	402.7						
2016	25-Mar-16	5	1099.6	1131						
2016	25-Mar-16	6	1217.1	1173.3						
2016	25-Mar-16	7	1216	1074.7						
2016	25-Mar-16	8	1186.1	1184.9						
2016	25-Mar-16	9	1180.2	1129.2						
2016	25-Mar-16	10	866.9	582.5						
2016	25-Mar-16	11	594.2	299.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	25-Mar-16	12	422.4	333						
2016	25-Mar-16	13	300.9	314.2						
2016	25-Mar-16	14	227.9	249.5						
2016	25-Mar-16	15	173.7	261.9						
2016	25-Mar-16	16	127.7	411.7						
2016	25-Mar-16	17	125.2	430.4						
2016	25-Mar-16	18	120.7	429.2						
2016	25-Mar-16	19	147.7	678.9						
2016	25-Mar-16	20	131	731						
2016	25-Mar-16	21	104	364.8						
2016	25-Mar-16	22	100.7	261.3						
2016	25-Mar-16	23	111.3	221						
2016	26-Mar-16	0	105.2	210.8						
2016	26-Mar-16	1	98.8	203.8						
2016	26-Mar-16	2	95.2	198.6						
2016	26-Mar-16	3	93.6	202.5						
2016	26-Mar-16	4	151.1	214.6						
2016	26-Mar-16	5	329.4	305.5						
2016	26-Mar-16	6	700.3	517.8						
2016	26-Mar-16	7	1005.8	714.2						
2016	26-Mar-16	8	1336.8	894.2						
2016	26-Mar-16	9	506.3	661						
2016	26-Mar-16	10	256.7	460.4						
2016	26-Mar-16	11	200.9	411.4						
2016	26-Mar-16	12	133.3	283.7						
2016	26-Mar-16	13	97.9	233.7						
2016	26-Mar-16	14	130.3	358.9						
2016	26-Mar-16	15	241.1	585.6						
2016	26-Mar-16	16	330.5	534.1						
2016	26-Mar-16	17	352.5	583.8						
2016	26-Mar-16	18	312.6	694.8						
2016	26-Mar-16	19	409.2	656.4						
2016	26-Mar-16	20	343.6	538.3						
2016	26-Mar-16	21	341.4	460.9						
2016	26-Mar-16	22	341.6	376.1						
2016	26-Mar-16	23	323.2	294.5						
2016	27-Mar-16	0	322.4	294						
2016	27-Mar-16	1	325.1	287.3						
2016	27-Mar-16	2	320.2	265.9						
2016	27-Mar-16	3	325.4	288.8						
2016	27-Mar-16	4	323.8	270.3						
2016	27-Mar-16	5	324.1	234.7						
2016	27-Mar-16	6	283.4	231.8						
2016	27-Mar-16	7	295.8	240.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	27-Mar-16	8	275	215.5						
2016	27-Mar-16	9	260.7	206.6						
2016	27-Mar-16	10	257	242.9						
2016	27-Mar-16	11	283.1	300.8						
2016	27-Mar-16	12	294.7	342.3						
2016	27-Mar-16	13	376.5	286.9						
2016	27-Mar-16	14	400.1	236.3						
2016	27-Mar-16	15	383.9	230.4						
2016	27-Mar-16	16	359.8	223.3	0.022					
2016	27-Mar-16	17	338.2	264	0.078					
2016	27-Mar-16	18	403.5	332.9	0.088					
2016	27-Mar-16	19	664.7	742.1	0.088					
2016	27-Mar-16	20	742.8	951.7	0.087					
2016	27-Mar-16	21	746.8	536.2	0.088		0			
2016	27-Mar-16	22	585.2	412.8	0.088		0			
2016	27-Mar-16	23	404.9	268.3	0.088		0			
2016	28-Mar-16	0	306.4	229.2	0.086		0			
2016	28-Mar-16	1	311.3	220.9	0.078		0.3			
2016	28-Mar-16	2	295.4	213.1	0.067		51.4			
2016	28-Mar-16	3	353.6	308.9	0.067		134.6			
2016	28-Mar-16	4	556.5	748.7	0.071		173.3			
2016	28-Mar-16	5	460.6	710.2	0.079		297.1			
2016	28-Mar-16	6	999.6	769.6	0.067		320.3			
2016	28-Mar-16	7	1068.9	860.9	0.07		327.8			
2016	28-Mar-16	8	1136.4	923.8	0.087		343.6			
2016	28-Mar-16	9	1134.4	1035.7	0.08		369.4			
2016	28-Mar-16	10	1241.3	1161.9	0.078		665.8			
2016	28-Mar-16	11	1276	1110.3	0.068		1364.5			
2016	28-Mar-16	12	1099.6	925.8	0.063		1939.9			
2016	28-Mar-16	13	861.3	671	0.002		2150.8			
2016	28-Mar-16	14	937.5	653.4			2409.8			
2016	28-Mar-16	15	1126.7	757.2			2193.2			
2016	28-Mar-16	16	1207.6	1032.5			2053.4			
2016	28-Mar-16	17	1305.1	1217			2361.5			
2016	28-Mar-16	18	1368.4	1157.5			2828.7			
2016	28-Mar-16	19	1366.2	1219.8			3173.4			
2016	28-Mar-16	20	1317.9	1150.8			3328.3			
2016	28-Mar-16	21	1452.6	1462.2			3345			
2016	28-Mar-16	22	1252.8	1131.3			3393.1			
2016	28-Mar-16	23	837.2	792.8			3398.1			
2016	29-Mar-16	0	520.6	475.4			3408.9			
2016	29-Mar-16	1	506.7	334.1			3388.3			
2016	29-Mar-16	2	480.6	314.1			3370.4			
2016	29-Mar-16	3	482.1	277.1			3379.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	29-Mar-16	4	445.2	291.7			3395.5			
2016	29-Mar-16	5	650.8	369.5			3425.4			
2016	29-Mar-16	6	971.4	775.1			3460.9			
2016	29-Mar-16	7	1012.8	1059.4			3397.9			
2016	29-Mar-16	8	942.8	637.2			3227.8			
2016	29-Mar-16	9	737.2	390.4			3026.1			
2016	29-Mar-16	10	600.1	346.9			2863.5			
2016	29-Mar-16	11	821.7	503			3136.8			
2016	29-Mar-16	12	724.1	442			3142.7			
2016	29-Mar-16	13	597.7	359.6			3057.8			
2016	29-Mar-16	14	478.4	291.3			2955.6			
2016	29-Mar-16	15	740.4	613.4	0.005		2778.1			
2016	29-Mar-16	16	898.7	785.4	0.061		2384.6			
2016	29-Mar-16	17	1182.8	986.2	0.066		2165.2			
2016	29-Mar-16	18	1381.4	1143.4	0.066		2648.1			
2016	29-Mar-16	19	1372.1	1155.8	0.066		3224.8			
2016	29-Mar-16	20	1359.1	1111.4	0.066		3457.2			
2016	29-Mar-16	21	1379.4	1046.8	0.066		3434.5			
2016	29-Mar-16	22	1303.9	1168.8	0.066		3445.8			
2016	29-Mar-16	23	1355.4	855.1	0.066		3369.4			
2016	30-Mar-16	0	1133.6	397.7	0.073		2976			
2016	30-Mar-16	1	631	339.5	0.108		2444.2			
2016	30-Mar-16	2	1208.1	317.7	0.275		2253			
2016	30-Mar-16	3	1180.6	317.4	0.327		2108.2			
2016	30-Mar-16	4	1405.2	336.6	0.348		2271			
2016	30-Mar-16	5	859.8	557.4	0.418		2770.8			
2016	30-Mar-16	6	769.9	477.6	0.464		3002.6			
2016	30-Mar-16	7	1137.5	978.1	0.641		3256.3			
2016	30-Mar-16	8	1439.2	1297.2	0.605		3348			
2016	30-Mar-16	9	1461.8	1410	0.692		3403.7			
2016	30-Mar-16	10	1318.8	1312.6	0.428		3226.2			
2016	30-Mar-16	11	1284.9	980.5	0.474		3216.4			
2016	30-Mar-16	12	1131.8	933.2	0.6		2988.7			
2016	30-Mar-16	13	1135.9	779	0.418		2859.9			
2016	30-Mar-16	14	1237.8	976.5	0.682		3240.2			
2016	30-Mar-16	15	1306.1	1051.1	0.299		3446.6			
2016	30-Mar-16	16	1301.1	815			3472.3			
2016	30-Mar-16	17	1361.3	1068.9			3481.4			
2016	30-Mar-16	18	1336.1	1136.7			3500.4			
2016	30-Mar-16	19	1371.1	1198.1			3525.1			
2016	30-Mar-16	20	1398.3	1222.7			3532.3			
2016	30-Mar-16	21	1450.2	1085.9			3516.5			
2016	30-Mar-16	22	1396.2	770.9			3530.1			
2016	30-Mar-16	23	1366.4	563.8			3548.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	31-Mar-16	0	1125.4	413.7			3528.2			
2016	31-Mar-16	1	808.4	252.908			3524			
2016	31-Mar-16	2	723				3515			
2016	31-Mar-16	3	670.9				3246.8			
2016	31-Mar-16	4	620.3				2998.9			
2016	31-Mar-16	5	628.8				2904			
2016	31-Mar-16	6	570.6				2685.8			
2016	31-Mar-16	7	359.1				2542.2			
2016	31-Mar-16	8	285.4				2539.2			
2016	31-Mar-16	9	414.8				2322.7			
2016	31-Mar-16	10	443.1				2164			
2016	31-Mar-16	11	456.9				2423.6			
2016	31-Mar-16	12	439.3				2357.6			
2016	31-Mar-16	13	493.4				2506.5			
2016	31-Mar-16	14	404.4				2381			
2016	31-Mar-16	15	307.8				2179.5			
2016	31-Mar-16	16	572.5				2550.4			
2016	31-Mar-16	17	1464.3				3059.7			
2016	31-Mar-16	18	2083.1				3394.1			
2016	31-Mar-16	19	1205.9				3527.2			
2016	31-Mar-16	20	1013.9				3451.8			
2016	31-Mar-16	21	856.6				3073.8			
2016	31-Mar-16	22	726.7				2763.7			
2016	31-Mar-16	23	578.3				2325.3			
2016	1-Apr-16	0	426.1				2145.1			
2016	1-Apr-16	1	603.4				2156.5			
2016	1-Apr-16	2	519.8				2193.9			
2016	1-Apr-16	3	451.9				2165.4			
2016	1-Apr-16	4	341.6				2203.7			
2016	1-Apr-16	5	704.2				2235.4			
2016	1-Apr-16	6	534.5				2187.9			
2016	1-Apr-16	7	552.7				2387.8			
2016	1-Apr-16	8	459				2506.7			
2016	1-Apr-16	9	378.3				2229.6			
2016	1-Apr-16	10	299.5				2316.3			
2016	1-Apr-16	11	271.5				2321.3			
2016	1-Apr-16	12	301.8				2410.1			
2016	1-Apr-16	13	486.2				2826.7			
2016	1-Apr-16	14	612.9				3168.2			
2016	1-Apr-16	15	937.8				3506.8			
2016	1-Apr-16	16	1006.8				3616.5			
2016	1-Apr-16	17	1009.4				3676.6			
2016	1-Apr-16	18	1045.8				3699.2			
2016	1-Apr-16	19	1042.4				3506.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-Apr-16	20	891				3347.6			
2016	1-Apr-16	21	764.1				3180.8			
2016	1-Apr-16	22	526.2				2822.3			
2016	1-Apr-16	23	707.2				2424.9			
2016	2-Apr-16	0	848.6				2278.5			
2016	2-Apr-16	1	612.2				2223.3			
2016	2-Apr-16	2	535.9				2215.2			
2016	2-Apr-16	3	468.9				2277.1			
2016	2-Apr-16	4	486.2				2173.4			
2016	2-Apr-16	5	427.1				2186.6			
2016	2-Apr-16	6	349.3				2182.1			
2016	2-Apr-16	7	324				2162			
2016	2-Apr-16	8	334.6				2152.1			
2016	2-Apr-16	9	328.6				2130.8			
2016	2-Apr-16	10	298.6				2128.4			
2016	2-Apr-16	11	671.9				2133.9			
2016	2-Apr-16	12	801.4				2129.7			
2016	2-Apr-16	13	842.4				2117			
2016	2-Apr-16	14	863.9				2131.4			
2016	2-Apr-16	15	612.4				2148.4			
2016	2-Apr-16	16	426.3				2164.9			
2016	2-Apr-16	17	398.6				2134			
2016	2-Apr-16	18	618.7				2127.7			
2016	2-Apr-16	19	994.5				2239			
2016	2-Apr-16	20	1032.2				2458.5			
2016	2-Apr-16	21	964.2				2371.9			
2016	2-Apr-16	22	796.9				2212.5			
2016	2-Apr-16	23	475				2128.2			
2016	3-Apr-16	0	371.1				2094.4			
2016	3-Apr-16	1	333.8				2104.4			
2016	3-Apr-16	2	302.8				2096			
2016	3-Apr-16	3	307.3				2111.3			
2016	3-Apr-16	4	281.7				2106.5			
2016	3-Apr-16	5	300.2				2112.9			
2016	3-Apr-16	6	343.1				2267.4			
2016	3-Apr-16	7	414				2565.6			
2016	3-Apr-16	8	435.5				2759.3			
2016	3-Apr-16	9	498.1				3071.1			
2016	3-Apr-16	10	351.6				3000.1			
2016	3-Apr-16	11	283.7				2650.8			
2016	3-Apr-16	12	278.5				2269.7			
2016	3-Apr-16	13	282.8				2145.9			
2016	3-Apr-16	14	271.6				2145			
2016	3-Apr-16	15	282.5				2134.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	3-Apr-16	16	268.2				2138.9			
2016	3-Apr-16	17	278.1				2148			
2016	3-Apr-16	18	274.7				2161.5			
2016	3-Apr-16	19	289.6				2194.7			
2016	3-Apr-16	20	273.9				2165.2			
2016	3-Apr-16	21	283.5				2151.3			
2016	3-Apr-16	22	273.9				2158.2			
2016	3-Apr-16	23	288.2				2149.6			
2016	4-Apr-16	0	283.4				2137.6			
2016	4-Apr-16	1	291.2				2142.5			
2016	4-Apr-16	2	291.7			141.4	2135.7			
2016	4-Apr-16	3	298.8			227.6	2127.3			
2016	4-Apr-16	4	416.4			375.3	2319.1			
2016	4-Apr-16	5	709.8			365.4	2806.2			
2016	4-Apr-16	6	869.3			380.9	3283.1			
2016	4-Apr-16	7	905.3			403.7	3543.4			
2016	4-Apr-16	8	917.1			418.5	3360.6			
2016	4-Apr-16	9	659.6			438.1	2863.8			
2016	4-Apr-16	10	753.3			481.5	2870.7			
2016	4-Apr-16	11	1051.9			629.7	3069.5			
2016	4-Apr-16	12	1251.4			863.1	3025			
2016	4-Apr-16	13	695.2			1025.9	3124.5			
2016	4-Apr-16	14	459.9			1033.4	3098			
2016	4-Apr-16	15	582.9			911.7	3115.6			
2016	4-Apr-16	16	652.2			741.9	3088.2			
2016	4-Apr-16	17	1014.5			712.5	3214.4			
2016	4-Apr-16	18	796.9			439.2	3471.2			
2016	4-Apr-16	19	680.4			489	2922.9			
2016	4-Apr-16	20	627.6			475.8	2762.8			
2016	4-Apr-16	21	573.1			453.3	2480.9			
2016	4-Apr-16	22	442.7			441.9	2176.4			
2016	4-Apr-16	23	365.9			441.8	1954			
2016	5-Apr-16	0	350.6			433.9	1932.3			
2016	5-Apr-16	1	369.8			433.6	1933.8			
2016	5-Apr-16	2	302.7			426.2	1906.9			
2016	5-Apr-16	3	344.7			414.4	1932.1			
2016	5-Apr-16	4	504.9			518.3	2188.8			
2016	5-Apr-16	5	824.3			968.2	2651.7			
2016	5-Apr-16	6	1094.7			1047.2	3308.9			
2016	5-Apr-16	7	463.5			1077.6	3316.7			
2016	5-Apr-16	8	341.5			1109.3	3294.3			
2016	5-Apr-16	9	694.7			1118	3282.9			
2016	5-Apr-16	10	801.1			1065.4	3126.6			
2016	5-Apr-16	11	914.3			1075.9	3138.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	5-Apr-16	12	595.8			1119.4	3094.7			
2016	5-Apr-16	13	590.5			1010.6	3010			
2016	5-Apr-16	14	412.4			558	2369			
2016	5-Apr-16	15	282.1			465.2	2190.9			
2016	5-Apr-16	16	252.9			471.1	2073.2			
2016	5-Apr-16	17	309.8			479.9	2043.6			
2016	5-Apr-16	18	285.4			471.6	1937.1			
2016	5-Apr-16	19	324.3			505.6	2099.2			
2016	5-Apr-16	20	511.6			524.8	2399.5			
2016	5-Apr-16	21	659.1			430.3	2720.3			
2016	5-Apr-16	22	465			192	2538.2			
2016	5-Apr-16	23	353.9			0	2225.4			
2016	6-Apr-16	0	299.4				2109.8			
2016	6-Apr-16	1	482.1				2449.9			
2016	6-Apr-16	2	326.8				2506.3			
2016	6-Apr-16	3	445.6				2566.9			
2016	6-Apr-16	4	830.6				2906.2			
2016	6-Apr-16	5	903.1				3289.5			
2016	6-Apr-16	6	907.6				3328.5			
2016	6-Apr-16	7	1042.3				3338.4			
2016	6-Apr-16	8	1147.2				3500.9			
2016	6-Apr-16	9	1004.4				3491.5			
2016	6-Apr-16	10	853.7				3361.2			
2016	6-Apr-16	11	702.1				3239.9			
2016	6-Apr-16	12	462.5				2909.1			
2016	6-Apr-16	13	446.6				2717.4			
2016	6-Apr-16	14	269.3				2492.6			
2016	6-Apr-16	15	431				2296.1			
2016	6-Apr-16	16	474.9				2537.5			
2016	6-Apr-16	17	606.7				2777.9			
2016	6-Apr-16	18	700				3044.6			
2016	6-Apr-16	19	1353.2				3159.3			
2016	6-Apr-16	20	1238.6				2957.2			
2016	6-Apr-16	21	1081.2				2976.9			
2016	6-Apr-16	22	801.6				2663.3			
2016	6-Apr-16	23	562.2				2330			
2016	7-Apr-16	0	436.7				2051.7			
2016	7-Apr-16	1	325.7				2039.5			
2016	7-Apr-16	2	280.1				2025.4			
2016	7-Apr-16	3	313				2038.8			
2016	7-Apr-16	4	569.4				2397.3			
2016	7-Apr-16	5	1318.7				3051			
2016	7-Apr-16	6	1398.9				3387.3			
2016	7-Apr-16	7	1368.8				3434.5			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	7-Apr-16	8	1418.7				3434.9			
2016	7-Apr-16	9	1411.9				3399.7			
2016	7-Apr-16	10	1391				3482.3			
2016	7-Apr-16	11	1324.6				3510.6			
2016	7-Apr-16	12	1170.1				3483.5			
2016	7-Apr-16	13	1205.7				3412.7			
2016	7-Apr-16	14	1227.5				3438.5			
2016	7-Apr-16	15	1232.8				3486.5			
2016	7-Apr-16	16	1203.5				3529.4			
2016	7-Apr-16	17	1258.5				3511			
2016	7-Apr-16	18	1215.8				3431.3			
2016	7-Apr-16	19	1246.5				3432.4			
2016	7-Apr-16	20	1170.5				3447.9			
2016	7-Apr-16	21	1157.6				3399			
2016	7-Apr-16	22	1139.3				3147.3			
2016	7-Apr-16	23	1029.1				2896.4			
2016	8-Apr-16	0	632.1				2577.3			
2016	8-Apr-16	1	463.8				2314.1			
2016	8-Apr-16	2	484.2				2075.8			
2016	8-Apr-16	3	514.2				2054.6			
2016	8-Apr-16	4	830.9				2083.6			
2016	8-Apr-16	5	1249.6				2327.9			
2016	8-Apr-16	6	1976.8				2546.9			
2016	8-Apr-16	7	2022.3				2983.4			
2016	8-Apr-16	8	2191.2				3295			
2016	8-Apr-16	9	2296.7				3511.2			
2016	8-Apr-16	10	2175.1				3548.5			
2016	8-Apr-16	11	1474.3				3589.3			
2016	8-Apr-16	12	967.9				3558.8			
2016	8-Apr-16	13	1013.1				3579.1			
2016	8-Apr-16	14	1004				3446.4			
2016	8-Apr-16	15	1061.7				3233.5			
2016	8-Apr-16	16	970.6				3039.1			
2016	8-Apr-16	17	856.5				3117			
2016	8-Apr-16	18	520.6				3031.7			
2016	8-Apr-16	19	764.7				3303.5			
2016	8-Apr-16	20	933.8				3479.1			
2016	8-Apr-16	21	792.5				3384.9			
2016	8-Apr-16	22	619.2				3333.8			
2016	8-Apr-16	23	384.8				3052.1			
2016	9-Apr-16	0	253.2				2811.1			
2016	9-Apr-16	1	521.2				2580.3	0.052		
2016	9-Apr-16	2	586.3				2838.9	0.062		
2016	9-Apr-16	3	556.4				2752.3	0.062		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	9-Apr-16	4	781.4				3010.4	0.062		
2016	9-Apr-16	5	931.1				3043.9	0.062		
2016	9-Apr-16	6	1167.3				3122.7	0.062		
2016	9-Apr-16	7	914.8				3257	0.062		
2016	9-Apr-16	8	930.6				3498.9	0.062		
2016	9-Apr-16	9	1039.3				3516.1	0.062		
2016	9-Apr-16	10	1002.1				3527.7	0.062		
2016	9-Apr-16	11	981.2				3459.4	0.071		
2016	9-Apr-16	12	881				3402.9	0.059		
2016	9-Apr-16	13	925.9				3325			
2016	9-Apr-16	14	642.7				3007.6			
2016	9-Apr-16	15	595.3			0	2765.7			
2016	9-Apr-16	16	533.2			0	2935.8			
2016	9-Apr-16	17	579			0	2864.9			
2016	9-Apr-16	18	559			0	2912			
2016	9-Apr-16	19	972.9			0	3188.3			
2016	9-Apr-16	20	1111.3			0	3364			
2016	9-Apr-16	21	1205.5			0	3331.5			
2016	9-Apr-16	22	1205.6			0	3315.2			
2016	9-Apr-16	23	1216.5			0	3268.7			
2016	10-Apr-16	0	1191.8			0	3276			
2016	10-Apr-16	1	1240.1			0	3265			
2016	10-Apr-16	2	1155.6			0	3270.8			
2016	10-Apr-16	3	1142.1			0	3258.2			
2016	10-Apr-16	4	1063.6			0	3193.1			
2016	10-Apr-16	5	1131			0	3117.7			
2016	10-Apr-16	6	1130.9			0	3226.4			
2016	10-Apr-16	7	1070.4			0	3175.9			
2016	10-Apr-16	8	1083.8			0	3194			
2016	10-Apr-16	9	1060.7			0	3177.5			
2016	10-Apr-16	10	1060.6			0	3201.3			
2016	10-Apr-16	11	1019.1			0	3197.3			
2016	10-Apr-16	12	996.4			0	3180.2			
2016	10-Apr-16	13	992.3			0	3152.5			
2016	10-Apr-16	14	1064.1			0	3168.8			
2016	10-Apr-16	15	1115			0	3171.1			
2016	10-Apr-16	16	1058			0	3130.4			
2016	10-Apr-16	17	854.1			0	2883.3			
2016	10-Apr-16	18	857.7			0	2893.2			
2016	10-Apr-16	19	980.9			0	3110			
2016	10-Apr-16	20	858.2			0	3011.1			
2016	10-Apr-16	21	719.8			0	2859.6			
2016	10-Apr-16	22	504.8			0	2480.8			
2016	10-Apr-16	23	543.2			0	2235.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	11-Apr-16	0	824.5			0	2222.3			
2016	11-Apr-16	1	693.9			0	2218.9			
2016	11-Apr-16	2	786.3			0	2470.9			
2016	11-Apr-16	3	1343.9			0	2897.9			
2016	11-Apr-16	4	1173.5			0	3015.6			
2016	11-Apr-16	5	1262.8			0	3041.8			
2016	11-Apr-16	6	1324.3			0	3101.3			
2016	11-Apr-16	7	1315.5				3120			
2016	11-Apr-16	8	1277.2				3186.2			
2016	11-Apr-16	9	1269.1				3182.9			
2016	11-Apr-16	10	1294.2				3113.6			
2016	11-Apr-16	11	1237.6				3098.5			
2016	11-Apr-16	12	1204.3				3034.5			
2016	11-Apr-16	13	698.8				2725.5			
2016	11-Apr-16	14	540.5				2658.6			
2016	11-Apr-16	15	527.7				2704.6			
2016	11-Apr-16	16	539.2				2749			
2016	11-Apr-16	17	585				2775.4			
2016	11-Apr-16	18	821.6				2984.8			
2016	11-Apr-16	19	1222.7				3305.8			
2016	11-Apr-16	20	1256.4				3260.9			
2016	11-Apr-16	21	923				3104.3			
2016	11-Apr-16	22	822.5				2816			
2016	11-Apr-16	23	1104.8				2411.9			
2016	12-Apr-16	0	869.7				2076.2			
2016	12-Apr-16	1	697.3				1967.5			
2016	12-Apr-16	2	571.2				1988.8			
2016	12-Apr-16	3	522.5				1997			
2016	12-Apr-16	4	529.3				2021.4			
2016	12-Apr-16	5	470.2				2255.1			
2016	12-Apr-16	6	487				2471.9			
2016	12-Apr-16	7	520.8				2463.4			
2016	12-Apr-16	8	503				2472.2			
2016	12-Apr-16	9	371.1				2453.2			
2016	12-Apr-16	10	285.1				2385			
2016	12-Apr-16	11	271.5				2295.9			
2016	12-Apr-16	12	267.6				2099.7			
2016	12-Apr-16	13	284.8				2140.2			
2016	12-Apr-16	14	310.5				2390			
2016	12-Apr-16	15	490.3				2572.5			
2016	12-Apr-16	16	392.3				2534.4			
2016	12-Apr-16	17	357.9				2496.2			
2016	12-Apr-16	18	506.3				2849			
2016	12-Apr-16	19	619.3				3148.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-Apr-16	20	896.9				3038.9			
2016	12-Apr-16	21	1117.4				3182.2			
2016	12-Apr-16	22	912.2				3077.2			
2016	12-Apr-16	23	702.5				2616.3			
2016	13-Apr-16	0	518				2229.5			
2016	13-Apr-16	1	433.1				2172.6			
2016	13-Apr-16	2	394.2				2267.4			
2016	13-Apr-16	3	387.7				2289.7			
2016	13-Apr-16	4	330.9				2414.1			
2016	13-Apr-16	5	500.7				2670.8			
2016	13-Apr-16	6	781.5				2995.1			
2016	13-Apr-16	7	877.2				2847			
2016	13-Apr-16	8	681.1				2674.1			
2016	13-Apr-16	9	562.1				2480.1			
2016	13-Apr-16	10	709.7				2607			
2016	13-Apr-16	11	599.5				2678.9			
2016	13-Apr-16	12	599.8				2477.3			
2016	13-Apr-16	13	561.5				2487.4			
2016	13-Apr-16	14	466.7				2336.8			
2016	13-Apr-16	15	377				2210.1			
2016	13-Apr-16	16	325.9				2030.8			
2016	13-Apr-16	17	337.3				2045.9			
2016	13-Apr-16	18	369.6				2184.2			
2016	13-Apr-16	19	694.9				2929.3			
2016	13-Apr-16	20	722.7				2961.7			
2016	13-Apr-16	21	540.6				2605.2			
2016	13-Apr-16	22	514.5				2222.1			
2016	13-Apr-16	23	435.7				2052.3			
2016	14-Apr-16	0	325.2				2008.3			
2016	14-Apr-16	1	349.8				2059.3			
2016	14-Apr-16	2	352.7				2257.4			
2016	14-Apr-16	3	387.7				2324.7			
2016	14-Apr-16	4	496.6				2626.9			
2016	14-Apr-16	5	815.2				3043.5			
2016	14-Apr-16	6	1092				3275.5			
2016	14-Apr-16	7	1240.8				3304.7			
2016	14-Apr-16	8	1192.4				3314.9			
2016	14-Apr-16	9	925.2				3106.3			
2016	14-Apr-16	10	540.7				2985.7			
2016	14-Apr-16	11	525.7				2763.2			
2016	14-Apr-16	12	849.9				2639.1			
2016	14-Apr-16	13	1126.6				2815.8			
2016	14-Apr-16	14	903.3				2746.7			
2016	14-Apr-16	15	612.9				2399.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	14-Apr-16	16	432.7				2306.3			
2016	14-Apr-16	17	384.1				2097.7			
2016	14-Apr-16	18	520				2007.5			
2016	14-Apr-16	19	963.7				2390.9			
2016	14-Apr-16	20	813.2				2530.5			
2016	14-Apr-16	21	1075				2518			
2016	14-Apr-16	22	516.7				2861			
2016	14-Apr-16	23	600.2				2521			
2016	15-Apr-16	0	903.7				2125.9			
2016	15-Apr-16	1	766				2223.6			
2016	15-Apr-16	2	583.3				2298.1			
2016	15-Apr-16	3	717.4				2420.7			
2016	15-Apr-16	4	846.9				2892.3			
2016	15-Apr-16	5	993.8				3192.6			
2016	15-Apr-16	6	1078.4				3244.7			
2016	15-Apr-16	7	1095.5				3184.8			
2016	15-Apr-16	8	1009.8				3151.2			
2016	15-Apr-16	9	995.9				3153.3			
2016	15-Apr-16	10	938.3				3077.1			
2016	15-Apr-16	11	947.5				3143.5			
2016	15-Apr-16	12	953.9				3112.2			
2016	15-Apr-16	13	949.6				3073.4			
2016	15-Apr-16	14	1079.4				3140.8			
2016	15-Apr-16	15	1133.2				3170.6			
2016	15-Apr-16	16	1126.6				3173.5			
2016	15-Apr-16	17	1135.8				3189.7			
2016	15-Apr-16	18	1125.9				3203.2			
2016	15-Apr-16	19	1126.7				3182.7			
2016	15-Apr-16	20	1052.2				3141.2			
2016	15-Apr-16	21	1014.5				2906.2			
2016	15-Apr-16	22	671.3				2578.4			
2016	15-Apr-16	23	445.6				2248			
2016	16-Apr-16	0	378.5				2160.5			
2016	16-Apr-16	1	243.1				1974.5			
2016	16-Apr-16	2	194.4				1940.9			
2016	16-Apr-16	3	161.3				1965.4			
2016	16-Apr-16	4	270.5				1884.1			
2016	16-Apr-16	5	463.7				2021.5			
2016	16-Apr-16	6	614.7				2136			
2016	16-Apr-16	7	972.6				2607.9			
2016	16-Apr-16	8	1004.9				2677.3			
2016	16-Apr-16	9	1035.4				2917.7			
2016	16-Apr-16	10	1065.3				2873			
2016	16-Apr-16	11	1023.6				3015.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	16-Apr-16	12	1052.8				2683			
2016	16-Apr-16	13	1031.3				2648.5			
2016	16-Apr-16	14	1031.9				2834.5			
2016	16-Apr-16	15	1030.1				2962.1			
2016	16-Apr-16	16	1001.3				2796.2			
2016	16-Apr-16	17	882.4				2460.2			
2016	16-Apr-16	18	791.1				2100.9			
2016	16-Apr-16	19	635.3				1967			
2016	16-Apr-16	20	638.5				2083.9			
2016	16-Apr-16	21	618.3				2265.1			
2016	16-Apr-16	22	449.1				2182.7			
2016	16-Apr-16	23	261				1976.6			
2016	17-Apr-16	0	179				1940.3			
2016	17-Apr-16	1	139.6				1934.1			
2016	17-Apr-16	2	102.9				1934.6			
2016	17-Apr-16	3	124.7				1926.8			
2016	17-Apr-16	4	208.5				1966.2			
2016	17-Apr-16	5	306				2144.9			
2016	17-Apr-16	6	351.3				2028.4			
2016	17-Apr-16	7	388.8				2260.2			
2016	17-Apr-16	8	335				2502.4			
2016	17-Apr-16	9	335.7				2514.1			
2016	17-Apr-16	10	305.7				2499			
2016	17-Apr-16	11	384.5				2621.9			
2016	17-Apr-16	12	300.8				2702.6			
2016	17-Apr-16	13	355.2				2816.7			
2016	17-Apr-16	14	406.1				2963.9			
2016	17-Apr-16	15	420.9				2967.7			
2016	17-Apr-16	16	564.6				3174.3			
2016	17-Apr-16	17	697				3159.6			
2016	17-Apr-16	18	722.2				3121.1			
2016	17-Apr-16	19	637.7				2961.7			
2016	17-Apr-16	20	644.4				3123.4			
2016	17-Apr-16	21	713.7				3210.4			
2016	17-Apr-16	22	528.8				3095.8			
2016	17-Apr-16	23	356				2764.1			
2016	18-Apr-16	0	239.1				2332.8			
2016	18-Apr-16	1	386.2				2104.5			
2016	18-Apr-16	2	323.9				1946.8			
2016	18-Apr-16	3	339.1				1926.3			
2016	18-Apr-16	4	608.4				2230			
2016	18-Apr-16	5	566.3				2724.8			
2016	18-Apr-16	6	653.3				3077.3			
2016	18-Apr-16	7	618.8				2896.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	18-Apr-16	8	593.8				2884.2			
2016	18-Apr-16	9	669.1				3093.9			
2016	18-Apr-16	10	586.7				3060.4			
2016	18-Apr-16	11	507.6				2768.6			
2016	18-Apr-16	12	606.4				2853.6			
2016	18-Apr-16	13	745.6				3124.8			
2016	18-Apr-16	14	755.8				3131.9			
2016	18-Apr-16	15	801.8				3157.8			
2016	18-Apr-16	16	793.7				3319.3			
2016	18-Apr-16	17	820.7				3288.3			
2016	18-Apr-16	18	759.3				3284.2			
2016	18-Apr-16	19	650.5				3116.8			
2016	18-Apr-16	20	674.4				2997.3			
2016	18-Apr-16	21	721.9				3309			
2016	18-Apr-16	22	703.8				3137			
2016	18-Apr-16	23	644.5				2770.1			
2016	19-Apr-16	0	515.3				2343.1			
2016	19-Apr-16	1	485.7				2034.3			
2016	19-Apr-16	2	300.3				1926.5			
2016	19-Apr-16	3	207.6				2111.3			
2016	19-Apr-16	4	305.4				2245			
2016	19-Apr-16	5	448.7				2285.5			
2016	19-Apr-16	6	537.4				2311.6			
2016	19-Apr-16	7	615.1				2389.2			
2016	19-Apr-16	8	551.1				2726.2			
2016	19-Apr-16	9	677.2				2978.9			
2016	19-Apr-16	10	936				3123.2			
2016	19-Apr-16	11	1036.8				3257.2			
2016	19-Apr-16	12	1112.5				3304.1			
2016	19-Apr-16	13	1138.9				3297.9			
2016	19-Apr-16	14	1185.4				3317.2			
2016	19-Apr-16	15	1241.3				3319.7			
2016	19-Apr-16	16	1208.1				3308.9			
2016	19-Apr-16	17	1172.6				3298.3			
2016	19-Apr-16	18	887.9				3105.2			
2016	19-Apr-16	19	916.2				2956.3			
2016	19-Apr-16	20	988.1				3062.4			
2016	19-Apr-16	21	783.6				2932.6			
2016	19-Apr-16	22	579.7				2642.8			
2016	19-Apr-16	23	418.8				2277.2			
2016	20-Apr-16	0	228.7				1923.1			
2016	20-Apr-16	1	185.6				1854			
2016	20-Apr-16	2	114.4				1809.6			
2016	20-Apr-16	3	111.7				1846.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	20-Apr-16	4	188				1857.1			
2016	20-Apr-16	5	313.1				1862.2			
2016	20-Apr-16	6	380.1				1933.9			
2016	20-Apr-16	7	397.1				1923.6			
2016	20-Apr-16	8	427.8				2250.3			
2016	20-Apr-16	9	376.1				2519.2			
2016	20-Apr-16	10	318.6				2540.2			
2016	20-Apr-16	11	425.6				2731.5			
2016	20-Apr-16	12	456.4				2944.7			
2016	20-Apr-16	13	490.3				2981.6			
2016	20-Apr-16	14	603.8				2969.8			
2016	20-Apr-16	15	788.1				3132.8			
2016	20-Apr-16	16	887.8				3137.2			
2016	20-Apr-16	17	840.3				3057.5			
2016	20-Apr-16	18	616.7				2708.3			
2016	20-Apr-16	19	634.7				2696.5			
2016	20-Apr-16	20	450.3				2652.7			
2016	20-Apr-16	21	397.9				2482.8			
2016	20-Apr-16	22	345.7				2582.5			
2016	20-Apr-16	23	265.9				2488.5			
2016	21-Apr-16	0	421.2				2220.8			
2016	21-Apr-16	1	467.2				2064.7			
2016	21-Apr-16	2	425.5				1947.8			
2016	21-Apr-16	3	424.6				2074.8			
2016	21-Apr-16	4	773.8				2197.6			
2016	21-Apr-16	5	903.2				2540.4			
2016	21-Apr-16	6	1163.5				2663.6			
2016	21-Apr-16	7	674.9				2900.2			
2016	21-Apr-16	8	633.9				2840.7			
2016	21-Apr-16	9	601.5				2816.2			
2016	21-Apr-16	10	646.2				2862.9			
2016	21-Apr-16	11	781.8				2924.3			
2016	21-Apr-16	12	817.2				3022.6			
2016	21-Apr-16	13	889.8				2991.9			
2016	21-Apr-16	14	683.8				2864.2			
2016	21-Apr-16	15	492.9				2571			
2016	21-Apr-16	16	425.8				2414.2			
2016	21-Apr-16	17	608.3				2697.6			
2016	21-Apr-16	18	331.3				2591.8			
2016	21-Apr-16	19	569.3				2797			
2016	21-Apr-16	20	670				2883.6			
2016	21-Apr-16	21	953.3				2972.5			
2016	21-Apr-16	22	742.1				2872.7			
2016	21-Apr-16	23	486.5				2523.6			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	22-Apr-16	0	274.4				2148.1			
2016	22-Apr-16	1	227.2				1853.8			
2016	22-Apr-16	2	302.4				1806.9			
2016	22-Apr-16	3	284.7				1836.1			
2016	22-Apr-16	4	407.6				2161.1			
2016	22-Apr-16	5	727.1				2624			
2016	22-Apr-16	6	1077.9				2947.6			
2016	22-Apr-16	7	1214.2				3014.7			
2016	22-Apr-16	8	945.2				2910.3			
2016	22-Apr-16	9	994.7				2883.7			
2016	22-Apr-16	10	717.7				2901.5			
2016	22-Apr-16	11	590				2624.9			
2016	22-Apr-16	12	830.2				2765			
2016	22-Apr-16	13	1259.6				2938.5			
2016	22-Apr-16	14	1146.7				3050.3			
2016	22-Apr-16	15	1027.6				2811.9			
2016	22-Apr-16	16	677.6				2561.5			
2016	22-Apr-16	17	532.8				2290			
2016	22-Apr-16	18	368.8				2093.9			
2016	22-Apr-16	19	240.3				1851.3			
2016	22-Apr-16	20	164.3				1832.6			
2016	22-Apr-16	21	160.8				1818.2			
2016	22-Apr-16	22	158.9				1801.9			
2016	22-Apr-16	23	160.5				1811.8			
2016	23-Apr-16	0	160.3				1789.4			
2016	23-Apr-16	1	188.6				1784			
2016	23-Apr-16	2	185.5				1812.6			
2016	23-Apr-16	3	184.3				1816.5			
2016	23-Apr-16	4	179.1				1799.9			
2016	23-Apr-16	5	177.4				1811.4			
2016	23-Apr-16	6	183.7				1799.1			
2016	23-Apr-16	7	190.9				1838.4			
2016	23-Apr-16	8	187.4				1839			
2016	23-Apr-16	9	161.5				1808.8			
2016	23-Apr-16	10	156.5				1811.7			
2016	23-Apr-16	11	165.5				1816			
2016	23-Apr-16	12	173.4				1815.3			
2016	23-Apr-16	13	166.9	0			1884.6			
2016	23-Apr-16	14	153.7	0			1910			
2016	23-Apr-16	15	152.1	0			1955.5			
2016	23-Apr-16	16	155	0			2019.7			
2016	23-Apr-16	17	147.7	0			2124.1			
2016	23-Apr-16	18	167.1	0			2263.9			
2016	23-Apr-16	19	143.5	0			2067.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-Apr-16	20	152	0			1945			
2016	23-Apr-16	21	161.9	0			1875.9			
2016	23-Apr-16	22	152.9	0			1893.2			
2016	23-Apr-16	23	146.5	0			1857.1			
2016	24-Apr-16	0	150	0			1859			
2016	24-Apr-16	1	149.1	0			1867.4			
2016	24-Apr-16	2	144.4	0			1855.4			
2016	24-Apr-16	3	160.7	0			1880.1			
2016	24-Apr-16	4	159.9	0			1891.6			
2016	24-Apr-16	5	156.2	0			1863.7			
2016	24-Apr-16	6	180	0			1987.6			
2016	24-Apr-16	7	163.8	0			1854.4			
2016	24-Apr-16	8	204.1	0			2042			
2016	24-Apr-16	9	289.3	0			2338.2			
2016	24-Apr-16	10	395	0			2439.3			
2016	24-Apr-16	11	698.6	0			2804.6			
2016	24-Apr-16	12	714.8	0			2770.5			
2016	24-Apr-16	13	761.7	0			2713.3			
2016	24-Apr-16	14	926.3	0			2846.3			
2016	24-Apr-16	15	1002.5	0			3095.6			
2016	24-Apr-16	16	993.9	0			3066.4			
2016	24-Apr-16	17	1637.3	27.8			2962.6			
2016	24-Apr-16	18	1764.1	32.4			2779.7			
2016	24-Apr-16	19	1690.8	60.2			2517.2			
2016	24-Apr-16	20	1437.5	85.5			2257.4			
2016	24-Apr-16	21	1454.7	155			2028.8			
2016	24-Apr-16	22	1067.8	93.3			1913.2			
2016	24-Apr-16	23	827.8	162.9			1888.5			
2016	25-Apr-16	0	432	128.5			1895.8			
2016	25-Apr-16	1	440.2	102.2			1896.8			
2016	25-Apr-16	2	549.9	99			1872.8			
2016	25-Apr-16	3	1000.8	91			1877.5			
2016	25-Apr-16	4	1217.8	91.9			1880.2			
2016	25-Apr-16	5	836.3	122.9			1869.1			
2016	25-Apr-16	6	702.5	167.6			1872.4			
2016	25-Apr-16	7	883.9	246.3			1878.2			
2016	25-Apr-16	8	906.4	305.5			1878			
2016	25-Apr-16	9	792.5	379.3			1930.4			
2016	25-Apr-16	10	631.1	566.2			1975.9			
2016	25-Apr-16	11	583.3	519.9			1918.5			
2016	25-Apr-16	12	508.4	237.8			1922.2			
2016	25-Apr-16	13	354.1	400.4			1941.2			
2016	25-Apr-16	14	499.6	355.8			1934.8			
2016	25-Apr-16	15	438.9	307.3			1939.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	25-Apr-16	16	358.1	444.3			1961.4			
2016	25-Apr-16	17	263.2	286.8			2010.4			
2016	25-Apr-16	18	695.1	467.3			1951.1			
2016	25-Apr-16	19	1106.6	335.2			2044.6			
2016	25-Apr-16	20	1019.8	566.9			1969.3			
2016	25-Apr-16	21	584.4	413.8			1968.2			
2016	25-Apr-16	22	299.2	248.6			1971.7			
2016	25-Apr-16	23	260.1	251.2			1967.2			
2016	26-Apr-16	0	170.7	197			1956.1			
2016	26-Apr-16	1	166.2	171.2			1954.3			
2016	26-Apr-16	2	177	173.9			1966.8			
2016	26-Apr-16	3	173	175.6			1962.3			
2016	26-Apr-16	4	168.7	172.8			1972.3			
2016	26-Apr-16	5	197.5	189.6			1971.2			
2016	26-Apr-16	6	311.7	450.6			1963.3			
2016	26-Apr-16	7	228.3	331			1970.6			
2016	26-Apr-16	8	199.9	334.2			1952.8			
2016	26-Apr-16	9	199.2	267.8			1962.7			
2016	26-Apr-16	10	243.3	228.9			1952.5			
2016	26-Apr-16	11	273.3	219.9			1980.8			
2016	26-Apr-16	12	271.5	218.8			1992.2			
2016	26-Apr-16	13	289.1	203.2			2014.2			
2016	26-Apr-16	14	267.5	193			2000.2			
2016	26-Apr-16	15	244.5	189.3			1985.3			
2016	26-Apr-16	16	241.5	124.5			2072			
2016	26-Apr-16	17	239.2	86.4			1989.4			
2016	26-Apr-16	18	243.4	75			1988.5			
2016	26-Apr-16	19	235.2	67.5			1985			
2016	26-Apr-16	20	220.9	156.8			1977.3			
2016	26-Apr-16	21	227.5	107.7			1954.3			
2016	26-Apr-16	22	222.1	85.3			1984.3			
2016	26-Apr-16	23	25.125	85.8			1938.9			
2016	27-Apr-16	0		249.1			1931.9			
2016	27-Apr-16	1		265.5			1943.3			
2016	27-Apr-16	2		262.5			1950.2			
2016	27-Apr-16	3		402.1			2041.9			
2016	27-Apr-16	4		1054.2			2465.4			
2016	27-Apr-16	5		1495.6			2818			
2016	27-Apr-16	6		990.2			2828.9			
2016	27-Apr-16	7		383.4			2793.9			
2016	27-Apr-16	8		396.6			2613.8			
2016	27-Apr-16	9		470.3			2273.1			
2016	27-Apr-16	10		446.4			2046.6			
2016	27-Apr-16	11		385.4			1900.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	27-Apr-16	12		323.6			1887.7			
2016	27-Apr-16	13		265.4			1890.2			
2016	27-Apr-16	14		253.8			1896.8			
2016	27-Apr-16	15		211.9			1921.6			
2016	27-Apr-16	16		157.3			1958.8			
2016	27-Apr-16	17		136.7			1954.3			
2016	27-Apr-16	18		121.7			1982.2			
2016	27-Apr-16	19		87.2			1979.4			
2016	27-Apr-16	20		85.5			1989.7			
2016	27-Apr-16	21		83.6			2021.7			
2016	27-Apr-16	22		86.5			2014.1			
2016	27-Apr-16	23		83.9			2033.6			
2016	28-Apr-16	0		77.7			2047.7			
2016	28-Apr-16	1		75.1			2021.6			
2016	28-Apr-16	2		77			2030.1			
2016	28-Apr-16	3		102.6			2032.5			
2016	28-Apr-16	4		394.9			2009.9			
2016	28-Apr-16	5		668.2			2110.5			
2016	28-Apr-16	6		729.6			2539.2			
2016	28-Apr-16	7		609.7			3000			
2016	28-Apr-16	8		455			3250.4			
2016	28-Apr-16	9		507.1			3303.5			
2016	28-Apr-16	10		614.7			3303			
2016	28-Apr-16	11		649.7			3177.6			
2016	28-Apr-16	12		583.1			2823.7			
2016	28-Apr-16	13		492.4			2951.6			
2016	28-Apr-16	14		407.3			2978.1			
2016	28-Apr-16	15		236.3			2741.5			
2016	28-Apr-16	16		220			2831.8			
2016	28-Apr-16	17		230.2			2910.8			
2016	28-Apr-16	18		259.6			2710			
2016	28-Apr-16	19		510.5			2323.5			
2016	28-Apr-16	20		711.8			2121.6			
2016	28-Apr-16	21		673.5			1981.1			
2016	28-Apr-16	22		445.7			1968.4			
2016	28-Apr-16	23		283.1			1988.1			
2016	29-Apr-16	0		193.3			1970.2			
2016	29-Apr-16	1		130.9			1972.6			
2016	29-Apr-16	2		89.9			1972			
2016	29-Apr-16	3		104.2			1975.3			
2016	29-Apr-16	4		397.1			1960.2			
2016	29-Apr-16	5		555.7			2145.4			
2016	29-Apr-16	6		466.3			2220.9			
2016	29-Apr-16	7		877.3			2646.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	29-Apr-16	8		834.4			2558.7			
2016	29-Apr-16	9		455			2504			
2016	29-Apr-16	10		555.4			2701.7			
2016	29-Apr-16	11		813.5			3046			
2016	29-Apr-16	12		1093.9			3296.2			
2016	29-Apr-16	13		757.6			3255.3			
2016	29-Apr-16	14		521			2970.5			
2016	29-Apr-16	15		592.9			3219.7			
2016	29-Apr-16	16		458.8			3186.3			
2016	29-Apr-16	17		385.8			3025.1			
2016	29-Apr-16	18		330			2775.8			
2016	29-Apr-16	19		280.3			2516.7			
2016	29-Apr-16	20		182.2			2444.6			
2016	29-Apr-16	21		127			2160.8			
2016	29-Apr-16	22		92.4			2077.8			
2016	29-Apr-16	23		79.6			2044.3			
2016	30-Apr-16	0		78.3			2035.6			
2016	30-Apr-16	1		140.6			2051.1			
2016	30-Apr-16	2		235.6			2042.5			
2016	30-Apr-16	3		261.1			2042.9			
2016	30-Apr-16	4		255.6			2063.5			
2016	30-Apr-16	5		276.9			2053.1			
2016	30-Apr-16	6		296.3			2055.7			
2016	30-Apr-16	7		322.7			2222.2			
2016	30-Apr-16	8		309.4			2054.7			
2016	30-Apr-16	9		304.7			2052.9			
2016	30-Apr-16	10		309.2			2065.1			
2016	30-Apr-16	11		313			2078.3			
2016	30-Apr-16	12		303.8			2071.7			
2016	30-Apr-16	13		250.1			2075.1			
2016	30-Apr-16	14		253.3			2077.7			
2016	30-Apr-16	15		261.3			2075.4			
2016	30-Apr-16	16		275.9			2169.2			
2016	30-Apr-16	17		291.2			2220.1			
2016	30-Apr-16	18		331			2148.4			
2016	30-Apr-16	19		334.1			2334.7			
2016	30-Apr-16	20		276.5			2184.2			
2016	30-Apr-16	21		289.2			2112.4			
2016	30-Apr-16	22		278.2			2122.3			
2016	30-Apr-16	23		286.6			2126			
2016	1-May-16	0		293.8			2123.9			
2016	1-May-16	1		281			2142.3			
2016	1-May-16	2		287.4			2142.4			
2016	1-May-16	3		294.9			2122.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-May-16	4		288			2128.7			
2016	1-May-16	5		295.8			2113.3			
2016	1-May-16	6		306.6			2104.4			
2016	1-May-16	7		283.2			2131.4			
2016	1-May-16	8		282.8			2268.5			
2016	1-May-16	9		268.2			2104.8			
2016	1-May-16	10		268.6			2101.3			
2016	1-May-16	11		270.2			2229.3			
2016	1-May-16	12		266.2			2101			
2016	1-May-16	13		268.9			2150.6			
2016	1-May-16	14		279.9			2109.5			
2016	1-May-16	15		278.9			2111.8			
2016	1-May-16	16		287.3			2129.3			
2016	1-May-16	17		324.1			2147.4			
2016	1-May-16	18		709.2			2881.1			
2016	1-May-16	19		606.6			3400.9			
2016	1-May-16	20		476.9			3095.9			
2016	1-May-16	21		324.7			2818.7			
2016	1-May-16	22		212.1			2349.6			
2016	1-May-16	23		165.9			2159.5			
2016	2-May-16	0		121			2129.8			
2016	2-May-16	1		125.2			2109.7			
2016	2-May-16	2		124.3			2111.3			
2016	2-May-16	3		120.7			2105.8			
2016	2-May-16	4		124.2			2123.7			
2016	2-May-16	5		138.7			2236.9			
2016	2-May-16	6		128.7			2137.3			
2016	2-May-16	7		129.2			2115.2			
2016	2-May-16	8		140			2264.4			
2016	2-May-16	9		124.6			2322.4			
2016	2-May-16	10		120.9			2125.3			
2016	2-May-16	11		137.3			2331.3			
2016	2-May-16	12		152.6			2556.9			
2016	2-May-16	13		131.3			2417.6			
2016	2-May-16	14		121.6			2410.4			
2016	2-May-16	15		119.6			2141.5			
2016	2-May-16	16		119.3			2126.8			
2016	2-May-16	17		121			2173.8			
2016	2-May-16	18		122.2			2132.8			
2016	2-May-16	19		121.5			2129.5			
2016	2-May-16	20		125.6			2232.9			
2016	2-May-16	21		121.8			2138.3			
2016	2-May-16	22		119.7			2091.1			
2016	2-May-16	23		122.4			2087.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	3-May-16	0		120.6			2076.4			
2016	3-May-16	1		117.5			2047.3			
2016	3-May-16	2		116.2			2060.5			
2016	3-May-16	3		115.9			2052.5			
2016	3-May-16	4		119.7			2047.8			
2016	3-May-16	5		109.1			2116.3			
2016	3-May-16	6		102			2097.7			
2016	3-May-16	7		106.8			2579.8			
2016	3-May-16	8		107.3			3490.6			
2016	3-May-16	9		165.3			3562.4			
2016	3-May-16	10		287.2			3518.4			
2016	3-May-16	11		286.1			3210.7			
2016	3-May-16	12		297.3			2849.7			
2016	3-May-16	13		281.1			2523.2			
2016	3-May-16	14		274.7			2444.6			
2016	3-May-16	15		273.2			2175.2			
2016	3-May-16	16		271.4			2077			
2016	3-May-16	17		267.8			2071			
2016	3-May-16	18		273.8			2047.9			
2016	3-May-16	19		286.7			2046.9			
2016	3-May-16	20		318.9			2071.5			
2016	3-May-16	21		309.3			2062.1			
2016	3-May-16	22		292.8			2041.8			
2016	3-May-16	23		276.3			2036.8			
2016	4-May-16	0		273.7			2046.9			
2016	4-May-16	1		272.1			2031.9			
2016	4-May-16	2		292.2			2026.7			
2016	4-May-16	3		284.2			2040.8			
2016	4-May-16	4		279.7			2035.3			
2016	4-May-16	5		279.9			2035.2			
2016	4-May-16	6		282.3			2034.1			
2016	4-May-16	7		283.6			2015.6			
2016	4-May-16	8		275.5			2010.8			
2016	4-May-16	9		278.2			1987.8			
2016	4-May-16	10		269.7			2015.1			
2016	4-May-16	11		274.2			2025.3			
2016	4-May-16	12		272.7			2017.6			
2016	4-May-16	13		263.2			2023.6			
2016	4-May-16	14		254.9			2014.6			
2016	4-May-16	15		250			2026.1			
2016	4-May-16	16		248.8			2029.8			
2016	4-May-16	17		249.9			2008.2			
2016	4-May-16	18		250.8			2014.3			
2016	4-May-16	19		292.7			2234.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	4-May-16	20		269			2361.4			
2016	4-May-16	21		264			2072.4			
2016	4-May-16	22		278.8			2045.4			
2016	4-May-16	23		274.1			2019.5			
2016	5-May-16	0		266.9			2012.7			
2016	5-May-16	1		266.4			2021.2			
2016	5-May-16	2		274.9			2018.2			
2016	5-May-16	3		284.9			2012.4			
2016	5-May-16	4		280.3			2021.1			
2016	5-May-16	5		294.2			2023.2			
2016	5-May-16	6		322.7			2069.7			
2016	5-May-16	7		292.3			2039.4			
2016	5-May-16	8		281.1			2014.4			
2016	5-May-16	9		278			1988.2			
2016	5-May-16	10		281.9			2033.5			
2016	5-May-16	11		265.4			1980.3			
2016	5-May-16	12		267.1			1988.1			
2016	5-May-16	13		268.6			1957.9			
2016	5-May-16	14		273.5			1983.3			
2016	5-May-16	15		281.1			1961.9			
2016	5-May-16	16		295.7			1982.7			
2016	5-May-16	17		316.2			1985.8			
2016	5-May-16	18		328			1985.7			
2016	5-May-16	19		321			2006.3			
2016	5-May-16	20		315.2			1999.7			
2016	5-May-16	21		341.1			1982			
2016	5-May-16	22		345.5			1981.2			
2016	5-May-16	23		412.2			1966.9			
2016	6-May-16	0		183.5			1986.8			
2016	6-May-16	1		0			1993.2			
2016	6-May-16	2					1946.6			
2016	6-May-16	3					2045.9			
2016	6-May-16	4					2092.5			
2016	6-May-16	5					2426.7			
2016	6-May-16	6					2667.9			
2016	6-May-16	7					2925.5			
2016	6-May-16	8					2756.9			
2016	6-May-16	9					2791.3			
2016	6-May-16	10					2753			
2016	6-May-16	11					2720.8			
2016	6-May-16	12					2741.8			
2016	6-May-16	13					2739.2			
2016	6-May-16	14					2748.5			
2016	6-May-16	15					2738.8			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-May-16	16					2406.4			
2016	6-May-16	17					2410.5			
2016	6-May-16	18					2514.4			
2016	6-May-16	19					2601.6			
2016	6-May-16	20					2675.7			
2016	6-May-16	21					2528.2			
2016	6-May-16	22					1619			
2016	6-May-16	23					657.7			
2016	7-May-16	0					754.9			
2016	7-May-16	1					11.86			
2016	7-May-16	2								
2016	7-May-16	3								
2016	7-May-16	4								
2016	7-May-16	5								
2016	7-May-16	6								
2016	7-May-16	7								
2016	7-May-16	8								
2016	7-May-16	9								
2016	7-May-16	10								
2016	7-May-16	11								
2016	7-May-16	12								
2016	7-May-16	13								
2016	7-May-16	14								
2016	7-May-16	15								
2016	7-May-16	16								
2016	7-May-16	17								
2016	7-May-16	18								
2016	7-May-16	19								
2016	7-May-16	20								
2016	7-May-16	21								
2016	7-May-16	22								
2016	7-May-16	23								
2016	8-May-16	0								
2016	8-May-16	1								
2016	8-May-16	2								
2016	8-May-16	3								
2016	8-May-16	4								
2016	8-May-16	5								
2016	8-May-16	6								
2016	8-May-16	7								
2016	8-May-16	8								
2016	8-May-16	9								
2016	8-May-16	10								
2016	8-May-16	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	8-May-16	12								
2016	8-May-16	13								
2016	8-May-16	14								
2016	8-May-16	15								
2016	8-May-16	16								
2016	8-May-16	17								
2016	8-May-16	18								
2016	8-May-16	19								
2016	8-May-16	20								
2016	8-May-16	21								
2016	8-May-16	22								
2016	8-May-16	23								
2016	9-May-16	0								
2016	9-May-16	1								
2016	9-May-16	2								
2016	9-May-16	3								
2016	9-May-16	4								
2016	9-May-16	5								
2016	9-May-16	6								
2016	9-May-16	7								
2016	9-May-16	8								
2016	9-May-16	9								
2016	9-May-16	10								
2016	9-May-16	11								
2016	9-May-16	12								
2016	9-May-16	13								
2016	9-May-16	14								
2016	9-May-16	15								
2016	9-May-16	16								
2016	9-May-16	17								
2016	9-May-16	18								
2016	9-May-16	19								
2016	9-May-16	20								
2016	9-May-16	21								
2016	9-May-16	22			0.013					
2016	9-May-16	23			0.033					
2016	10-May-16	0			0.033					
2016	10-May-16	1			0.059					
2016	10-May-16	2			0.076					
2016	10-May-16	3			0.081					
2016	10-May-16	4			0.081					
2016	10-May-16	5			0.081					
2016	10-May-16	6			0.062					
2016	10-May-16	7			0.064					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-May-16	8			0.063					
2016	10-May-16	9			0.064					
2016	10-May-16	10			0.079					
2016	10-May-16	11			0.103					
2016	10-May-16	12			0.109					
2016	10-May-16	13			0.112					
2016	10-May-16	14			0.132					
2016	10-May-16	15			0.161					
2016	10-May-16	16			0.256					
2016	10-May-16	17			0.388					
2016	10-May-16	18			0.442					
2016	10-May-16	19			0.587					
2016	10-May-16	20			0.645					
2016	10-May-16	21			0.454					
2016	10-May-16	22			0.125					
2016	10-May-16	23			0.083					
2016	11-May-16	0			0.081					
2016	11-May-16	1			0.015					
2016	11-May-16	2								
2016	11-May-16	3								
2016	11-May-16	4								
2016	11-May-16	5								
2016	11-May-16	6								
2016	11-May-16	7								
2016	11-May-16	8								
2016	11-May-16	9			0.055					
2016	11-May-16	10			0.08					
2016	11-May-16	11			0.053					
2016	11-May-16	12			0.08					
2016	11-May-16	13			0.11					
2016	11-May-16	14			0.241					
2016	11-May-16	15			0.333					
2016	11-May-16	16			0.349					
2016	11-May-16	17			0.412					
2016	11-May-16	18			0.522					
2016	11-May-16	19			0.67					
2016	11-May-16	20			0.64					
2016	11-May-16	21			0.427					
2016	11-May-16	22			0.137					
2016	11-May-16	23			0.061					
2016	12-May-16	0			0.061					
2016	12-May-16	1			0.061					
2016	12-May-16	2			0.061					
2016	12-May-16	3			0.072					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-May-16	4			0.084					
2016	12-May-16	5			0.085					
2016	12-May-16	6			0.086					
2016	12-May-16	7			0.191					
2016	12-May-16	8			0.466					
2016	12-May-16	9			0.68					
2016	12-May-16	10			0.695					
2016	12-May-16	11			0.714					
2016	12-May-16	12			0.732					
2016	12-May-16	13			0.709					
2016	12-May-16	14			0.542					
2016	12-May-16	15			0.332					
2016	12-May-16	16			0.428					
2016	12-May-16	17			0.495					
2016	12-May-16	18			0.315					
2016	12-May-16	19			0.259					
2016	12-May-16	20			0.064					
2016	12-May-16	21			0.061					
2016	12-May-16	22			0.061					
2016	12-May-16	23			0.066					
2016	13-May-16	0			0.073					
2016	13-May-16	1			0.062					
2016	13-May-16	2			0.069					
2016	13-May-16	3			0.017					
2016	13-May-16	4								
2016	13-May-16	5			0.049					
2016	13-May-16	6			0.082					
2016	13-May-16	7			0.06					
2016	13-May-16	8			0.06					
2016	13-May-16	9			0.06					
2016	13-May-16	10			0.068					
2016	13-May-16	11			0.061					
2016	13-May-16	12			0.033					
2016	13-May-16	13			0.033					
2016	13-May-16	14			0.02					
2016	13-May-16	15								
2016	13-May-16	16								
2016	13-May-16	17								
2016	13-May-16	18								
2016	13-May-16	19								
2016	13-May-16	20								
2016	13-May-16	21								
2016	13-May-16	22								
2016	13-May-16	23								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	14-May-16	0			0.035					
2016	14-May-16	1			0.079					
2016	14-May-16	2			0.079					
2016	14-May-16	3			0.079					
2016	14-May-16	4			0.079					
2016	14-May-16	5			0.079					
2016	14-May-16	6			0.074					
2016	14-May-16	7			92.666					
2016	14-May-16	8			296.7					
2016	14-May-16	9			304.6					
2016	14-May-16	10			402.2					
2016	14-May-16	11			403.5					
2016	14-May-16	12			424.3					
2016	14-May-16	13			680					
2016	14-May-16	14			734.9					
2016	14-May-16	15			798.1					
2016	14-May-16	16			690.9					
2016	14-May-16	17			339.2					
2016	14-May-16	18			17.359					
2016	14-May-16	19								
2016	14-May-16	20								
2016	14-May-16	21								
2016	14-May-16	22								
2016	14-May-16	23								
2016	15-May-16	0								
2016	15-May-16	1								
2016	15-May-16	2								
2016	15-May-16	3								
2016	15-May-16	4								
2016	15-May-16	5								
2016	15-May-16	6								
2016	15-May-16	7								
2016	15-May-16	8								
2016	15-May-16	9								
2016	15-May-16	10								
2016	15-May-16	11								
2016	15-May-16	12								
2016	15-May-16	13								
2016	15-May-16	14								
2016	15-May-16	15								
2016	15-May-16	16								
2016	15-May-16	17								
2016	15-May-16	18								
2016	15-May-16	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	15-May-16	20								
2016	15-May-16	21								
2016	15-May-16	22								
2016	15-May-16	23								
2016	16-May-16	0								
2016	16-May-16	1								
2016	16-May-16	2								
2016	16-May-16	3								
2016	16-May-16	4								
2016	16-May-16	5								
2016	16-May-16	6								
2016	16-May-16	7								
2016	16-May-16	8								
2016	16-May-16	9								
2016	16-May-16	10								
2016	16-May-16	11								
2016	16-May-16	12								
2016	16-May-16	13								
2016	16-May-16	14								
2016	16-May-16	15								
2016	16-May-16	16								
2016	16-May-16	17								
2016	16-May-16	18								
2016	16-May-16	19								
2016	16-May-16	20								
2016	16-May-16	21								
2016	16-May-16	22								
2016	16-May-16	23								
2016	17-May-16	0								
2016	17-May-16	1								
2016	17-May-16	2								
2016	17-May-16	3								
2016	17-May-16	4								
2016	17-May-16	5								
2016	17-May-16	6								
2016	17-May-16	7								
2016	17-May-16	8								
2016	17-May-16	9								
2016	17-May-16	10								
2016	17-May-16	11								
2016	17-May-16	12								
2016	17-May-16	13								
2016	17-May-16	14								
2016	17-May-16	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-May-16	16								
2016	17-May-16	17								
2016	17-May-16	18								
2016	17-May-16	19								
2016	17-May-16	20								
2016	17-May-16	21								
2016	17-May-16	22								
2016	17-May-16	23								
2016	18-May-16	0								
2016	18-May-16	1								
2016	18-May-16	2								
2016	18-May-16	3								
2016	18-May-16	4								
2016	18-May-16	5								
2016	18-May-16	6								
2016	18-May-16	7								
2016	18-May-16	8								
2016	18-May-16	9								
2016	18-May-16	10								
2016	18-May-16	11								
2016	18-May-16	12								
2016	18-May-16	13								
2016	18-May-16	14								
2016	18-May-16	15								
2016	18-May-16	16								
2016	18-May-16	17								
2016	18-May-16	18								
2016	18-May-16	19								
2016	18-May-16	20								
2016	18-May-16	21								
2016	18-May-16	22								
2016	18-May-16	23								
2016	19-May-16	0								
2016	19-May-16	1								
2016	19-May-16	2								
2016	19-May-16	3								
2016	19-May-16	4								
2016	19-May-16	5								
2016	19-May-16	6								
2016	19-May-16	7								
2016	19-May-16	8								
2016	19-May-16	9								
2016	19-May-16	10								
2016	19-May-16	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	19-May-16	12								
2016	19-May-16	13								
2016	19-May-16	14								
2016	19-May-16	15								
2016	19-May-16	16								
2016	19-May-16	17								
2016	19-May-16	18								
2016	19-May-16	19								
2016	19-May-16	20								
2016	19-May-16	21								
2016	19-May-16	22								
2016	19-May-16	23								
2016	20-May-16	0								
2016	20-May-16	1								
2016	20-May-16	2								
2016	20-May-16	3								
2016	20-May-16	4								
2016	20-May-16	5								
2016	20-May-16	6								
2016	20-May-16	7								
2016	20-May-16	8								
2016	20-May-16	9								
2016	20-May-16	10							44.85	
2016	20-May-16	11							0.2	
2016	20-May-16	12							0	
2016	20-May-16	13							0	
2016	20-May-16	14							0	
2016	20-May-16	15							1.7	
2016	20-May-16	16							8.3	
2016	20-May-16	17							17.7	
2016	20-May-16	18							24.3	
2016	20-May-16	19							29.9	
2016	20-May-16	20							31.8	
2016	20-May-16	21							35.9	
2016	20-May-16	22							39.6	
2016	20-May-16	23							43.4	
2016	21-May-16	0							47.7	
2016	21-May-16	1							50.1	
2016	21-May-16	2							52.3	
2016	21-May-16	3							57.7	
2016	21-May-16	4							75.6	
2016	21-May-16	5							115.5	
2016	21-May-16	6							177.9	
2016	21-May-16	7							308.3	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-May-16	8							417.8	
2016	21-May-16	9							419.4	
2016	21-May-16	10							513.8	
2016	21-May-16	11							473.4	
2016	21-May-16	12							475.3	
2016	21-May-16	13							494	
2016	21-May-16	14							462.3	
2016	21-May-16	15							466	
2016	21-May-16	16							436.9	
2016	21-May-16	17							451.1	
2016	21-May-16	18							446.6	
2016	21-May-16	19							431.8	
2016	21-May-16	20							431.2	
2016	21-May-16	21							408.4	
2016	21-May-16	22							393.6	
2016	21-May-16	23							400.5	
2016	22-May-16	0							397.3	
2016	22-May-16	1							397	
2016	22-May-16	2							401.2	
2016	22-May-16	3							396.2	
2016	22-May-16	4							403.2	
2016	22-May-16	5							420.1	
2016	22-May-16	6							416.8	
2016	22-May-16	7							406.5	
2016	22-May-16	8							352.7	
2016	22-May-16	9							82.343	
2016	22-May-16	10								
2016	22-May-16	11								
2016	22-May-16	12								
2016	22-May-16	13								
2016	22-May-16	14								
2016	22-May-16	15								
2016	22-May-16	16								
2016	22-May-16	17			0.024					
2016	22-May-16	18			0.061					
2016	22-May-16	19			0.07					
2016	22-May-16	20			0.08					
2016	22-May-16	21			0.08					
2016	22-May-16	22			0.064					
2016	22-May-16	23			0.058					
2016	23-May-16	0			0.035					
2016	23-May-16	1			0.075					
2016	23-May-16	2			0.079					
2016	23-May-16	3			0.169					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-May-16	4			0.066					
2016	23-May-16	5								
2016	23-May-16	6								
2016	23-May-16	7								
2016	23-May-16	8								
2016	23-May-16	9								
2016	23-May-16	10								
2016	23-May-16	11								
2016	23-May-16	12								
2016	23-May-16	13								
2016	23-May-16	14								
2016	23-May-16	15								
2016	23-May-16	16								
2016	23-May-16	17								
2016	23-May-16	18								
2016	23-May-16	19								
2016	23-May-16	20								
2016	23-May-16	21		0						
2016	23-May-16	22		0						
2016	23-May-16	23		0						
2016	24-May-16	0		0						
2016	24-May-16	1		0						
2016	24-May-16	2		0						
2016	24-May-16	3		0						
2016	24-May-16	4		0						
2016	24-May-16	5		0						
2016	24-May-16	6		0						
2016	24-May-16	7		0						
2016	24-May-16	8		0						
2016	24-May-16	9		0						
2016	24-May-16	10		0						
2016	24-May-16	11		0						
2016	24-May-16	12		0						
2016	24-May-16	13		0						
2016	24-May-16	14		0						
2016	24-May-16	15		0						
2016	24-May-16	16		0						
2016	24-May-16	17		0						
2016	24-May-16	18		0						
2016	24-May-16	19		0	0.034					
2016	24-May-16	20		0	0.061					
2016	24-May-16	21		0	0.061					
2016	24-May-16	22		0	0.061					
2016	24-May-16	23		75	0.061					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	25-May-16	0		50.6	0.061					
2016	25-May-16	1		124.1	0.061					
2016	25-May-16	2		189.8	0.061					
2016	25-May-16	3		306.6	0.061					
2016	25-May-16	4		429.2	0.101					
2016	25-May-16	5		470.4	0.187					
2016	25-May-16	6		327.4	0.324					
2016	25-May-16	7		426.6	0.037					
2016	25-May-16	8		378						
2016	25-May-16	9		310						
2016	25-May-16	10		288.9						
2016	25-May-16	11		295.4						
2016	25-May-16	12		290.5						
2016	25-May-16	13		320.1						
2016	25-May-16	14		441.1						
2016	25-May-16	15		550						
2016	25-May-16	16		533.8						
2016	25-May-16	17		538.4						
2016	25-May-16	18		379						
2016	25-May-16	19		330.7						
2016	25-May-16	20		337.9						
2016	25-May-16	21		226						
2016	25-May-16	22		174.8						
2016	25-May-16	23		368.7						
2016	26-May-16	0		529						
2016	26-May-16	1		384.7						
2016	26-May-16	2		268.8						
2016	26-May-16	3		195.2						
2016	26-May-16	4		222						
2016	26-May-16	5		501.4						
2016	26-May-16	6		541.4						
2016	26-May-16	7		287.8						
2016	26-May-16	8		173.5						
2016	26-May-16	9		180.3						
2016	26-May-16	10		198.1						
2016	26-May-16	11		275.4						
2016	26-May-16	12		685.6						
2016	26-May-16	13		719.1						
2016	26-May-16	14		598.5						
2016	26-May-16	15		617.4						
2016	26-May-16	16		477.9						
2016	26-May-16	17		193.4						
2016	26-May-16	18		134.6						
2016	26-May-16	19		87.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	26-May-16	20		82.4						
2016	26-May-16	21		112.3						
2016	26-May-16	22		108.9						
2016	26-May-16	23		127.2						
2016	27-May-16	0		113.8						
2016	27-May-16	1		98.8						
2016	27-May-16	2		76.3						
2016	27-May-16	3		51.2						
2016	27-May-16	4		43.6						
2016	27-May-16	5		89.5						
2016	27-May-16	6		76.4						
2016	27-May-16	7		69.5						
2016	27-May-16	8		62.3						
2016	27-May-16	9		62.2						
2016	27-May-16	10		100.4						
2016	27-May-16	11		169						
2016	27-May-16	12		153.6						
2016	27-May-16	13		159.1						
2016	27-May-16	14		217.7						
2016	27-May-16	15		406.3						
2016	27-May-16	16		790.6						
2016	27-May-16	17		1259	0.002					
2016	27-May-16	18		848.1	0.033					
2016	27-May-16	19		327.8	0.032					
2016	27-May-16	20		170.5	0.032					
2016	27-May-16	21		239.4	0.032					
2016	27-May-16	22		172.1	0.034					
2016	27-May-16	23		122.6	0.06					
2016	28-May-16	0		133.1	0.062					
2016	28-May-16	1		139.8	0.079					
2016	28-May-16	2		153.5	0.07					
2016	28-May-16	3		185.5	0.069					
2016	28-May-16	4		212.4	0.098					
2016	28-May-16	5		191.8	0.187					
2016	28-May-16	6		176.1	0.295					
2016	28-May-16	7		220.3	0.311					
2016	28-May-16	8		259.5	0.303					
2016	28-May-16	9		284.1	0.303					
2016	28-May-16	10		292.1	0.303					
2016	28-May-16	11		301.4	0.303					
2016	28-May-16	12		318.4	0.309					
2016	28-May-16	13		293.6	0.332					
2016	28-May-16	14		324.7	0.31					
2016	28-May-16	15		417.9	0.345					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-May-16	16		254.4	0.336					
2016	28-May-16	17		291.2	0.38					
2016	28-May-16	18		124.6	0.282					
2016	28-May-16	19		79.9	0.027					
2016	28-May-16	20		145						
2016	28-May-16	21		187.4						
2016	28-May-16	22		186						
2016	28-May-16	23		187.8						
2016	29-May-16	0		183.3						
2016	29-May-16	1		194.3						
2016	29-May-16	2		188						
2016	29-May-16	3		192.3						
2016	29-May-16	4		215.7						
2016	29-May-16	5		244.4						
2016	29-May-16	6		292.2						
2016	29-May-16	7		326.9						
2016	29-May-16	8		353.1						
2016	29-May-16	9		368.9						
2016	29-May-16	10		360.7						
2016	29-May-16	11		362.8						
2016	29-May-16	12		346.6						
2016	29-May-16	13		344.3						
2016	29-May-16	14		329.7						
2016	29-May-16	15		319.4						
2016	29-May-16	16		319.4						
2016	29-May-16	17		345.9						
2016	29-May-16	18		310.6						
2016	29-May-16	19		281.3						
2016	29-May-16	20		260.6						
2016	29-May-16	21		236.3						
2016	29-May-16	22		240.4						
2016	29-May-16	23		254.4						
2016	30-May-16	0		224.3						
2016	30-May-16	1		223.4						
2016	30-May-16	2		229.2						
2016	30-May-16	3		227.6						
2016	30-May-16	4		236.8						
2016	30-May-16	5		256.8						
2016	30-May-16	6		322						
2016	30-May-16	7		324.8						
2016	30-May-16	8		303.5						
2016	30-May-16	9		329.9						
2016	30-May-16	10		359.1						
2016	30-May-16	11		354.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	30-May-16	12		335.7						
2016	30-May-16	13		349.5						
2016	30-May-16	14		341.8						
2016	30-May-16	15		307.8						
2016	30-May-16	16		299.3						
2016	30-May-16	17		303.6						
2016	30-May-16	18		312.5						
2016	30-May-16	19		310.7						
2016	30-May-16	20		323.5						
2016	30-May-16	21		309.2						
2016	30-May-16	22		314.8						
2016	30-May-16	23		318.7						
2016	31-May-16	0		332.8						
2016	31-May-16	1		340						
2016	31-May-16	2		330.8						
2016	31-May-16	3		334.7						
2016	31-May-16	4		335						
2016	31-May-16	5		345.4						
2016	31-May-16	6		388.2						
2016	31-May-16	7		395.8						
2016	31-May-16	8		381.8						
2016	31-May-16	9		453.1						
2016	31-May-16	10		454.2						
2016	31-May-16	11		399.3						
2016	31-May-16	12		560.1						
2016	31-May-16	13		720.5						
2016	31-May-16	14		737.3						
2016	31-May-16	15		730						
2016	31-May-16	16		657.2						
2016	31-May-16	17		348.7						
2016	31-May-16	18		265.9						
2016	31-May-16	19		246.4						
2016	31-May-16	20		297						
2016	31-May-16	21		275.6						
2016	31-May-16	22		320.1						
2016	31-May-16	23		185.2						
2016	1-Jun-16	0		145.1						
2016	1-Jun-16	1		152.2						
2016	1-Jun-16	2		152.8						
2016	1-Jun-16	3		152.8						
2016	1-Jun-16	4		155						
2016	1-Jun-16	5		156.7						
2016	1-Jun-16	6		201.3						
2016	1-Jun-16	7		374.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-Jun-16	8		406.3						
2016	1-Jun-16	9		591.8						
2016	1-Jun-16	10		606						
2016	1-Jun-16	11		617.3						
2016	1-Jun-16	12		699.6						
2016	1-Jun-16	13		772.6						
2016	1-Jun-16	14		1020.6						
2016	1-Jun-16	15		638.5						
2016	1-Jun-16	16		1056.1						
2016	1-Jun-16	17		988.4						
2016	1-Jun-16	18		608.5						
2016	1-Jun-16	19		852.3						
2016	1-Jun-16	20		1513.7						
2016	1-Jun-16	21		768						
2016	1-Jun-16	22		491.8						
2016	1-Jun-16	23		553.8						
2016	2-Jun-16	0		301						
2016	2-Jun-16	1		182.2						
2016	2-Jun-16	2		204.3						
2016	2-Jun-16	3		203.3						
2016	2-Jun-16	4		199.2						
2016	2-Jun-16	5		202.8						
2016	2-Jun-16	6		208						
2016	2-Jun-16	7		215.9						
2016	2-Jun-16	8		226.9						
2016	2-Jun-16	9		227.7						
2016	2-Jun-16	10		292.2						
2016	2-Jun-16	11		600.8						
2016	2-Jun-16	12		1065.7						
2016	2-Jun-16	13		979.9						
2016	2-Jun-16	14		1065.8						
2016	2-Jun-16	15		1114.8						
2016	2-Jun-16	16		1018.4						
2016	2-Jun-16	17		769.9						
2016	2-Jun-16	18		890.9						
2016	2-Jun-16	19		959.2						
2016	2-Jun-16	20		917.3						
2016	2-Jun-16	21		614.6						
2016	2-Jun-16	22		457.5						
2016	2-Jun-16	23		461.6						
2016	3-Jun-16	0		289.4						
2016	3-Jun-16	1		240.5						
2016	3-Jun-16	2		250.6						
2016	3-Jun-16	3		253.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	3-Jun-16	4		248.6						
2016	3-Jun-16	5		236.3						
2016	3-Jun-16	6		246.6						
2016	3-Jun-16	7		237.3						
2016	3-Jun-16	8		283.7						
2016	3-Jun-16	9		548.1						
2016	3-Jun-16	10		1182.9						
2016	3-Jun-16	11		2074.1						
2016	3-Jun-16	12		1083.4						
2016	3-Jun-16	13		841.4						
2016	3-Jun-16	14		879.8						
2016	3-Jun-16	15		954.9						
2016	3-Jun-16	16		928.5						
2016	3-Jun-16	17		923.6						
2016	3-Jun-16	18		888.3						
2016	3-Jun-16	19		868.5						
2016	3-Jun-16	20		863.7						
2016	3-Jun-16	21		877.7						
2016	3-Jun-16	22		861.2						
2016	3-Jun-16	23		579.2						
2016	4-Jun-16	0		285.7						
2016	4-Jun-16	1		264.2						
2016	4-Jun-16	2		248.5						
2016	4-Jun-16	3		202.3						
2016	4-Jun-16	4		206.5						
2016	4-Jun-16	5		192						
2016	4-Jun-16	6		224.5						
2016	4-Jun-16	7		453.6						
2016	4-Jun-16	8		631.9						
2016	4-Jun-16	9		608.7						
2016	4-Jun-16	10		803.5						
2016	4-Jun-16	11		847.3						
2016	4-Jun-16	12		625.8						
2016	4-Jun-16	13		561.2						
2016	4-Jun-16	14		455.9						
2016	4-Jun-16	15		492.6						
2016	4-Jun-16	16		672						
2016	4-Jun-16	17		1317						
2016	4-Jun-16	18	0	1798.9						
2016	4-Jun-16	19	0	1582.1						
2016	4-Jun-16	20	0	1321.6						
2016	4-Jun-16	21	0	999.4						
2016	4-Jun-16	22	0	763.4						
2016	4-Jun-16	23	0	553.9						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	5-Jun-16	0	0	436.7						
2016	5-Jun-16	1	0	289.5						
2016	5-Jun-16	2	0	250.8						
2016	5-Jun-16	3	0	252.9						
2016	5-Jun-16	4	0	255.1						
2016	5-Jun-16	5	0	257.2						
2016	5-Jun-16	6	0	289.3						
2016	5-Jun-16	7	0	264.4						
2016	5-Jun-16	8	0	280						
2016	5-Jun-16	9	0	291.3						
2016	5-Jun-16	10	51.8	576.2						
2016	5-Jun-16	11	70.4	935						
2016	5-Jun-16	12	55.4	755.6						
2016	5-Jun-16	13	38.1	590.7						
2016	5-Jun-16	14	30	912.3						2.1
2016	5-Jun-16	15	166.3	964.7						21
2016	5-Jun-16	16	170.9	775.7						1.5
2016	5-Jun-16	17	57.552	941.1						0.3
2016	5-Jun-16	18		1037.7						1.3
2016	5-Jun-16	19	0	1072.4						0.3
2016	5-Jun-16	20	58.6	1093.1						0
2016	5-Jun-16	21	22.2	1115.5						0
2016	5-Jun-16	22	19.8	1096.4						0
2016	5-Jun-16	23	46.2	841.4						0
2016	6-Jun-16	0	152	858.4						0
2016	6-Jun-16	1	557	590.8						0
2016	6-Jun-16	2	471.4	344.9						0
2016	6-Jun-16	3	631.5	282.5						0
2016	6-Jun-16	4	769.3	317.2						0
2016	6-Jun-16	5	990.2	681.3						0
2016	6-Jun-16	6	774.7	572.8						0
2016	6-Jun-16	7	1236.7	730.1						6.5
2016	6-Jun-16	8	1641.9	512.3						80.3
2016	6-Jun-16	9	1770.6	368.3	0.006					67.8
2016	6-Jun-16	10	1719.1	203.5	0.033					77.2
2016	6-Jun-16	11	1694.6	179.2	0.033					180.8
2016	6-Jun-16	12	1688.4	181.9	0.033					204.9
2016	6-Jun-16	13	1595.9	274.6	0.033					237.8
2016	6-Jun-16	14	1613.4	376.1	0.056					209.76
2016	6-Jun-16	15	1631.3	702.7	0.062					3.306
2016	6-Jun-16	16	1623.2	381.6	0.075					0.9
2016	6-Jun-16	17	1337.2	320.3	0.079					1.2
2016	6-Jun-16	18	767	248.6	0.079		0			32.7
2016	6-Jun-16	19	458.9	219.7	0.079		0.3			132.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-Jun-16	20	479.3	254.8	0.064		0			87.5
2016	6-Jun-16	21	713.3	226.3	0.062		0			79.3
2016	6-Jun-16	22	697.4	230.9	0.062		0			86.2
2016	6-Jun-16	23	643.6	233.7	0.063		0			89.3
2016	7-Jun-16	0	687.5	230.4	0.079		49.6			87.8
2016	7-Jun-16	1	704.8	238	0.063		128.1			89.5
2016	7-Jun-16	2	725.2	233.1	0.062		160.8			80.7
2016	7-Jun-16	3	720.1	229.9	0.062		126.1			74.3
2016	7-Jun-16	4	724	489.8	0.062		104.6			73.7
2016	7-Jun-16	5	754.7	755.5	0.061		52.5			76.7
2016	7-Jun-16	6	820.2	841	0.061		49.8			77.2
2016	7-Jun-16	7	379.5	834.9	0.061		95.4			76.2
2016	7-Jun-16	8	291.3	815.3	0.062		457.7			74
2016	7-Jun-16	9	242.3	769.2	0.062		1468.1			68
2016	7-Jun-16	10	223.8	711.7	0.058		1804.4			67.5
2016	7-Jun-16	11	251.7	796.6	0.033		2080			97.2
2016	7-Jun-16	12	279.5	789.4	0.012		2019.4			15.03
2016	7-Jun-16	13	281.5	739.6			1882.6			
2016	7-Jun-16	14	236.4	723.7			1920.5			
2016	7-Jun-16	15	299.6	805.7			1924.2			
2016	7-Jun-16	16	301.4	715			1938.5			
2016	7-Jun-16	17	300.2	366.5			1995.4			
2016	7-Jun-16	18	277.8	158.8			2194.6			
2016	7-Jun-16	19	315.4	117.5			2162.6			
2016	7-Jun-16	20	310.7	173.5			2187.8			
2016	7-Jun-16	21	309	238.7			1984.5			
2016	7-Jun-16	22	289.1	247.1			1971			
2016	7-Jun-16	23	103.9	276.8			1973.3			
2016	8-Jun-16	0		261.2			1970.9			
2016	8-Jun-16	1		262.1			1978.9			
2016	8-Jun-16	2		253			2308.6			
2016	8-Jun-16	3		235.5			2845.1			
2016	8-Jun-16	4		237.7			2974.4			
2016	8-Jun-16	5		265.1			3212.5			
2016	8-Jun-16	6		577.7			3390.4			
2016	8-Jun-16	7		850			3420.4			
2016	8-Jun-16	8		882.6			3437.3			
2016	8-Jun-16	9		914.6			3445.4			
2016	8-Jun-16	10		780.2			3453.1			
2016	8-Jun-16	11		785.7			3434.3			
2016	8-Jun-16	12		465.434			3442.4			
2016	8-Jun-16	13		4.176			3425.5			
2016	8-Jun-16	14		9.1			3422			
2016	8-Jun-16	15		12	0.003		3430.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	8-Jun-16	16		18.7	0.034		3400.2			
2016	8-Jun-16	17		62	0.057		3379.9			
2016	8-Jun-16	18		232.1	0.077		3171.3			
2016	8-Jun-16	19		476.5	0.077		2684.9			
2016	8-Jun-16	20		334.5	0.056		1941.3			
2016	8-Jun-16	21		267.7	0.062		1207.1			
2016	8-Jun-16	22		242.8	0.062		528.3			
2016	8-Jun-16	23		212.7	0.062		126.306			
2016	9-Jun-16	0		222.8	0.062					
2016	9-Jun-16	1		226.6	0.062					
2016	9-Jun-16	2		196.9	0.061					
2016	9-Jun-16	3		216.8	0.062					
2016	9-Jun-16	4		247.5	0.062					
2016	9-Jun-16	5		232.9	0.014					
2016	9-Jun-16	6		214.7						
2016	9-Jun-16	7		217.2						
2016	9-Jun-16	8		235.5						
2016	9-Jun-16	9		345.7						
2016	9-Jun-16	10		564.6						
2016	9-Jun-16	11	0	727.9						
2016	9-Jun-16	12	0	709.6						
2016	9-Jun-16	13	0	743.7						
2016	9-Jun-16	14	0	753.2						
2016	9-Jun-16	15	0	753.7						
2016	9-Jun-16	16	0	723.4						
2016	9-Jun-16	17	0	761.2						
2016	9-Jun-16	18	28.4	871						
2016	9-Jun-16	19	97.7	443.7						
2016	9-Jun-16	20	127.8	258.3						
2016	9-Jun-16	21	282.6	180						
2016	9-Jun-16	22	180	132.5						
2016	9-Jun-16	23	542.8	145.6						
2016	10-Jun-16	0	616	237.2						
2016	10-Jun-16	1	380.5	245.4						
2016	10-Jun-16	2	302.3	247.1						
2016	10-Jun-16	3	278	247.4						
2016	10-Jun-16	4	281.3	236.7						
2016	10-Jun-16	5	276.6	227.9						
2016	10-Jun-16	6	253	225.8						
2016	10-Jun-16	7	245.2	222.8						
2016	10-Jun-16	8	250.8	217.1						
2016	10-Jun-16	9	249.8	364.5						
2016	10-Jun-16	10	820.3	514.3						
2016	10-Jun-16	11	921.5	622.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-Jun-16	12	438.6	1025						
2016	10-Jun-16	13	314	1153.4						
2016	10-Jun-16	14	291.6	1175.8						
2016	10-Jun-16	15	297.5	1015.5						0
2016	10-Jun-16	16	294.3	999						0
2016	10-Jun-16	17	304.4	908						0.582
2016	10-Jun-16	18	299.5	1015.2						0.1
2016	10-Jun-16	19	295.7	1059.5						0
2016	10-Jun-16	20	314.9	1102.5						0
2016	10-Jun-16	21	310.7	953.3	0.016					3.8
2016	10-Jun-16	22	312.8	693.2	0.032					2
2016	10-Jun-16	23	298.4	556.5	0.045					0.6
2016	11-Jun-16	0	307.8	838.2	0.062					0.2
2016	11-Jun-16	1	314.6	481.8	0.062					0
2016	11-Jun-16	2	325.6	307.1	0.062					0
2016	11-Jun-16	3	309.2	288.4	0.045					0
2016	11-Jun-16	4	305.3	291.8	0.049					8
2016	11-Jun-16	5	290.6	286	0.058					45
2016	11-Jun-16	6	296.5	266	0.063					118.5
2016	11-Jun-16	7	306	275.3	0.086					187.9
2016	11-Jun-16	8	294	273.6	0.23					204.3
2016	11-Jun-16	9	309.2	324.9	0.326					226.2
2016	11-Jun-16	10	324	316.1	0.321					260.2
2016	11-Jun-16	11	346.2	326.4	0.316					230
2016	11-Jun-16	12	308.2	305.7	0.313					230.5
2016	11-Jun-16	13	360.2	416.5	0.343					244.6
2016	11-Jun-16	14	842	744.5	0.41					334.3
2016	11-Jun-16	15	1182.3	926.4	0.383					446.4
2016	11-Jun-16	16	912.5	974.9	0.595					558.3
2016	11-Jun-16	17	906.7	945.1	0.42					371.1
2016	11-Jun-16	18	973.9	1001.3	0.429					332.9
2016	11-Jun-16	19	858.4	1028	0.411		0			401.9
2016	11-Jun-16	20	908.3	1088.8	0.402		0			440.1
2016	11-Jun-16	21	747.3	870.3	0.314		0			417.5
2016	11-Jun-16	22	602	606.1	0.304		9.2			406
2016	11-Jun-16	23	665.6	430.2	0.241		245.6			397.5
2016	12-Jun-16	0	436.8	548.4	0.038		300.8			395.5
2016	12-Jun-16	1	319.7	466.3	0.034		315.4			388.1
2016	12-Jun-16	2	316.4	313.4	0.042		330.7			414.8
2016	12-Jun-16	3	317.6	260.8	0.054		336			410.4
2016	12-Jun-16	4	315.6	267.2	0.033		330.4			227
2016	12-Jun-16	5	330.5	316.5	0.042		254.9			227.6
2016	12-Jun-16	6	330.2	317.6	0.061		274.4			226.2
2016	12-Jun-16	7	324	313.9	0.061		351.5			224.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-Jun-16	8	320.4	283.2	0.037		470.6			223.3
2016	12-Jun-16	9	313.1	275.3	0.034		1358.4			223.6
2016	12-Jun-16	10	312.2	266.2	0.051		1851.7			225.6
2016	12-Jun-16	11	457.7	504.7			2290.1			226.5
2016	12-Jun-16	12	1003	807.8			2858.4			218.5
2016	12-Jun-16	13	813.9	588.4			3005.1			217
2016	12-Jun-16	14	829.8	571.8			3070.3			215.2
2016	12-Jun-16	15	726.7	567.3			3046.7			211.6
2016	12-Jun-16	16	588.1	518.7			2842.5			209.6
2016	12-Jun-16	17	679.7	485.9			2948.6			208.2
2016	12-Jun-16	18	639.9	426			2894			208.9
2016	12-Jun-16	19	491.8	288.2			2551			205.2
2016	12-Jun-16	20	454.3	262			2751.4			207.3
2016	12-Jun-16	21	369.6	255.7			2767.4			200.2
2016	12-Jun-16	22	317.1	282.9			2713.4			201.9
2016	12-Jun-16	23	296.4	266.8			2363			48.2
2016	13-Jun-16	0	301	256.2			2395			10.8
2016	13-Jun-16	1	302.3	237.6			2409.2			5.9
2016	13-Jun-16	2	285	257.3			2397.1			0.054
2016	13-Jun-16	3	294	255.2			2393.9			
2016	13-Jun-16	4	294.6	250.3			2375.2			
2016	13-Jun-16	5	295.4	253.2			2317.6			
2016	13-Jun-16	6	300.6	245.7			2307.8			
2016	13-Jun-16	7	476.3	265.9			2740.2			
2016	13-Jun-16	8	464.2	266.1			3038.4			
2016	13-Jun-16	9	619.6	285.9			3186.9			
2016	13-Jun-16	10	1070.8	503.5			3361.6			
2016	13-Jun-16	11	762.6	809.4			3565.9			
2016	13-Jun-16	12	663.6	883.9			3667.6			
2016	13-Jun-16	13	444.5	616			3637.2			
2016	13-Jun-16	14	802.2	507.4			3588.7			
2016	13-Jun-16	15	1331.4	771.3			3795.1			
2016	13-Jun-16	16	655.2	1001.6			3955.5			
2016	13-Jun-16	17	714.9	988.6			3986.8			
2016	13-Jun-16	18	464.6	878.1			3630.1			
2016	13-Jun-16	19	416.9	812			3370.1			
2016	13-Jun-16	20	514.7	929.2			3517.4			
2016	13-Jun-16	21	457	728.5			3141.7			
2016	13-Jun-16	22	341.1	566.9			2903.3			
2016	13-Jun-16	23	198.2	410.9			2554.2			
2016	14-Jun-16	0	129.3	315.8			2175.6			
2016	14-Jun-16	1	118.6	228.5			2023.6			
2016	14-Jun-16	2	111.1	214.8			1944.5			
2016	14-Jun-16	3	113.9	229.4			1894.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	14-Jun-16	4	111.9	221.3			1823.9			
2016	14-Jun-16	5	88.7	209.9			1757.8			
2016	14-Jun-16	6	100.2	174			1761.8			
2016	14-Jun-16	7	116	174.9			2121.6			
2016	14-Jun-16	8	182.9	260.6			3086.7			
2016	14-Jun-16	9	416.9	453.8			3491.7			
2016	14-Jun-16	10	634.8	425.4			3749.4			
2016	14-Jun-16	11	939.5	752.9			3783			
2016	14-Jun-16	12	796.8	652.7			3806.8			
2016	14-Jun-16	13	860.8	697.4			3817.3			
2016	14-Jun-16	14	855.3	590.3	0.013		3874.6			
2016	14-Jun-16	15	1057.4	840.5	0.033		3912.5			
2016	14-Jun-16	16	913.3	890.1	0.033		3755.8			
2016	14-Jun-16	17	1010.1	900.2	0.045		3755.1			
2016	14-Jun-16	18	819.5	858	0.061		3625.9			
2016	14-Jun-16	19	462.9	707.7	0.07		3409.2			
2016	14-Jun-16	20	552.5	600.8	0.08		3448.3			
2016	14-Jun-16	21	294.3	446.7	0.06		2982.5			
2016	14-Jun-16	22	419.1	349	0.052		2624.9			
2016	14-Jun-16	23	313.3	251.1	0.072		2280.1			
2016	15-Jun-16	0	311.3	408.8	0.106		2136.4			
2016	15-Jun-16	1	295.8	286.9	0.259		2150			
2016	15-Jun-16	2	292.9	263.1	0.311		2176.8			
2016	15-Jun-16	3	292	257.1	0.309		2129.5			
2016	15-Jun-16	4	286	288.1	0.308		2172.4			
2016	15-Jun-16	5	317.8	306.1	0.307		2409.4			
2016	15-Jun-16	6	441.4	290.7	0.307		2662			
2016	15-Jun-16	7	406.9	287.9	0.309		2822.9			
2016	15-Jun-16	8	585.4	332.3	0.307		2987.6			
2016	15-Jun-16	9	714.1	383.8	0.305		2989.8			
2016	15-Jun-16	10	1025.6	337.4	0.3		2922.7			
2016	15-Jun-16	11	869.2	417.9	0.3		2992.3			
2016	15-Jun-16	12	1075.5	480.2	0.31		3138			
2016	15-Jun-16	13	1178.4	1143	0.47		3462			
2016	15-Jun-16	14	1240.8	795.8	0.594		3534			
2016	15-Jun-16	15	1194	979.3	0.72		3511.7			
2016	15-Jun-16	16	1229.4	1007.5	0.731		3481.2			
2016	15-Jun-16	17	1116.8	1014.5	0.699		3498			
2016	15-Jun-16	18	1132.3	972.6	0.502		3474.8			
2016	15-Jun-16	19	1199.3	1057.4	0.336		3550.4			
2016	15-Jun-16	20	1137.2	833.1	0.302		3383.7			
2016	15-Jun-16	21	969.2	572.8	0.304		3083.1			
2016	15-Jun-16	22	716.1	466.6	0.3		2959.5			
2016	15-Jun-16	23	431.6	284.6	0.3		2626.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	16-Jun-16	0	401.8	426.9	0.305		2273.6			
2016	16-Jun-16	1	336.8	361.8	0.304		2040.3			
2016	16-Jun-16	2	292.2	375.8	0.305		1983.9			
2016	16-Jun-16	3	293.4	405.6	0.302		2008.9			
2016	16-Jun-16	4	320.9	382.4	0.299		2010.8			
2016	16-Jun-16	5	426.9	446.2	0.301		2217.2			
2016	16-Jun-16	6	386.3	460.2	0.31		2512.9			
2016	16-Jun-16	7	207.4	565	0.375		2846.4			
2016	16-Jun-16	8	341.1	402	0.331		3049.5			
2016	16-Jun-16	9	598.4	403.2	0.358		3414.2			
2016	16-Jun-16	10	959.4	600.9	0.459		3423.4			
2016	16-Jun-16	11	841.7	856.2	0.428		3326.6			
2016	16-Jun-16	12	869.9	1550.5	0.459		3351.1			
2016	16-Jun-16	13	1150.1	1220.6	0.681		3362.2			
2016	16-Jun-16	14	1168.6	1105.6	0.677		3339.3			
2016	16-Jun-16	15	1163.9	1152.6	0.561		3327.9			
2016	16-Jun-16	16	1250.8	1174.5	0.566		3336.7			
2016	16-Jun-16	17	1219.8	1185	0.749		3335.2			
2016	16-Jun-16	18	1209.1	1186.5	0.53		3334.2			
2016	16-Jun-16	19	1182.9	1139.7	0.451		3329.1			
2016	16-Jun-16	20	1114.5	1097.5	0.345		3211.1			
2016	16-Jun-16	21	488.5	869.7	0.295		2842.3			
2016	16-Jun-16	22	723.4	679	0.276		2500			
2016	16-Jun-16	23	481.8	536.7	0.036		2152.4			
2016	17-Jun-16	0	371.1	659.9			1906.6			
2016	17-Jun-16	1	351.3	517.6			1900.2			
2016	17-Jun-16	2	351.9	470			1902.9			
2016	17-Jun-16	3	337.5	374.4			1922.5			
2016	17-Jun-16	4	321.9	243.4			1890.6			
2016	17-Jun-16	5	325.6	234.5			1919.3			
2016	17-Jun-16	6	328.6	254.4			1921.9			
2016	17-Jun-16	7	335	243			2024.2			
2016	17-Jun-16	8	330.6	234.9			2268.7			
2016	17-Jun-16	9	296	200.9			2153.4			
2016	17-Jun-16	10	315.7	220			2317			
2016	17-Jun-16	11	370.8	233			2504.4			
2016	17-Jun-16	12	440.2	256.6			2678			
2016	17-Jun-16	13	648.5	380.8			2857.9			
2016	17-Jun-16	14	936.2	451.1			3035.6			
2016	17-Jun-16	15	1041.6	711			3157.4			
2016	17-Jun-16	16	466.1	793.4			3126.2			
2016	17-Jun-16	17	736	1233.5			3241.6			
2016	17-Jun-16	18	802.4	1361			3289.9			
2016	17-Jun-16	19	530.2	1025.5			3134.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-Jun-16	20	456.2	699.6			2992.7			
2016	17-Jun-16	21	687.1	416.4			2850.9			
2016	17-Jun-16	22	487.3	493.2			2579.1			
2016	17-Jun-16	23	357.9	521.3			2326.6			
2016	18-Jun-16	0	312.9	563.5			2093.3			
2016	18-Jun-16	1	313.7	661.5			1936.3			
2016	18-Jun-16	2	314.1	643.3			1959.5			
2016	18-Jun-16	3	294.1	615.6			1977			
2016	18-Jun-16	4	301.8	589.7			1963.8			
2016	18-Jun-16	5	308.1	555.6			1985.1			
2016	18-Jun-16	6	305.9	563.4			1985.4			
2016	18-Jun-16	7	327.5	528.1			2068.5			
2016	18-Jun-16	8	304.6	560			2057.4			
2016	18-Jun-16	9	315.8	538.1			2392.8			
2016	18-Jun-16	10	493.9	710.9			2785.9			
2016	18-Jun-16	11	856.4	538.8			2967.5			
2016	18-Jun-16	12	1353.7	677.2			3179.1			
2016	18-Jun-16	13	1175.9	559.8			3024			
2016	18-Jun-16	14	1418.2	628.1			3086.2			
2016	18-Jun-16	15	1788.1	926.5			3263.9			
2016	18-Jun-16	16	887.3	572.4			3252.9			
2016	18-Jun-16	17	755.4	526.3			3252.8			
2016	18-Jun-16	18	777.6	710.1			3290.2			
2016	18-Jun-16	19	843.8	683.7			3254.8			
2016	18-Jun-16	20	728	548.2			3226			
2016	18-Jun-16	21	488.5	393.1			3178.9			
2016	18-Jun-16	22	743.7	420.7			3046.5			
2016	18-Jun-16	23	508.7	415.6			2713.8			
2016	19-Jun-16	0	378.1	303.7			2392.5			
2016	19-Jun-16	1	302.8	209.3			2093.3			
2016	19-Jun-16	2	295	173.4			2074.5			
2016	19-Jun-16	3	222.8	213.6			2053			
2016	19-Jun-16	4	222	218.8			2063.2			
2016	19-Jun-16	5	216.7	209.5			2053		0	
2016	19-Jun-16	6	221.7	186.8			2046.5		0	
2016	19-Jun-16	7	237.3	202.8			2027.9		0	
2016	19-Jun-16	8	235.1	246.4			2149.1		0	
2016	19-Jun-16	9	253.2	217.4			2117.3		0	
2016	19-Jun-16	10	273.4	202.4			2346.6		0	
2016	19-Jun-16	11	346.5	303.9			2681.1		0	
2016	19-Jun-16	12	473.2	379.6			3008		0	
2016	19-Jun-16	13	492.8	438.8			3003.4		0.2	
2016	19-Jun-16	14	594	554.6			2860.5		5.3	0
2016	19-Jun-16	15	922.3	988			3139.9		14	0



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	19-Jun-16	16	1096.1	646.2	0.02		3349.1		20.9	0.6
2016	19-Jun-16	17	1278.9	648.6	0.062		3385.8		25.5	1.3
2016	19-Jun-16	18	1740.7	761.9	0.069		3450.8		29.8	0.1
2016	19-Jun-16	19	634.6	708.7	0.061		3369.8		43.8	0
2016	19-Jun-16	20	787.5	798.4	0.079		3409.8		85	0
2016	19-Jun-16	21	540	674.5	0.074		3352.8	0.01	113.2	0
2016	19-Jun-16	22	434.9	593.1	0.063		3147.3	0.087	132.8	0
2016	19-Jun-16	23	596.7	427.2	0.063		2919.2	54.694	151.5	0
2016	20-Jun-16	0	470	487.2	0.063		2604.5	120.319	193.4	0
2016	20-Jun-16	1	361.9	301.1	0.063		2463.4	125.887	241.6	0
2016	20-Jun-16	2	344.8	219.1	0.052		2195	80.956	296.9	0
2016	20-Jun-16	3	329.8	234.2	0.052		2103.6	51.032	365.4	12.2
2016	20-Jun-16	4	320.7	242.3	0.062		2088.9	28.431	414.8	39.7
2016	20-Jun-16	5	324.5	240.1	0.063		2096.7	61.631	383.3	78.5
2016	20-Jun-16	6	339.8	220.5	0.056		2089	103.631	377.1	131.2
2016	20-Jun-16	7	320.2	217.2	0.057		2109	133.94	397.6	218.6
2016	20-Jun-16	8	309.7	199.6	0.114		2129.2	126.147	418.7	242.5
2016	20-Jun-16	9	282.8	200.2	0.321		2162.5	405.554	407.4	232.5
2016	20-Jun-16	10	280.1	204.9	0.321		2286	668.944	416.7	234.4
2016	20-Jun-16	11	285.1	208.2	0.311		2259.6	784.3	403.6	237.1
2016	20-Jun-16	12	292.1	194.5	0.349		2567	1028.2	404.9	238.9
2016	20-Jun-16	13	258.4	190.2	0.657		2700.6	2666.2	404	239.8
2016	20-Jun-16	14	385.8	346.5	0.822		3174.5	2826.7	402.9	240.6
2016	20-Jun-16	15	553.9	386.3	0.853		3265.9	2819.2	403.7	241.1
2016	20-Jun-16	16	936.5	708.3	0.851		3409.9	2814.1	405.3	269.7
2016	20-Jun-16	17	1106.9	1062.5	0.854		3667.1	2490.7	405.4	323.4
2016	20-Jun-16	18	1175.2	911.5	0.801		3517.4	216.464	403.6	271.5
2016	20-Jun-16	19	1108.7	651.9	0.777		3353.3		403	264.5
2016	20-Jun-16	20	978	574.2	0.615		3185.8		400.4	261.7
2016	20-Jun-16	21	744.6	373.3	0.348		2806.4		400.7	224.7
2016	20-Jun-16	22	510.4	244.6	0.311		2482.2		400.4	227.1
2016	20-Jun-16	23	397.9	236.2	0.093		2190.8		399.1	226
2016	21-Jun-16	0	269.9	279.7			2174.4		398.1	227
2016	21-Jun-16	1	279.5	269.5			2168.7		401.3	226.8
2016	21-Jun-16	2	278.1	270.9			2138.7		397.4	226
2016	21-Jun-16	3	273.1	265.6			2171.1		397.3	226.5
2016	21-Jun-16	4	269.9	266.5			2176.3		527.8	229.9
2016	21-Jun-16	5	266	269			2142.6		748.7	236.2
2016	21-Jun-16	6	284.1	248.9			2141.2		818.6	238.5
2016	21-Jun-16	7	274.7	252.4			2135.4		807	239
2016	21-Jun-16	8	259.2	248.3			2133.3		801.7	239
2016	21-Jun-16	9	237.1	231.2			2155.2		799.1	227.1
2016	21-Jun-16	10	240.5	220.4			2203.2		799.1	227.7
2016	21-Jun-16	11	255.7	220.7			2365.5		794.2	224.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-Jun-16	12	246.5	220.2			2572.5		798.5	223.5
2016	21-Jun-16	13	237.2	218.7			3279.6		858.5	224.5
2016	21-Jun-16	14	263.9	219.7			3607.9		811.3	224.6
2016	21-Jun-16	15	248.6	227.5			3620.2		812.9	225.8
2016	21-Jun-16	16	254.4	239.1			3508.1		710.7	224.7
2016	21-Jun-16	17	154.8	159.7			3019.7		463.6	228.8
2016	21-Jun-16	18	108.7	134.7			2510.8		311.8	225.8
2016	21-Jun-16	19	197.6	255.4			2121.4		414.7	227.6
2016	21-Jun-16	20	193.1	254.8			2101.3		366	234.4
2016	21-Jun-16	21	187	226.8			2096.7		359	228.2
2016	21-Jun-16	22	193.4	217.5			2071.8		361.3	230.4
2016	21-Jun-16	23	185.6	214.1			2112.6		351.6	231.9
2016	22-Jun-16	0	194.9	210.6			2097		340.2	228.7
2016	22-Jun-16	1	195	211.1			2084.8		347	226.6
2016	22-Jun-16	2	198.2	211.2			2099.7		340.5	229.2
2016	22-Jun-16	3	197.5	205.5			2080.2		340.3	234
2016	22-Jun-16	4	195.9	207.9			2097.5		451.9	378.4
2016	22-Jun-16	5	203.6	221.7			2087.1		682.4	481.7
2016	22-Jun-16	6	215.2	227			2103		809.6	535.2
2016	22-Jun-16	7	199.2	211.5			2128.4		784.2	530.3
2016	22-Jun-16	8	192.6	194			2107.2		768.3	527.2
2016	22-Jun-16	9	191.6	209.6			2106.7		751.4	523.6
2016	22-Jun-16	10	176.4	182.2			2112.9		745.7	521
2016	22-Jun-16	11	179.2	189.8			2112.1		748.6	524.3
2016	22-Jun-16	12	178.4	185.6			2111.9		749.8	527
2016	22-Jun-16	13	177.3	189.1			2139.6		755	523.7
2016	22-Jun-16	14	174.1	181.4			2135.3		760.3	509.9
2016	22-Jun-16	15	190.2	189.9			2229.1		742.2	544.8
2016	22-Jun-16	16	190.7	200.8			2417.7		572.9	441.7
2016	22-Jun-16	17	206.6	194.9			2533.5		421.5	286.1
2016	22-Jun-16	18	225.1	201.7			2526.6		395.5	264.2
2016	22-Jun-16	19	175.7	194.9			2192.8		385.9	256.1
2016	22-Jun-16	20	180.3	201.3			2093.3		377.2	269.9
2016	22-Jun-16	21	180.8	200.9			2089.6		367	266.1
2016	22-Jun-16	22	188.2	197.6			2110.2		356.8	222.7
2016	22-Jun-16	23	191.5	208.2			2098.6		124.417	224.4
2016	23-Jun-16	0	193	211.2			2073.8			221.6
2016	23-Jun-16	1	211.4	208.9			2080.2			223.2
2016	23-Jun-16	2	254.9	217.5			2071.8			222.2
2016	23-Jun-16	3	268.4	216.9			2062.7			222.5
2016	23-Jun-16	4	265.4	225.3			2062.1			223
2016	23-Jun-16	5	264.1	227.5			2084.8			317.7
2016	23-Jun-16	6	221.8	227.8			2102.8			383
2016	23-Jun-16	7	222.8	223.6			2152.4			389.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-Jun-16	8	228.8	229.5			2589.4			385.8
2016	23-Jun-16	9	229.9	237.6			3027.3			379.7
2016	23-Jun-16	10	244.6	227.4			3424.9			387.6
2016	23-Jun-16	11	205.8	216.2			3531.8			389
2016	23-Jun-16	12	269.6	273.9			3557.1			391.2
2016	23-Jun-16	13	234.5	898.6			3554.7			387
2016	23-Jun-16	14	274.9	1664.9			3570.2			382.1
2016	23-Jun-16	15	336.3	881.1			3543.8			383.8
2016	23-Jun-16	16	243.9	791			3533.5			382.5
2016	23-Jun-16	17	208.4	844.5			3519.1			263
2016	23-Jun-16	18	186.3	859.2			3510.6			224
2016	23-Jun-16	19	191.8	857.9			3500.4			227.3
2016	23-Jun-16	20	206.6	854.7			3498.6			222
2016	23-Jun-16	21	206.6	606			3312.9			220.7
2016	23-Jun-16	22	210.9	422.2			2865.8			219.1
2016	23-Jun-16	23	214.6	357.1			2813.3			219.2
2016	24-Jun-16	0	207.1	242			2394.8			215.3
2016	24-Jun-16	1	181.4	181.5			2126.8			214.5
2016	24-Jun-16	2	173.6	123.6			2111.6			212.2
2016	24-Jun-16	3	190.1	124.1			2108.6			225.5
2016	24-Jun-16	4	210.8	130.5			2141.3			423.2
2016	24-Jun-16	5	215.1	121.8			2149.4			621.5
2016	24-Jun-16	6	218.4	107			2179.8			657.7
2016	24-Jun-16	7	252.6	94.4			2315.7			627.3
2016	24-Jun-16	8	284.1	109			2530.2			641.1
2016	24-Jun-16	9	354	142			2729.4			629.1
2016	24-Jun-16	10	355.7	118.6			2712.7			625.3
2016	24-Jun-16	11	420.3	132.9			2699.1			623.4
2016	24-Jun-16	12	464.3	144.4			2827			629.2
2016	24-Jun-16	13	448.7	169			2918.9			623.4
2016	24-Jun-16	14	612.7	311.2			3098.9			622.8
2016	24-Jun-16	15	677.8	367.6			3249			625.6
2016	24-Jun-16	16	820.3	488			3545.9			518.7
2016	24-Jun-16	17	692.7	492			3528.7			293.1
2016	24-Jun-16	18	909.2	722.2			3499.3			119
2016	24-Jun-16	19	854.2	653.6			3367.2			
2016	24-Jun-16	20	923.1	549.2			2990.1			
2016	24-Jun-16	21	1002.9	581.8			2675.2			
2016	24-Jun-16	22	746.1	309.2			2308.9			
2016	24-Jun-16	23	475	219.8			2162.4			
2016	25-Jun-16	0	325.2	214.8			2118.6			
2016	25-Jun-16	1	308.5	206.9			2130.7			
2016	25-Jun-16	2	291.5	205.9			2135.2			
2016	25-Jun-16	3	282.1	202.7			2116			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	25-Jun-16	4	279.9	199.2			2142			
2016	25-Jun-16	5	280.3	200.2			2138.6			
2016	25-Jun-16	6	277.5	168.2			2157.3			
2016	25-Jun-16	7	597	302.7			2558.7			
2016	25-Jun-16	8	827.3	353.8			2665.7			
2016	25-Jun-16	9	743.1	245.3			2618.3			
2016	25-Jun-16	10	758.4	294.1			2817.3			
2016	25-Jun-16	11	877.9	439.9			3141.2			
2016	25-Jun-16	12	965.4	530.9			3511			
2016	25-Jun-16	13	501.1	526.1			3381.8			
2016	25-Jun-16	14	586.7	612.3			3462.3			
2016	25-Jun-16	15	688.9	441			3631.4			
2016	25-Jun-16	16	759.5	494.1			3569.5			
2016	25-Jun-16	17	910.8	633.4			3612.6			
2016	25-Jun-16	18	849.7	726			3597.1			
2016	25-Jun-16	19	748.8	641.3			3452			
2016	25-Jun-16	20	572.4	572.1			3114.1			
2016	25-Jun-16	21	689.5	663			2708.6			
2016	25-Jun-16	22	517.6	807.2			2296.6			
2016	25-Jun-16	23	529.2	508			2169.2			
2016	26-Jun-16	0	336.7	296.5			2134.7			
2016	26-Jun-16	1	246.1	193.1			2141.3			
2016	26-Jun-16	2	260.6	172.1			2134.4			
2016	26-Jun-16	3	245.9	176.4			2128.7			
2016	26-Jun-16	4	246.7	184.6			2051.2			
2016	26-Jun-16	5	224.4	181.2			2081			
2016	26-Jun-16	6	231	159.5			2095.9			
2016	26-Jun-16	7	261.5	167.7			2131.7			
2016	26-Jun-16	8	327.8	209.3			2168			
2016	26-Jun-16	9	382.9	263.5			2140.1			
2016	26-Jun-16	10	377.4	246.3			2150.9			
2016	26-Jun-16	11	460.4	274.2			2503.8			
2016	26-Jun-16	12	581	356.2			2620.7			
2016	26-Jun-16	13	596.7	400.4			2516.9			
2016	26-Jun-16	14	613.4	380.6			2392.6			
2016	26-Jun-16	15	831.1	469.9			2640			
2016	26-Jun-16	16	885.4	531.6			2842			
2016	26-Jun-16	17	702.1	618			3308.7			
2016	26-Jun-16	18	626.9	587.6			3513.8			
2016	26-Jun-16	19	612.2	458.9			3313.6			
2016	26-Jun-16	20	525.8	374.4			3160.6			
2016	26-Jun-16	21	298.2	269			2747.2			
2016	26-Jun-16	22	435.6	376.3			2406.1			
2016	26-Jun-16	23	345	232			2077.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	27-Jun-16	0	247.7	154.9			2095.3			
2016	27-Jun-16	1	242.6	163.4			2080.2			
2016	27-Jun-16	2	259	167.5			2077.4			
2016	27-Jun-16	3	260.6	166.7			2092.7			
2016	27-Jun-16	4	250.4	161.2			2730.1			
2016	27-Jun-16	5	245.2	164.5			3347			
2016	27-Jun-16	6	259.7	162.9			3434.8			
2016	27-Jun-16	7	307.2	157.3			3455.8			
2016	27-Jun-16	8	363.6	223			3444.4			
2016	27-Jun-16	9	673.8	427.1			3435.9			
2016	27-Jun-16	10	300.6	446.1			3453.6			
2016	27-Jun-16	11	331.9	282.1			3423.3			
2016	27-Jun-16	12	582.1	294.2			3449			
2016	27-Jun-16	13	599.3	424			3453.6			
2016	27-Jun-16	14	649	540.9			3412.2			
2016	27-Jun-16	15	690.2	635.4			3421			
2016	27-Jun-16	16	568.3	469.5			3330.8			
2016	27-Jun-16	17	508.7	399.2			3024.4			
2016	27-Jun-16	18	332.7	288.1			2784.2			
2016	27-Jun-16	19	266.5	215.4			2726.7			
2016	27-Jun-16	20	319.3	248.5			2931.4			
2016	27-Jun-16	21	361	298			2713.2			
2016	27-Jun-16	22	364.6	294.3			2297.9			
2016	27-Jun-16	23	229.2	206.3			2044.9			
2016	28-Jun-16	0	190	136.7			2047			
2016	28-Jun-16	1	189.9	146			2035.8			
2016	28-Jun-16	2	189	146.4			2043.6			
2016	28-Jun-16	3	194.6	150			2040.8			
2016	28-Jun-16	4	200.2	158.4			2451.6			
2016	28-Jun-16	5	202.6	183.8			3108.8			
2016	28-Jun-16	6	210.6	175.5			3368			
2016	28-Jun-16	7	205	191.2			3373.9			
2016	28-Jun-16	8	205.4	188.2			3376.5			
2016	28-Jun-16	9	235.4	245.1			3366.8			
2016	28-Jun-16	10	414.6	334.7			3397.3			
2016	28-Jun-16	11	732.3	417.4			3405.6			
2016	28-Jun-16	12	963.8	571.6			3421.7			
2016	28-Jun-16	13	1023.5	700.4			3434.1			
2016	28-Jun-16	14	589.9	820.5			3417.9			
2016	28-Jun-16	15	651	710.4			3368.7			
2016	28-Jun-16	16	693.4	528.6			3389.1			
2016	28-Jun-16	17	521.3	409.4			3406.1			
2016	28-Jun-16	18	400.6	269.6			3405.3			
2016	28-Jun-16	19	257.3	229.8			3167.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-Jun-16	20	446.4	305.4			2641.6			
2016	28-Jun-16	21	325.4	212			2337			
2016	28-Jun-16	22	264	153.4			2045.4			
2016	28-Jun-16	23	167.7	158.1			2016.9			
2016	29-Jun-16	0	167.3	144.3			2006			
2016	29-Jun-16	1	182.3	144.2			2003.5			
2016	29-Jun-16	2	178.9	134.7			1999.1			
2016	29-Jun-16	3	171.6	138.3			2009.5			
2016	29-Jun-16	4	174	142.2			1991.3			
2016	29-Jun-16	5	189.1	149.4			2018.8			
2016	29-Jun-16	6	189.2	157.3			2039.6			
2016	29-Jun-16	7	188.5	231.7			2086.8			
2016	29-Jun-16	8	194.2	146			2591.1			
2016	29-Jun-16	9	187.1	139.3			3181.7			
2016	29-Jun-16	10	258.4	176.5			3428.1			
2016	29-Jun-16	11	323.1	330.4			3474			
2016	29-Jun-16	12	387.4	355.8			3480.3			
2016	29-Jun-16	13	356.2	355.6			3484.3			
2016	29-Jun-16	14	420.4	432.8			3512.8			
2016	29-Jun-16	15	479.6	609.1			3515.2			
2016	29-Jun-16	16	436.5	391.9			3503			
2016	29-Jun-16	17	518.3	395.3			3512.1			
2016	29-Jun-16	18	403.8	356			3503.8			
2016	29-Jun-16	19	355	339.5			3489.5			
2016	29-Jun-16	20	283.8	228.2			3197.4			
2016	29-Jun-16	21	231	156.8			2774			
2016	29-Jun-16	22	223	155.5			2416			
2016	29-Jun-16	23	205.4	159			2104.7			0
2016	30-Jun-16	0	218.6	162.3			2063.9			0
2016	30-Jun-16	1	223.4	167			2064.2			1
2016	30-Jun-16	2	233.5	169.2			2058.4			0
2016	30-Jun-16	3	223.8	175.1			2040.4			0
2016	30-Jun-16	4	192.9	167.7			2059.3			0
2016	30-Jun-16	5	224.3	166.8			2059.9			0
2016	30-Jun-16	6	239.5	162.4			2061.1			0
2016	30-Jun-16	7	186.4	163.4			2066			1.7
2016	30-Jun-16	8	159.9	167.1			2068.9			0.3
2016	30-Jun-16	9	191.4	170.1			2160.8			0
2016	30-Jun-16	10	277.1	212.2			2442.2			0
2016	30-Jun-16	11	401.8	210.8			2474.1			0
2016	30-Jun-16	12	370.3	164.4			2413.6			0
2016	30-Jun-16	13	359.2	163.7			2270.9			0
2016	30-Jun-16	14	373.8	173.6			2395.8			
2016	30-Jun-16	15	697.3	234.8			2799.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	30-Jun-16	16	648.6	238.3			2773.3			
2016	30-Jun-16	17	583.1	183.3			2534			
2016	30-Jun-16	18	588.5	212.7			2645.7			
2016	30-Jun-16	19	682	271.3			2746.9			
2016	30-Jun-16	20	802.6	364.1			3025.4			
2016	30-Jun-16	21	635.7	237			2794.3			
2016	30-Jun-16	22	398.9	162.8			2412.1			
2016	30-Jun-16	23	288	133.9			2074.6			
2016	1-Jul-16	0	251.4	150.4			2065.2			
2016	1-Jul-16	1	232.1	166.3			2059.2			
2016	1-Jul-16	2	223.9	164			2057.8			
2016	1-Jul-16	3	223.5	166.3			2068.9			
2016	1-Jul-16	4	223.6	170.4			2065.5			
2016	1-Jul-16	5	211.9	169.1			2054.9			
2016	1-Jul-16	6	221.8	167.6			2074.7			
2016	1-Jul-16	7	228.9	171.5			2050.1			
2016	1-Jul-16	8	226.4	169.7			2044.4			
2016	1-Jul-16	9	215.9	170.4			2049			
2016	1-Jul-16	10	220.1	172.6			2135.5			
2016	1-Jul-16	11	238	185.9			2217			
2016	1-Jul-16	12	344.4	177.5			2497.6			
2016	1-Jul-16	13	390.1	188.6			2577.8			
2016	1-Jul-16	14	513.5	279			2770.9			
2016	1-Jul-16	15	693	321.9			2929.9			
2016	1-Jul-16	16	751.8	396.9			3110.5			
2016	1-Jul-16	17	505.1	287.3			3155.3			
2016	1-Jul-16	18	316.1	229.4			2963.5			
2016	1-Jul-16	19	417.2	133.1			2827.7			
2016	1-Jul-16	20	472.8	119			2803.5			
2016	1-Jul-16	21	343.8	95.2			2552.5			
2016	1-Jul-16	22	227.4	65.1			2179.6			
2016	1-Jul-16	23	368.1	89.4			2084.9			
2016	2-Jul-16	0	107.31	137.7			2101			
2016	2-Jul-16	1		141.8			2141.5			
2016	2-Jul-16	2		144.9			2086.6			
2016	2-Jul-16	3		143.6			2096.6			
2016	2-Jul-16	4		143.9			2106.5			
2016	2-Jul-16	5		157.6			2120.4			
2016	2-Jul-16	6		140.1			2114.7			
2016	2-Jul-16	7		155.7			2254.6			
2016	2-Jul-16	8		162.8			2291.2			
2016	2-Jul-16	9		228.5			2553.3			
2016	2-Jul-16	10		319.9			2599.7			
2016	2-Jul-16	11		489			2803.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	2-Jul-16	12		579.6			3021.5			
2016	2-Jul-16	13		634.3			2886.3			
2016	2-Jul-16	14		1007			3094.5			
2016	2-Jul-16	15		387.4			2982.2			
2016	2-Jul-16	16		313.3			2941.2			
2016	2-Jul-16	17		303.9			2921.5			
2016	2-Jul-16	18		224.2			2792.6			
2016	2-Jul-16	19		300.3			2586.2			
2016	2-Jul-16	20		385.5			2705.1			
2016	2-Jul-16	21		251.4			2643			
2016	2-Jul-16	22		128.2			2252.8			
2016	2-Jul-16	23		66.9			2159.4			
2016	3-Jul-16	0		65.6			2140.5			
2016	3-Jul-16	1		65.6			2151.3			
2016	3-Jul-16	2		65.6			2148.7			
2016	3-Jul-16	3		66.9			2139.6			
2016	3-Jul-16	4		67.1			2145.4			
2016	3-Jul-16	5		118.7			2176.4			
2016	3-Jul-16	6		192			2143.5			
2016	3-Jul-16	7		233.2			2151.4			
2016	3-Jul-16	8		231.2			2149.7			
2016	3-Jul-16	9		226.4			2116.2			
2016	3-Jul-16	10		225.4			2139.1			
2016	3-Jul-16	11		219			2130.9			
2016	3-Jul-16	12		218.2			2226.9			
2016	3-Jul-16	13		227.9			2373.5			
2016	3-Jul-16	14		216.2			2298.2			
2016	3-Jul-16	15		213.6			2145.7			
2016	3-Jul-16	16		218.6			2130.5			
2016	3-Jul-16	17		222.4			2241.9			
2016	3-Jul-16	18		224.2			2160.3			
2016	3-Jul-16	19		225.2			2132.5			
2016	3-Jul-16	20		225.5			2127			
2016	3-Jul-16	21		221.4			2102			
2016	3-Jul-16	22		223.1			2109.4			
2016	3-Jul-16	23		196.6			2104.4			
2016	4-Jul-16	0		127.9			2111.2			
2016	4-Jul-16	1		91.9			2088.1			
2016	4-Jul-16	2		68.1			2081.8		0	
2016	4-Jul-16	3		69.4			2094.1		0	
2016	4-Jul-16	4		69.7			2082.9		0	
2016	4-Jul-16	5		68.8			2089.5		0	
2016	4-Jul-16	6		68.1			2098.8		0	
2016	4-Jul-16	7		72.7			2082.1		0	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	4-Jul-16	8		73.5			2048.5		0	
2016	4-Jul-16	9		80.5			2110.8		0.3	0
2016	4-Jul-16	10		63.8			2128.9		0.6	0
2016	4-Jul-16	11		64.9			2308.9		3	0.8
2016	4-Jul-16	12	0	64.7			2327.3		7.7	0.3
2016	4-Jul-16	13	0	63			2113.8		24.1	0
2016	4-Jul-16	14	0	63			2055.1		37	0
2016	4-Jul-16	15	0	64.4			2073.1		38.7	0
2016	4-Jul-16	16	0	63.5			2092.6		38.7	0
2016	4-Jul-16	17	0	64.9			2089.3		32.1	0
2016	4-Jul-16	18	0	66.5			2106.1		32.3	0
2016	4-Jul-16	19	37.2	64.2			2175.5		37.3	0
2016	4-Jul-16	20	76.3	64.7			2299.4		85.3	0
2016	4-Jul-16	21	79.4	61.5			2191.5		151.9	0
2016	4-Jul-16	22	131.2	64.6			2083.6		235.2	1.3
2016	4-Jul-16	23	188.2	65.6			2071.4		283.4	35.4
2016	5-Jul-16	0	181.3	63.4			2073.6		349.8	66.6
2016	5-Jul-16	1	256.4	62.1			2083.3		534.9	201.1
2016	5-Jul-16	2	487.5	67.1			2062.1		636	312.1
2016	5-Jul-16	3	501.5	75.4			2048.8		488.3	275.4
2016	5-Jul-16	4	319.5	74.6			2065.7		410	281.1
2016	5-Jul-16	5	259.6	74.4			2063.3		372.1	260.2
2016	5-Jul-16	6	199.6	71.6			2057.3		426.2	250.3
2016	5-Jul-16	7	182	74			2056.1		471.1	237.4
2016	5-Jul-16	8	172.1	73.8			2044.7		422.9	233.4
2016	5-Jul-16	9	172.1	76.2			2159		452.9	235.1
2016	5-Jul-16	10	191.9	77.7			2425.8		457.5	242
2016	5-Jul-16	11	270.8	81			2703.4		453.3	239.5
2016	5-Jul-16	12	260	75.6			2703.6		493.4	244.4
2016	5-Jul-16	13	300	87.7			2716		566.4	334.7
2016	5-Jul-16	14	357.4	108.6			2628.4		588.2	527.3
2016	5-Jul-16	15	446.2	165.6			3036.9		464.2	558.7
2016	5-Jul-16	16	726.3	279.5			3429.1		607.3	661
2016	5-Jul-16	17	805.6	266.6			3473.2		629.2	506
2016	5-Jul-16	18	915.7	322.6			3565.5		678.8	487.9
2016	5-Jul-16	19	545.1	331.5			3492.3		611.6	429.6
2016	5-Jul-16	20	529.4	304			3384.2		551.2	426.3
2016	5-Jul-16	21	295.2	232.2	0.01		3006		469.9	302.5
2016	5-Jul-16	22	347.3	293.2	0.032		2501.8		441.5	233.4
2016	5-Jul-16	23	229.1	221.5	0.032		2200.9		446.7	233.8
2016	6-Jul-16	0	189.2	160.1	0.049		2122.6		466.1	232
2016	6-Jul-16	1	254.7	165	0.065		2089.8		469.8	230.8
2016	6-Jul-16	2	601.9	159.5	0.078		2106.1		465.4	227.5
2016	6-Jul-16	3	677.6	158.4	0.077		2092.9		476.8	225.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-Jul-16	4	703.6	164.6	0.062		2071.9		482.1	227.8
2016	6-Jul-16	5	697.3	165.3	0.062		2088.1		463	224.4
2016	6-Jul-16	6	688.5	154.5	0.062		2100.9		454.8	226.9
2016	6-Jul-16	7	697.4	164.2	0.071		2101.1		444.1	225.6
2016	6-Jul-16	8	652	171.4	0.111		2123.6		458.7	229.3
2016	6-Jul-16	9	626	158.1	0.249		2294.9		483.5	244.1
2016	6-Jul-16	10	620.6	163.7	0.314		2467		522.6	240.3
2016	6-Jul-16	11	557.4	85.2	0.418		2850.2		699.2	319
2016	6-Jul-16	12	518.3	15	0.444		3038		837.5	372.9
2016	6-Jul-16	13	507.1	31	0.325		2873.7		838.2	256.6
2016	6-Jul-16	14	451.1	37.3	0.31		2840.3		823.7	215.5
2016	6-Jul-16	15	468.5	71.3	0.348		3189.1		840.2	259.8
2016	6-Jul-16	16	502.1	146.4	0.571		3443.8		830.3	411.8
2016	6-Jul-16	17	537.8	209.3	0.741		3502.5		817	578.2
2016	6-Jul-16	18	521.2	270.1	0.8		3522.4		757.3	614.5
2016	6-Jul-16	19	499.9	287.4	0.639		3485.8		622.2	413.8
2016	6-Jul-16	20	468	474.9	0.509		3437.4		543.1	349
2016	6-Jul-16	21	347.9	388.1	0.326		3345.2		555.9	232.9
2016	6-Jul-16	22	185.1	234.9	0.327		2900.2		510.9	236.1
2016	6-Jul-16	23	152.8	165.7	0.329		2482		458	238.7
2016	7-Jul-16	0	134.9	136	0.328		2180.7		447.7	234.8
2016	7-Jul-16	1	165	145.9	0.339		2108.2		441.2	231.5
2016	7-Jul-16	2	171.8	152.3	0.332		2095.7		436.8	227
2016	7-Jul-16	3	185.6	156.6	0.312		2100.4		445	225.3
2016	7-Jul-16	4	177.3	151.6	0.312		2102.3		439.1	224.3
2016	7-Jul-16	5	256.1	152	0.309		2118		428.5	219.4
2016	7-Jul-16	6	473.3	145.5	0.308		2110.8		414.5	219.8
2016	7-Jul-16	7	439.5	146.2	0.31		2152.7	0.06	438.4	221
2016	7-Jul-16	8	360.7	180.3	0.31		2324.3	0.072	458.5	218.3
2016	7-Jul-16	9	350.8	232.8	0.31		2655.1	0.072	484.5	223.2
2016	7-Jul-16	10	379.8	333.2	0.311		2925.3	43.275	438.8	267
2016	7-Jul-16	11	415.9	320.6	0.311		2975.8	154.1	423.6	534.2
2016	7-Jul-16	12	486.1	588.8	0.336		3192.7	80	442.6	628.1
2016	7-Jul-16	13	651.5	636.7	0.423		3462.5	95.4	486.2	621.3
2016	7-Jul-16	14	465.5	449.4	0.345		3535.7	577.9	442.5	664.9
2016	7-Jul-16	15	453.7	551.5	0.304		3543.4	775.7	427.9	679.6
2016	7-Jul-16	16	430	470.2	0.306		3350.1	789.9	446.2	581.5
2016	7-Jul-16	17	370.1	293.1	0.307		3097.4	788.1	469.9	455
2016	7-Jul-16	18	296.8	277	0.306		3066.9	788.6	451.2	450.3
2016	7-Jul-16	19	240.7	243.5	0.305		2830.3	789.8	441.9	417.9
2016	7-Jul-16	20	169.8	180	0.305		2634.6	793.5	453.5	263.3
2016	7-Jul-16	21	177.1	229.5	0.304		2192.2	792.9	451.4	245.882
2016	7-Jul-16	22	173.7	210.8	0.304		2136.2	793	442.7	244.7
2016	7-Jul-16	23	178	161.4	0.305		2116.9	655.866	442.2	244.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	8-Jul-16	0	177.2	145.4	0.304		2126.6		437.6	239
2016	8-Jul-16	1	172.2	153.4	0.305		2134.6		439.5	238.5
2016	8-Jul-16	2	168.2	155.2	0.303		2122.7		430.4	233.7
2016	8-Jul-16	3	173	154.9	0.303		2127.6		466.9	228.6
2016	8-Jul-16	4	166.2	154.1	0.303		2110.5		455.6	221.7
2016	8-Jul-16	5	166.7	160.1	0.303		2133.8		447.6	220
2016	8-Jul-16	6	175.5	165.3	0.305		2084.1		410.5	220.8
2016	8-Jul-16	7	185.9	164	0.304		2051.2		391.9	219.6
2016	8-Jul-16	8	185.1	165.2	0.303		2059.3		402.4	222
2016	8-Jul-16	9	283.1	193.4	0.324		2337.8		402.2	225.2
2016	8-Jul-16	10	411.4	425.5	0.314		2699		405.6	236.3
2016	8-Jul-16	11	379.8	537.7	0.31		2840.7		414.9	235.3
2016	8-Jul-16	12	399.2	788.7	0.305		2916.3		429.1	229.9
2016	8-Jul-16	13	498.4	798	0.304		3053.5		447.1	245.3
2016	8-Jul-16	14	421.2	323.6	0.327		2940.5		441.5	252.8
2016	8-Jul-16	15	264.4	240.4	0.307		2813.7		441.3	248
2016	8-Jul-16	16	294	233	0.303		2684.8		420.4	233.8
2016	8-Jul-16	17	385.8	285.9	0.378		2755.9		403.4	240.2
2016	8-Jul-16	18	812	637.7	0.654		3109.9		399.9	242.9
2016	8-Jul-16	19	746.8	611.9	0.626		3061.1		418.8	234.2
2016	8-Jul-16	20	569.7	353	0.346		2668.5		452	241
2016	8-Jul-16	21	425.1	334.6	0.301		2758		459.1	241.5
2016	8-Jul-16	22	314.7	202.1	0.297		2673.9		431.4	238.3
2016	8-Jul-16	23	249.6	134.3	0.032		2374.7		119.9	231.8
2016	9-Jul-16	0	167.2	101.6			2300.6		20.829	232
2016	9-Jul-16	1	126.3	104.6			2081.1			229.7
2016	9-Jul-16	2	108.2	101.8			2040.2			229.7
2016	9-Jul-16	3	101.6	105.2			2033.9			253.9
2016	9-Jul-16	4	100.1	101.7			2039.2			251
2016	9-Jul-16	5	105	102.1			2094.6			257.6
2016	9-Jul-16	6	106.9	103.8			2130.1			235.9
2016	9-Jul-16	7	110.4	100.6			2143.4			239.7
2016	9-Jul-16	8	106.4	97.6			2322.8			238.8
2016	9-Jul-16	9	180	133.4			2517.1			241.9
2016	9-Jul-16	10	266.1	215.7			2845.6			251.9
2016	9-Jul-16	11	527.9	360.6			3083.1			242.9
2016	9-Jul-16	12	728.2	704.1			3230.2			256.2
2016	9-Jul-16	13	775.5	844			3254.3			276.5
2016	9-Jul-16	14	767.6	983.3			3264.6			340.6
2016	9-Jul-16	15	804.9	973			3255.6			405.1
2016	9-Jul-16	16	804.7	936.9			3076.8			584.9
2016	9-Jul-16	17	801.3	741.3			3179.1			600.5
2016	9-Jul-16	18	788.9	821.6			3273.5			567.1
2016	9-Jul-16	19	596.6	884.3			3063.3			360.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	9-Jul-16	20	334.1	957.8			2765.7			307.9
2016	9-Jul-16	21	256.1	919.9			2610.2			245.9
2016	9-Jul-16	22	265.1	779.6			2337.2			229.1
2016	9-Jul-16	23	381.9	756.3			2059			226.7
2016	10-Jul-16	0	243.9	623.6			2037.8			226.6
2016	10-Jul-16	1	141.3	457.9			2064.5			227.4
2016	10-Jul-16	2	96.7	260.5			2020.2			226.7
2016	10-Jul-16	3	82.7	136.7			2025			224.2
2016	10-Jul-16	4	81.3	87.3			2026.4			223.2
2016	10-Jul-16	5	84.3	105.7			2285.3			286.6
2016	10-Jul-16	6	76.3	88.2			2140.2			268.8
2016	10-Jul-16	7	62.4	70.6			2114.6			245.5
2016	10-Jul-16	8	63.5	94.8			2256.5			245.1
2016	10-Jul-16	9	95	107.1			2464.8			248.7
2016	10-Jul-16	10	151.8	108			2574.3			247.5
2016	10-Jul-16	11	215.3	166.4			2751.1			242.2
2016	10-Jul-16	12	347	314.3			2896.7			257.1
2016	10-Jul-16	13	664.5	456			3202.8			309.8
2016	10-Jul-16	14	647.9	654.9			3306.3			380.6
2016	10-Jul-16	15	729.6	967.6			3303			418.4
2016	10-Jul-16	16	799.3	848.5			3277.4			455
2016	10-Jul-16	17	821.4	870			3304.5			404.3
2016	10-Jul-16	18	771.4	856.9			3332.3			440.1
2016	10-Jul-16	19	796.5	849.8			3341.6			347.3
2016	10-Jul-16	20	705.3	715.9			3321.5			269.6
2016	10-Jul-16	21	630.7	800.2			3334.9			242
2016	10-Jul-16	22	783.8	983.8			3329.9			241
2016	10-Jul-16	23	708.7	668.8			3213.1			237.3
2016	11-Jul-16	0	421.4	338.2			2813.1			238.2
2016	11-Jul-16	1	307.2	195.1			2410.3			238.2
2016	11-Jul-16	2	231.6	119			2041.5			231.7
2016	11-Jul-16	3	169.6	89.7			2032.6			236.4
2016	11-Jul-16	4	128.6	92.1			2058.7			231.3
2016	11-Jul-16	5	97.4	100.5			2066.8			232.2
2016	11-Jul-16	6	92.5	101.7			2089.6			230.3
2016	11-Jul-16	7	141.3	124.1			2461.2			232.6
2016	11-Jul-16	8	192.7	127.4			2591.6			234.1
2016	11-Jul-16	9	325.1	148.3			2823.2			262.7
2016	11-Jul-16	10	461	256.8			3181.7			293.3
2016	11-Jul-16	11	799.2	431.3			3449.2			338.6
2016	11-Jul-16	12	856.1	683.4			3522.2			418.2
2016	11-Jul-16	13	836	993.3			3513			520.5
2016	11-Jul-16	14	862.7	890.6			3507.4		0	558.5
2016	11-Jul-16	15	847.3	881.6			3465.5		0	561.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	11-Jul-16	16	882.6	917.5			3404.4		13.8	532.9
2016	11-Jul-16	17	844.4	895.2			3423.7		38.5	479.9
2016	11-Jul-16	18	506.7	716.7			3157.7		40	302.8
2016	11-Jul-16	19	641.3	828.1			3131.9		34.4	308.6
2016	11-Jul-16	20	933.3	938.9			3431.4		43.3	431.9
2016	11-Jul-16	21	713.5	753.8			3337.8		42.4	293.5
2016	11-Jul-16	22	286.1	535.2			2979.5		40.9	236.5
2016	11-Jul-16	23	187	397.4			2603.9		49.9	240.2
2016	12-Jul-16	0	103.4	274.2			2260.7		52.5	240.6
2016	12-Jul-16	1	88	144.4			2147.4		54.4	236.4
2016	12-Jul-16	2	73.3	88.4			2139.3		54.7	231.4
2016	12-Jul-16	3	77.4	90.1			2115.6		65.6	233
2016	12-Jul-16	4	126	128.4			2259.9		85.7	235.9
2016	12-Jul-16	5	354.3	273.4			2112.7		105.6	238.9
2016	12-Jul-16	6	247	232.9			2107.9		175.5	241.2
2016	12-Jul-16	7	201.9	218.9		0	2134.9		388.2	251.1
2016	12-Jul-16	8	174.3	182.9		0	2573.7		832.3	272.8
2016	12-Jul-16	9	243.4	166		0	2830.6		909.3	287.6
2016	12-Jul-16	10	309	228.9		0	3019.1		1103.7	297.3
2016	12-Jul-16	11	261.2	229.2		0	3032.9		1051.3	301.4
2016	12-Jul-16	12	272.9	194		0	3010.9		1083.4	284.7
2016	12-Jul-16	13	295.7	201.4		0	3036.4		1022.2	286.8
2016	12-Jul-16	14	311.3	242.1		0	3072.5		1030.2	305.7
2016	12-Jul-16	15	671.9	381.6		0	3456.5		1044.1	276
2016	12-Jul-16	16	705.9	595.1		0	3535.9		1029	279.6
2016	12-Jul-16	17	578	533.5		1.4	3447.4		851	290
2016	12-Jul-16	18	630.1	557		0	3507.4		674.7	295
2016	12-Jul-16	19	567.7	519.9		0	3568.7		699.1	293.4
2016	12-Jul-16	20	491.3	461.9		0	3438.3		672	284.7
2016	12-Jul-16	21	513.7	385.7		0	3289.4		448.4	278.1
2016	12-Jul-16	22	342.2	352.3		0	2935.8		443.2	277.1
2016	12-Jul-16	23	200.4	215.3		0	2521.3		424.8	272.8
2016	13-Jul-16	0	119.1	130.5		0	2209.2		439.7	273.6
2016	13-Jul-16	1	72.8	84.1		0	2168.3		441.1	269.7
2016	13-Jul-16	2	70	66.1		0	2156		442.7	270
2016	13-Jul-16	3	73.6	74.9		54.3	2167.5		438.3	258
2016	13-Jul-16	4	86.6	86.4		393.3	2174.6		433.2	262
2016	13-Jul-16	5	244.3	303.5		539.6	2201		437.4	281.4
2016	13-Jul-16	6	277.7	333.4		591.6	2205.9		438.4	279.3
2016	13-Jul-16	7	366.1	324.4		575	2319.9		438.4	262.3
2016	13-Jul-16	8	291.3	274.7		548	2550.8		439.2	265.8
2016	13-Jul-16	9	315.9	228.9		861.9	2715.9		451.5	269
2016	13-Jul-16	10	305.3	212.2		1221	2899		441.1	269.4
2016	13-Jul-16	11	581.8	322.8		1409.1	3115.2		449.9	328.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	13-Jul-16	12	665.1	382		1433.6	3159		454.8	268.8
2016	13-Jul-16	13	822.1	586.7		1448.3	3472.3		455.1	252.4
2016	13-Jul-16	14	792.6	876		1434.7	3556.9		636.9	248.2
2016	13-Jul-16	15	694	684.3		1151.5	3269.2		677.2	250.1
2016	13-Jul-16	16	751	704.6		540.4	3294.4		687.8	243.6
2016	13-Jul-16	17	644	507.6		2.072	3184.1		694	252.7
2016	13-Jul-16	18	740.2	685.6			3314.1		693.5	254.7
2016	13-Jul-16	19	526	464.8			3173.5		638.8	260.1
2016	13-Jul-16	20	485.1	428.6	0.011		3063.5		511.5	258.3
2016	13-Jul-16	21	599.2	571.2	0.033		3111.7		493.9	254
2016	13-Jul-16	22	440.3	655.7	0.033		2805.4		505.6	252.2
2016	13-Jul-16	23	252.4	363.5	0.039		2479.7		494.6	250.3
2016	14-Jul-16	0	155.5	196.7	0.059		2181.4		500.5	252.9
2016	14-Jul-16	1	123.8	121.9	0.064		2125		500	253.1
2016	14-Jul-16	2	81.4	85.1	0.078		2133.7		489.1	248.8
2016	14-Jul-16	3	82.2	86.8	0.052		2117.5		501	258.3
2016	14-Jul-16	4	78.7	91.1	0.044	0	2124.5		479	254.9
2016	14-Jul-16	5	74.9	87.6	0.058	0	2126.4		481.8	259.9
2016	14-Jul-16	6	77.6	81.9	0.062	8.7	2140.5		474.6	257
2016	14-Jul-16	7	80.6	83.1	0.063	448.9	2218.9		466.8	257.6
2016	14-Jul-16	8	143.3	110.9	0.066	735.9	2541.5		466	253.2
2016	14-Jul-16	9	252.1	161.1	0.196	687.9	2871.1		460.9	265.2
2016	14-Jul-16	10	339.1	266.2	0.298	614.9	3012.8		543.8	273.1
2016	14-Jul-16	11	738.6	472.1	0.366	590.3	3400.6		635.7	314.8
2016	14-Jul-16	12	832.9	566.4	0.362	578.9	3491.9		641.5	338.9
2016	14-Jul-16	13	875.4	647.6	0.34	599.7	3436.3		645.3	395.3
2016	14-Jul-16	14	882.4	1003.8	0.312	619.9	3585.8		622.2	371
2016	14-Jul-16	15	735	683.2	0.306	601.9	3446.2		677.2	379.7
2016	14-Jul-16	16	711.6	754.1	0.319	615.9	3494		709	429
2016	14-Jul-16	17	653.4	756.8	0.484	667.5	3553.5		858.2	596.5
2016	14-Jul-16	18	703.7	790.6	0.435	641.6	3546.7		793.3	584.7
2016	14-Jul-16	19	742.6	800.6	0.309	603.2	3361.3		743.8	638.5
2016	14-Jul-16	20	724.7	721.2	0.305	607.4	3163.6		734.3	571.7
2016	14-Jul-16	21	487.9	513.9	0.304	608.1	3020.7		523.3	425.3
2016	14-Jul-16	22	230.8	319.3	0.304	602.5	2553.3		452.6	417
2016	14-Jul-16	23	188.1	208.6	0.15	39.06	2180.2		430.6	310.2
2016	15-Jul-16	0	122	121.2			2171		430.7	306.3
2016	15-Jul-16	1	111.8	101.9			2202.5		435.9	378.6
2016	15-Jul-16	2	109.7	110.1			2204.1		431.5	379.9
2016	15-Jul-16	3	105.1	109.4			2192.8		426.7	389.4
2016	15-Jul-16	4	103.6	109.8			2209		444.3	376.8
2016	15-Jul-16	5	92.3	110.8			2211		471.5	361.9
2016	15-Jul-16	6	94.9	111.9			2200.2		482.9	326.5
2016	15-Jul-16	7	97.1	114.4			2201		493.1	334.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	15-Jul-16	8	95.5	113.5			2227		443.5	319.9
2016	15-Jul-16	9	99.9	115.8			2528.5		412.5	285.6
2016	15-Jul-16	10	108.8	149.1			2707.5		429.1	284.4
2016	15-Jul-16	11	131.3	134.9			2823.9		453.6	308.3
2016	15-Jul-16	12	207.7	235.6			3161.9		444.7	286.5
2016	15-Jul-16	13	339.1	331.4			3402.2		410.4	270.4
2016	15-Jul-16	14	390.8	346.8			3493.2		402.4	260.5
2016	15-Jul-16	15	395	347.8			3456.6		394.2	263.5
2016	15-Jul-16	16	376.6	357.7			3375.8		392.2	265.1
2016	15-Jul-16	17	349.1	395.4			3313.2		390.7	260.6
2016	15-Jul-16	18	344.2	344.7			3012.5		437.9	258.4
2016	15-Jul-16	19	282.6	219.2			2620.2		484.4	275.6
2016	15-Jul-16	20	223.3	207.6			2464.8		530	301
2016	15-Jul-16	21	181.5	202.2			2275.3		730.8	300.2
2016	15-Jul-16	22	144.6	202			2259.1		686.3	340.6
2016	15-Jul-16	23	104.3	182.3			2289.3		383.3	349.7
2016	16-Jul-16	0	101	145.3			2256.9		34.76	324.6
2016	16-Jul-16	1	96.5	94.9			2255.7			297.1
2016	16-Jul-16	2	101.6	97.8			2241.4			296
2016	16-Jul-16	3	98.5	101.7			2239.1			297.9
2016	16-Jul-16	4	100	105.7			2234.5			283.1
2016	16-Jul-16	5	98	106.5			2240.9			274.2
2016	16-Jul-16	6	102.1	105.3			2231.3			271
2016	16-Jul-16	7	103.2	108.7			2226.2			269.4
2016	16-Jul-16	8	101	106.8			2216.3			266.2
2016	16-Jul-16	9	94.2	108.1			2227.9			265.5
2016	16-Jul-16	10	101.4	112.6			2477.2			265.4
2016	16-Jul-16	11	108.4	117.1			2615.3			276.2
2016	16-Jul-16	12	235.9	189.1			3102.9			279.3
2016	16-Jul-16	13	358.2	307.4			3384.2			280.5
2016	16-Jul-16	14	658.9	570.8			3582.1			291.3
2016	16-Jul-16	15	449.9	576.3			3426.4			331.1
2016	16-Jul-16	16	350.4	433.8			3093.7			344
2016	16-Jul-16	17	274.5	371.1			2735.7			363
2016	16-Jul-16	18	241.5	275.5			2514.9			331.6
2016	16-Jul-16	19	183.9	226.2			2217.7			310.2
2016	16-Jul-16	20	140.3	166.4			2228.9			373.6
2016	16-Jul-16	21	115.1	106.9			2301			385.5
2016	16-Jul-16	22	115.3	120.1			2205.9			370.7
2016	16-Jul-16	23	110.2	112.9			2176.4			376.1
2016	17-Jul-16	0	108.7	115.8			2203.8			371.2
2016	17-Jul-16	1	108.3	114.3			2200.9			365.4
2016	17-Jul-16	2	108.6	113.3			2202.7			327.7
2016	17-Jul-16	3	107.7	113.1			2202.8			328

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-Jul-16	4	108.7	111			2196.2			342.9
2016	17-Jul-16	5	107.7	113.1			2214.6			332.3
2016	17-Jul-16	6	107	108.9			2210.2			339.1
2016	17-Jul-16	7	103.4	111.4			2202.7			335.7
2016	17-Jul-16	8	98.3	111.1			2175			341.3
2016	17-Jul-16	9	91.7	112.5			2184.4			346.4
2016	17-Jul-16	10	95.9	114.8			2231			337
2016	17-Jul-16	11	97.6	118.1			2323.6			314.7
2016	17-Jul-16	12	101.4	126.1			2523.5			314.1
2016	17-Jul-16	13	134.4	207.7			2954.8			283.3
2016	17-Jul-16	14	171.6	222.7			3200.3			272.4
2016	17-Jul-16	15	230.3	354.6			3335			259.7
2016	17-Jul-16	16	362.4	401.2			3458.8			250
2016	17-Jul-16	17	433.3	598.6			3483.1			281.1
2016	17-Jul-16	18	629.1	732.4			3570.9			359.4
2016	17-Jul-16	19	640	844.6	0.004		3522.9			304.6
2016	17-Jul-16	20	627.3	817.8	0.035		3488			256.3
2016	17-Jul-16	21	376.5	451.1	0.033		3250.8			251.3
2016	17-Jul-16	22	284.5	267.9	0.049		2933			249.1
2016	17-Jul-16	23	233.6	169.1	0.102		2661			260.5
2016	18-Jul-16	0	176.7	120.8	0.067		2391.9			247.2
2016	18-Jul-16	1	115.5	117.6	0.059		2218.2			239.1
2016	18-Jul-16	2	112.8	118.3	0.041		2198.7			242
2016	18-Jul-16	3	108	123.7	0.053		2202.5			258.6
2016	18-Jul-16	4	113.5	119.4	0.043		2196.5			255.6
2016	18-Jul-16	5	134.2	152.6	0.063		2193			230.3
2016	18-Jul-16	6	271.9	251.8	0.117		2194.5			232.4
2016	18-Jul-16	7	354.9	348.2	0.285		2193.5			242.6
2016	18-Jul-16	8	398.4	387	0.328		2259.7			245.3
2016	18-Jul-16	9	488.8	409.1	0.312		2557.2			238.8
2016	18-Jul-16	10	636.4	734.1	0.329		2839.4			248.7
2016	18-Jul-16	11	749.4	1009.8	0.313		3243.4			236.4
2016	18-Jul-16	12	819.7	987.9	0.404		3546			265.7
2016	18-Jul-16	13	850.7	1001	0.383		3404.6			412.1
2016	18-Jul-16	14	759.5	615.7	0.309		3209.6			452.5
2016	18-Jul-16	15	549.1	461.9	0.308		2893.8			302.4
2016	18-Jul-16	16	434.1	378.7	0.307		2727.9			275.6
2016	18-Jul-16	17	476.7	413.4	0.313		3054.4			245
2016	18-Jul-16	18	541.2	480.9	0.307		3135.3			232.8
2016	18-Jul-16	19	543.7	467.7	0.313		3247.7			293.3
2016	18-Jul-16	20	514.3	414.6	0.307		3284.8			284.1
2016	18-Jul-16	21	497.5	385.9	0.11		3112.2			272.3
2016	18-Jul-16	22	370.1	324.3			2760.8			261.7
2016	18-Jul-16	23	286.6	173.9			2466.3			27.93



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	19-Jul-16	0	323.7	145.9			2226.4			
2016	19-Jul-16	1	285.6	160.2			2236.8			
2016	19-Jul-16	2	280.9	162.3			2231.1			
2016	19-Jul-16	3	274.3	153.4			2207.4			
2016	19-Jul-16	4	356.5	203.8			2216			
2016	19-Jul-16	5	518.5	238.8			2230.3			
2016	19-Jul-16	6	873.7	321.7			2372.1			
2016	19-Jul-16	7	993.9	611.8			2886.6			
2016	19-Jul-16	8	806.5	523.4			3134.5			
2016	19-Jul-16	9	689.1	428.7			3234.6			
2016	19-Jul-16	10	667	471.3			3483.2			
2016	19-Jul-16	11	651.8	385.2			3556.7			
2016	19-Jul-16	12	665.4	369.3			3591.4			
2016	19-Jul-16	13	654.5	500.4			3622.7			
2016	19-Jul-16	14	674.6	776.6			3672.2			
2016	19-Jul-16	15	718.9	803.1			3686.9			
2016	19-Jul-16	16	841.8	893.7			3701.3			
2016	19-Jul-16	17	1123.1	1082			3708.7			
2016	19-Jul-16	18	1130.1	1148.3			3668.4			
2016	19-Jul-16	19	1095.5	1202.3			3696.9			
2016	19-Jul-16	20	1082	1212.6			3697.8			
2016	19-Jul-16	21	1111.3	1094.1			3666.4			
2016	19-Jul-16	22	527.1	629.9			3438.4			
2016	19-Jul-16	23	300.2	511.4			3016.6			
2016	20-Jul-16	0	175.8	435.7			2617.5	146.096		
2016	20-Jul-16	1	115.9	339.4			2314	156.3		
2016	20-Jul-16	2	108.7	242.4			2269.8	157.4		
2016	20-Jul-16	3	147.2	206.6			2248.1	174.7		
2016	20-Jul-16	4	382	468.5			2221.4	166.8		
2016	20-Jul-16	5	455.5	502.3			2228.2	86.4		
2016	20-Jul-16	6	702.8	364.3			2575.4	435.5		
2016	20-Jul-16	7	831.8	393.9			2668.2	734.1		
2016	20-Jul-16	8	745.6	740.6			2730.5	1005.3		
2016	20-Jul-16	9	758.3	476.5			2671.3	2450.1		
2016	20-Jul-16	10	580.5	293.2			2559	2557.6		
2016	20-Jul-16	11	537.7	286.4			2789.7	2551.5		
2016	20-Jul-16	12	531.1	264.5			3112.9	2531		
2016	20-Jul-16	13	614.8	263.5			3093	2369.3		
2016	20-Jul-16	14	827.5	334.8			3234.5	345.702		
2016	20-Jul-16	15	856.5	1080.9			3331.5			
2016	20-Jul-16	16	855.1	1338.3			3602.3			
2016	20-Jul-16	17	894	971.5			3545.4			
2016	20-Jul-16	18	816.3	501.9			3587.1			
2016	20-Jul-16	19	480.8	373.1			3589.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	20-Jul-16	20	429.2	271.5			3568.1			0
2016	20-Jul-16	21	445.9	296.8	0.001		3541.2			0
2016	20-Jul-16	22	397	253.5	0.031		3433.6			0.272
2016	20-Jul-16	23	301.7	184.4	0.033		3028.5			0.36
2016	21-Jul-16	0	235.7	123.8	0.033		2531.4			0
2016	21-Jul-16	1	913.4	98.2	0.049		2274.3			0
2016	21-Jul-16	2	81.5	84.8	0.063		2238.9			0
2016	21-Jul-16	3	17.1	77.8	0.05		2232.9			0
2016	21-Jul-16	4	23.4	91.9	0.046		2237.6			0
2016	21-Jul-16	5	39.8	171	0.053		2204			31.7
2016	21-Jul-16	6	73.6	415.7	0.037		2308.6			102.1
2016	21-Jul-16	7	138.6	604.8	0.062		2394			170.8
2016	21-Jul-16	8	165.4	638.1	0.064		2507.6			156.1
2016	21-Jul-16	9	173.2	998.1	0.15		2477.5			252
2016	21-Jul-16	10	236.2	1164.5	0.294		2279			251.9
2016	21-Jul-16	11	269.1	1140.7	0.301		2501.2			268
2016	21-Jul-16	12	286.6	975.1	0.304		2743			273
2016	21-Jul-16	13	283.6	848.4	0.304		2901.9			277.5
2016	21-Jul-16	14	307.8	709.5	0.305		3154.3			294.6
2016	21-Jul-16	15	231.7	457.1	0.333		3462.3			398.3
2016	21-Jul-16	16	205.8	503.2	0.325		3585.7			578.5
2016	21-Jul-16	17	174.1	466.8	0.309		3450.3			489.4
2016	21-Jul-16	18	176.3	352.3	0.309		3064.1			426.4
2016	21-Jul-16	19	168.1	313.7	0.307		2714.9			348.3
2016	21-Jul-16	20	169.7	300.7	0.305		2671.1			294.1
2016	21-Jul-16	21	131.1	370	0.304	0	2466.1			292.9
2016	21-Jul-16	22	109.1	291.2	0.305	0	2541.5			291.7
2016	21-Jul-16	23	85.6	186.2	0.306	0	2379			295.1
2016	22-Jul-16	0	76.9	115.8	0.307	0	2259.4			298.8
2016	22-Jul-16	1	86.8	106.6	0.307	0	2238.5			299.4
2016	22-Jul-16	2	91.1	113.2	0.307	0	2252.4			302.9
2016	22-Jul-16	3	82.9	116.1	0.307	0	2262			285.1
2016	22-Jul-16	4	78.6	138	0.307	0	2253.9			290.3
2016	22-Jul-16	5	84.2	277.4	0.307	0	2243.7			286.3
2016	22-Jul-16	6	94.6	469.2	0.307	0	2245.7			285.4
2016	22-Jul-16	7	172.4	1239.6	0.307	284.6	2224.6			278.3
2016	22-Jul-16	8	244.2	1228.6	0.307	694.5	2226.1			276.2
2016	22-Jul-16	9	274.1	873.1	0.307	623	2245.2			279.7
2016	22-Jul-16	10	284.1	650.9	0.307	621.6	2298			281.1
2016	22-Jul-16	11	283.2	669.4	0.307	628.8	2607.1			312.6
2016	22-Jul-16	12	313.7	647	0.321	631.7	2955.5			375.9
2016	22-Jul-16	13	350.2	535	0.35	680	3313.7			479.2
2016	22-Jul-16	14	562.6	616.5	0.369	675.5	3550.6			733.3
2016	22-Jul-16	15	695.5	603.8	0.507	721.9	3752.8			781.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	22-Jul-16	16	673.6	582	0.595	779	3699			778.3
2016	22-Jul-16	17	530.4	553.3	0.381	675.5	3661.9			776
2016	22-Jul-16	18	336.2	473.8	0.314	670.3	3634.2			621.1
2016	22-Jul-16	19	327.9	384.2	0.307	666.3	3230.1			538.6
2016	22-Jul-16	20	309.5	343.4	0.306	666.3	3002.3			458.5
2016	22-Jul-16	21	239.1	262.3	0.305	672	2643.6			285.9
2016	22-Jul-16	22	161.3	188.1	0.306	666.8	2286.9			279.8
2016	22-Jul-16	23	137.8	155.2	0.306	499.1	2191.6			278.6
2016	23-Jul-16	0	106.6	114.5	0.306	3.008	2130.7			272.2
2016	23-Jul-16	1	108.3	104.7	0.306		2151.6			272.1
2016	23-Jul-16	2	104.6	112	0.306		2216			266.6
2016	23-Jul-16	3	99	113.5	0.306		2248.7			268.6
2016	23-Jul-16	4	101.2	114.5	0.306		2245.1			270.9
2016	23-Jul-16	5	103.6	115.4	0.306		2253.5			275.7
2016	23-Jul-16	6	105.8	110.3	0.306		2257.8			270.9
2016	23-Jul-16	7	95.1	113.8	0.305		2320.3			274.6
2016	23-Jul-16	8	90.3	110	0.305		2520			274
2016	23-Jul-16	9	140.7	165.7	0.306		2533.9			275.9
2016	23-Jul-16	10	244.5	274.6	0.307		2883.9			274.2
2016	23-Jul-16	11	271.9	263.5	0.309		3290.1			313.7
2016	23-Jul-16	12	287.9	312.7	0.307		3424.4			400.4
2016	23-Jul-16	13	401	447.7	0.45		3547.6			599.2
2016	23-Jul-16	14	409.4	613.2	0.388		3535			641.8
2016	23-Jul-16	15	437.8	671.9	0.426		3526.8			698.6
2016	23-Jul-16	16	352.8	533.8	0.312		3441.3			545.4
2016	23-Jul-16	17	386.8	507.3	0.305		3432.9			535.2
2016	23-Jul-16	18	307.1	438	0.304		3533.3			510.3
2016	23-Jul-16	19	242.6	445.1	0.305		3351.1			388.3
2016	23-Jul-16	20	270.5	400.7	0.306		3041.9			365.4
2016	23-Jul-16	21	292.1	346.7	0.306		3256.4			316.6
2016	23-Jul-16	22	282.6	277.4	0.306		3299.8			274.4
2016	23-Jul-16	23	248.2	248.7	0.306		3305.9			272.4
2016	24-Jul-16	0	198.8	194.7	0.306		2817.9			271.7
2016	24-Jul-16	1	120.2	156.3	0.306		2448.5			267.7
2016	24-Jul-16	2	87.9	107.3	0.305		2365.3			265.1
2016	24-Jul-16	3	82.6	104.4	0.305		2323.6			268.7
2016	24-Jul-16	4	82.5	118.3	0.307		2305.9			267.1
2016	24-Jul-16	5	99.2	115.4	0.306		2400.3			262.6
2016	24-Jul-16	6	82.1	87.3	0.305		2373.1			260.2
2016	24-Jul-16	7	66.8	100.5	0.305		2536.6			265.1
2016	24-Jul-16	8	117.9	165.4	0.305		2840.9			265.9
2016	24-Jul-16	9	160.6	247.9	0.305		3198.7			267
2016	24-Jul-16	10	174.9	236.9	0.305		3252.2			261.3
2016	24-Jul-16	11	213.9	299.5	0.304		3395.8			268.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	24-Jul-16	12	323.2	490.4	0.309		3550.2			388.6
2016	24-Jul-16	13	355.7	559.6	0.305		3524.7			338.2
2016	24-Jul-16	14	382.2	589.8	0.324		3484.9		0	357.9
2016	24-Jul-16	15	378.3	518.8	0.314		3512.6		0	334.7
2016	24-Jul-16	16	463.5	553.8	0.324		3639.3		0.5	363.2
2016	24-Jul-16	17	616.8	712.9	0.373		3617.1		3.2	473.7
2016	24-Jul-16	18	660.3	943.7	0.392		3598.6		14.9	553.2
2016	24-Jul-16	19	622.9	1119.1	0.307	0	3618.6		11.2	539.8
2016	24-Jul-16	20	548.1	815.1	0.304	0	3587.5		14.5	501
2016	24-Jul-16	21	546.5	764	0.304	0	3487.7		17.4	323.4
2016	24-Jul-16	22	446.8	680.1	0.304	0	3427.1		19.3	283.4
2016	24-Jul-16	23	250.7	378.7	0.305	0	3039.7		26.4	277.9
2016	25-Jul-16	0	162.9	209.2	0.308		2591.1		31.9	274
2016	25-Jul-16	1	113.2	137.3	0.304		2217		34	271.7
2016	25-Jul-16	2	88	94.9	0.303	0	2144.9		44	270.4
2016	25-Jul-16	3	84.9	91.5	0.302	9.3	2147.7		41.7	274.1
2016	25-Jul-16	4	83.5	94.7	0.302	121	2128.1	0.054	43.1	267.4
2016	25-Jul-16	5	98.5	94.7	0.302	466.9	2103.4	0.072	45.3	266.9
2016	25-Jul-16	6	135.5	92	0.302	595.3	2127.4	2.875	44.7	338
2016	25-Jul-16	7	184.5	193.8	0.303	584.9	2312.5	22.4	71.7	274.1
2016	25-Jul-16	8	217.9	284.3	0.303	591.6	2624.6	169.5	111.3	282.6
2016	25-Jul-16	9	369.4	589.8	0.309	606.1	2991.4	507.3	29.892	294.3
2016	25-Jul-16	10	463.8	581	0.304	616.8	3150	768.4	43.9	340.4
2016	25-Jul-16	11	365.3	367.8	0.389	685.9	3289.7	835.8	52.5	683.6
2016	25-Jul-16	12	380.9	355.3	0.509	802.9	3335.2	826.5	53.1	788.3
2016	25-Jul-16	13	502.3	748.5	0.574	819.8	3395.6	832.5	86.9	798.8
2016	25-Jul-16	14	361.5	438.8	0.663	858.8	3390.6	789.5	179.2	790.4
2016	25-Jul-16	15	289.4	334.5	0.515	720.1	3377.9	781.1	399.8	688.1
2016	25-Jul-16	16	470.3	544.5	0.646	684.2	3402.7	779.5	773	727.9
2016	25-Jul-16	17	647.9	747.9	0.539	611.8	3373.1	778.8	875.4	682.7
2016	25-Jul-16	18	432.2	579.7	0.345	666.3	3279.8	776.8	802.9	696.2
2016	25-Jul-16	19	419.3	547.9	0.306	705.4	3164	71.3	700.8	563.9
2016	25-Jul-16	20	505	751	0.331	711.9	3302.9		702.6	514.6
2016	25-Jul-16	21	416.1	489.1	0.306	682.6	3129.9		712.6	340.2
2016	25-Jul-16	22	550.9	575.1	0.308	695.9	3246.4		715.6	259.7
2016	25-Jul-16	23	314.5	446.1	0.306	697.1	3246.2		716.4	267.5
2016	26-Jul-16	0	200.6	279.5	0.306	694.3	2809.8		728.7	266.9
2016	26-Jul-16	1	119.6	179.5	0.306	696.3	2289.6		732.6	266
2016	26-Jul-16	2	91.9	118.8	0.306	686.8	2068.9		726.6	267.3
2016	26-Jul-16	3	85.1	97.9	0.305	688.7	2065.4		732.7	264.9
2016	26-Jul-16	4	85.1	90.3	0.304	693.3	2062		709.3	261.2
2016	26-Jul-16	5	95.6	94.5	0.303	689.8	2072.4		676.1	256.1
2016	26-Jul-16	6	146.9	155.9	0.303	683.1	2166.8		685.7	258.8
2016	26-Jul-16	7	192.4	191.4	0.303	645.4	2280.2		671.5	267.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	26-Jul-16	8	262.9	217.6	0.303	644.7	2723.9		667.5	270
2016	26-Jul-16	9	331.4	259.3	0.562	654.5	2991.4		676.2	283.6
2016	26-Jul-16	10	342	328.7	0.75	665	3300		670.6	266.3
2016	26-Jul-16	11	367.7	391.8	0.743	663.2	3419		664.6	257.8
2016	26-Jul-16	12	633.3	692.5	0.743	660.6	3410.1		724.9	327.3
2016	26-Jul-16	13	788.6	1073.8	0.746	675.4	3467.5		759.6	517.9
2016	26-Jul-16	14	885.6	1229.3	0.72	655.8	3456.7		730.3	659
2016	26-Jul-16	15	864.3	1194.8	0.459	678.5	3391.7		840.4	757.2
2016	26-Jul-16	16	882.2	1055.4	0.619	726.7	3363		875.3	775
2016	26-Jul-16	17	880.1	845.5	0.459	694.6	3324		825.7	762.7
2016	26-Jul-16	18	912.6	709.7	0.307	679.4	3397.3		705	614.2
2016	26-Jul-16	19	838.8	662.1	0.304	52.948	3301.4		432.7	451.3
2016	26-Jul-16	20	622.3	512.9	0.301		3326.1		384.8	286.3
2016	26-Jul-16	21	398.1	318.3	0.3		3336.3		401	266.2
2016	26-Jul-16	22	259.4	234.5	0.3		3386.4		416.1	267.3
2016	26-Jul-16	23	177	151.9	0.3		3248.4		341	266.7
2016	27-Jul-16	0	142.8	100.2	0.3		2950.6		61.52	264.3
2016	27-Jul-16	1	128.1	89.9	0.317		2261.3			267.9
2016	27-Jul-16	2	110.7	98.5	0.301		2191.8			266.7
2016	27-Jul-16	3	88.9	88	0.303		2323.7			261.3
2016	27-Jul-16	4	99.3	108.1	0.308		2429.9			262.9
2016	27-Jul-16	5	135.9	169.7	0.308		2525.9			362.6
2016	27-Jul-16	6	167	188.3	0.303		3118.7			502.4
2016	27-Jul-16	7	166.4	197.8	0.303		3304.8			639.5
2016	27-Jul-16	8	177.8	223	0.304		3308			689.4
2016	27-Jul-16	9	222.2	376.2	0.31		3324.6			708.5
2016	27-Jul-16	10	311.5	678.9	0.332		3355.9			940.8
2016	27-Jul-16	11	556	1271.3	0.327		3343.8			773.4
2016	27-Jul-16	12	728.8	1170.7	0.406		3320.7			813.6
2016	27-Jul-16	13	630.3	815.3	0.633		3299.1			933.5
2016	27-Jul-16	14	767.3	707.6	0.749		3309.7			894.7
2016	27-Jul-16	15	749.7	663.1	0.794		3236.2			863.9
2016	27-Jul-16	16	833.9	464.7	0.796		3171.5			882
2016	27-Jul-16	17	802.5	467.5	0.773		2996.6			887.4
2016	27-Jul-16	18	819.8	610.2	0.471		3168.7			764.1
2016	27-Jul-16	19	778.7	631.5	0.382		3335			623.7
2016	27-Jul-16	20	589.6	607.3	0.379		3299.3			625.1
2016	27-Jul-16	21	665.1	608	0.354		3278.6			528.6
2016	27-Jul-16	22	576.7	522.5	0.302		3143.9			531
2016	27-Jul-16	23	459.9	431.9	0.148		3106.7			532.4
2016	28-Jul-16	0	342.2	357.1			2698.5			535.4
2016	28-Jul-16	1	285.2	315.3			2297.3			543
2016	28-Jul-16	2	223.2	246.4			2079.4			545
2016	28-Jul-16	3	200.3	240.4			2095.7			541.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-Jul-16	4	204.9	221.1			2120.3			323
2016	28-Jul-16	5	267.9	261.7			2516.2			308
2016	28-Jul-16	6	217.4	252.9			2527.7			322.3
2016	28-Jul-16	7	296.8	356.9			2880.6			401.3
2016	28-Jul-16	8	368.8	559.4			3142.3			411.4
2016	28-Jul-16	9	480.6	718.7			3358.2			698
2016	28-Jul-16	10	604.6	930.4			3423.4			895.6
2016	28-Jul-16	11	632.1	1007			3629.4			885.2
2016	28-Jul-16	12	721.7	1117.9			3795.4			919.2
2016	28-Jul-16	13	774.3	1231.8			3597.9			935.8
2016	28-Jul-16	14	656.8	964.3			3425.4			911.6
2016	28-Jul-16	15	446.2	771.1			3317.8			900.1
2016	28-Jul-16	16	428.2	584.3			3300.2			849.9
2016	28-Jul-16	17	548.8	722			3325.4			743.4
2016	28-Jul-16	18	607.9	868			3398.6			536.9
2016	28-Jul-16	19	629.7	1036.3			3435.6			302.4
2016	28-Jul-16	20	568.8	916.9			3422.1			303.1
2016	28-Jul-16	21	396.5	584.4			3288.1			298.3
2016	28-Jul-16	22	292.1	469.1			2969.7			309.2
2016	28-Jul-16	23	241.5	432.4			2917.2			230.1
2016	29-Jul-16	0	206.6	314.5			2512.1			8.099
2016	29-Jul-16	1	206.3	242.2			2188			
2016	29-Jul-16	2	169.1	184.8			2131.5			
2016	29-Jul-16	3	133.2	137			2120.4			
2016	29-Jul-16	4	104	121.5			2115.6			
2016	29-Jul-16	5	114	121.8			2115.5			
2016	29-Jul-16	6	141.3	160.4			2120.8			
2016	29-Jul-16	7	181.5	228.9			2113.2			
2016	29-Jul-16	8	279.5	339.5			2291.8			
2016	29-Jul-16	9	285.4	360.5			2397			
2016	29-Jul-16	10	402.3	452.9			2742.5			
2016	29-Jul-16	11	423.4	557.7			3025.2			
2016	29-Jul-16	12	569.6	910			3395.1			
2016	29-Jul-16	13	682	1136			3531.2			
2016	29-Jul-16	14	699.7	1196.7			3541.9			
2016	29-Jul-16	15	656.6	1292.2			3549.9			
2016	29-Jul-16	16	695.1	1166.5			3543.5			
2016	29-Jul-16	17	679.2	554.2			3592.2			
2016	29-Jul-16	18	734.3	459.1			3613.9			
2016	29-Jul-16	19	683.2	434.6			3532			
2016	29-Jul-16	20	650.8	552.3			3461.9			
2016	29-Jul-16	21	430.3	377.1			3044.6			
2016	29-Jul-16	22	456.1	308			2753.6			
2016	29-Jul-16	23	338.5	180.7			2439.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	30-Jul-16	0	124.6	93.1			2228			
2016	30-Jul-16	1	91.9	92			2186.6			
2016	30-Jul-16	2	89.3	98.8			2191.5			
2016	30-Jul-16	3	90.5	99.1			2183.9			
2016	30-Jul-16	4	87.9	100.5			2177.8			
2016	30-Jul-16	5	89.7	99.7			2207.6			
2016	30-Jul-16	6	88.5	104.6			2185.3			
2016	30-Jul-16	7	66.7	102.1			2200.1			
2016	30-Jul-16	8	70.8	108.5			2297			
2016	30-Jul-16	9	90.7	135.1			2665.6			
2016	30-Jul-16	10	134.6	138.1			3063.9			
2016	30-Jul-16	11	178.1	159			2983.8			
2016	30-Jul-16	12	171.3	133.4			2861.8			
2016	30-Jul-16	13	172.3	105			2652.1			
2016	30-Jul-16	14	282.9	143.5			3026.4			
2016	30-Jul-16	15	284.5	213.3			3202.5			
2016	30-Jul-16	16	327.1	393.9			3374.4			
2016	30-Jul-16	17	465.4	572.7			3471.8			
2016	30-Jul-16	18	575.8	828.9			3510.9			
2016	30-Jul-16	19	395.5	599.2			3330.3			
2016	30-Jul-16	20	262.8	417.1			2913.1			
2016	30-Jul-16	21	174.7	242.6			2661.6			
2016	30-Jul-16	22	132.4	144.7			2797.7			
2016	30-Jul-16	23	80.3	113.8			2326.8			
2016	31-Jul-16	0	71.4	76.7			2622.7			
2016	31-Jul-16	1	72.3	76			2601			
2016	31-Jul-16	2	58	73.5			2598.4			
2016	31-Jul-16	3	57.8	67.9			2591.8			
2016	31-Jul-16	4	52.7	66.7			2602.9			
2016	31-Jul-16	5	55.9	68.2			2601.6			
2016	31-Jul-16	6	64.7	71.7			2598.7			
2016	31-Jul-16	7	54.8	84.4			2590.4			
2016	31-Jul-16	8	61.3	95.6			2711.9			
2016	31-Jul-16	9	73	167.3			3045.8			
2016	31-Jul-16	10	133	266.3			3304.1			
2016	31-Jul-16	11	234	325			3283.7			
2016	31-Jul-16	12	313.1	445.3			2876.6			
2016	31-Jul-16	13	392.4	716.1			2963.8			
2016	31-Jul-16	14	463.2	788			3174.1			
2016	31-Jul-16	15	432.7	788.2			3413.8			
2016	31-Jul-16	16	448	733.1			3483			
2016	31-Jul-16	17	412.3	655			3478.3			
2016	31-Jul-16	18	453.5	779.5			3486.8			
2016	31-Jul-16	19	413.4	671.6			3486.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	31-Jul-16	20	343.7	535.6			3421.7			
2016	31-Jul-16	21	305.9	395.7			3333.9			
2016	31-Jul-16	22	252.1	303.9			3213.2			
2016	31-Jul-16	23	199	223.6			2940.1			
2016	1-Aug-16	0	136.2	146.1			2720.7			
2016	1-Aug-16	1	87.9	123			2867			
2016	1-Aug-16	2	77.2	121.6			2696.3			
2016	1-Aug-16	3	75.9	117.7			2639			
2016	1-Aug-16	4	71.3	117.4			2641			
2016	1-Aug-16	5	77.8	107.3			2655.2			
2016	1-Aug-16	6	108.8	131.8			2656.9			
2016	1-Aug-16	7	144.6	245			2684			
2016	1-Aug-16	8	224.3	382.2			2927.2			
2016	1-Aug-16	9	306.1	488.5			3216.3			
2016	1-Aug-16	10	509.2	745.9			3294.7			
2016	1-Aug-16	11	512.8	1049.4			3119.2			
2016	1-Aug-16	12	539.4	1001.2			3109.2			
2016	1-Aug-16	13	562.2	929			3286.6			
2016	1-Aug-16	14	536.3	574.7			3363.8			
2016	1-Aug-16	15	435.5	572.7			3360.4			
2016	1-Aug-16	16	537.1	684.6			3349.6			
2016	1-Aug-16	17	487.2	719.6			3340.7			
2016	1-Aug-16	18	531.8	724.9			3348.8			
2016	1-Aug-16	19	534.4	512.8			3342.4			
2016	1-Aug-16	20	522.1	723			3327.3			
2016	1-Aug-16	21	466.3	622.5			3138.4			
2016	1-Aug-16	22	377.4	452.1			3058.3			
2016	1-Aug-16	23	231.9	285.6			2837.1			
2016	2-Aug-16	0	138.4	209.8			2800.4			
2016	2-Aug-16	1	85.6	138.3			2757.6			
2016	2-Aug-16	2	62.4	92.3			2672.7			
2016	2-Aug-16	3	68.9	84.5			2659.1			
2016	2-Aug-16	4	68.7	85.9			2692.1			
2016	2-Aug-16	5	80.7	103.2			2915.8			
2016	2-Aug-16	6	123.8	134.9			3187			
2016	2-Aug-16	7	182	243.3			3232			
2016	2-Aug-16	8	208.1	286.8			3282.1			
2016	2-Aug-16	9	247.6	329			3385.7			
2016	2-Aug-16	10	439.5	542.3			3489.6			
2016	2-Aug-16	11	483.5	683.2			3509.1			
2016	2-Aug-16	12	520.6	624.6			3507.2			
2016	2-Aug-16	13	438.4	632.4			3513.9			
2016	2-Aug-16	14	481.5	538.3			3517.7			
2016	2-Aug-16	15	454.7	638.4			3527.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	2-Aug-16	16	480.1	642.6			3517.5			
2016	2-Aug-16	17	448.9	671.3			3510			
2016	2-Aug-16	18	636.8	901.1			3490.9			
2016	2-Aug-16	19	630.8	1154			3494.6			
2016	2-Aug-16	20	716.8	1102.6			3504.3			
2016	2-Aug-16	21	652.2	1122.1			3507.1			
2016	2-Aug-16	22	554.1	953.3			3503.7			
2016	2-Aug-16	23	373.4	476.5			3454.1			
2016	3-Aug-16	0	267.9	308.2			3312.8			
2016	3-Aug-16	1	229.5	260			3116.9			
2016	3-Aug-16	2	150.6	266.7			2965.2			
2016	3-Aug-16	3	144	282.8			2996.7			
2016	3-Aug-16	4	241.4	539.4			2948.7			
2016	3-Aug-16	5	508.6	742.3			3032.5			
2016	3-Aug-16	6	483.9	627.4			3437.8			
2016	3-Aug-16	7	332.9	309.5			3493.4			
2016	3-Aug-16	8	325.7	392.4			3494.5			
2016	3-Aug-16	9	308.6	380.8			3506.7			
2016	3-Aug-16	10	319.1	284.7			3516.9			
2016	3-Aug-16	11	257.5	256.8			3509			
2016	3-Aug-16	12	235.1	236.7			3512.5			
2016	3-Aug-16	13	234.2	277.8			3517.3			
2016	3-Aug-16	14	302.3	370.4			3101.2			
2016	3-Aug-16	15	292.2	381.6			3080.9			
2016	3-Aug-16	16	319.7	326.5			3084.4			
2016	3-Aug-16	17	376.2	400			3147.3			
2016	3-Aug-16	18	392.8	426.5			3188.6			
2016	3-Aug-16	19	286	286.1			3159.4			
2016	3-Aug-16	20	344.9	398			3209.9			
2016	3-Aug-16	21	374.1	366.4			3199.3			
2016	3-Aug-16	22	334.3	289			3145.9			
2016	3-Aug-16	23	243.6	173.9			2785.8			
2016	4-Aug-16	0	148.5	106			2449.4			
2016	4-Aug-16	1	117.4	66.7			2273.3			
2016	4-Aug-16	2	107.4	69.8			2074.1			
2016	4-Aug-16	3	86.6	100			2060.1			
2016	4-Aug-16	4	72.9	290.9			2005.4			
2016	4-Aug-16	5	92.5	851.4			1933.8			
2016	4-Aug-16	6	145.6	1397.8			2080.7			
2016	4-Aug-16	7	182.2	1424.4			2344.7			
2016	4-Aug-16	8	187.7	1427.7			2643			
2016	4-Aug-16	9	194.9	1421			2860			
2016	4-Aug-16	10	282.4	1440.7			3087.3			
2016	4-Aug-16	11	254.3	1436.7			2962			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	4-Aug-16	12	289.3	1415.4			3058.7			
2016	4-Aug-16	13	235.6	1486.9			2791.9			
2016	4-Aug-16	14	236.2	1470.3			2862.3			
2016	4-Aug-16	15	271.6	1045.8			2882.1			
2016	4-Aug-16	16	306.6	608			3124.4			
2016	4-Aug-16	17	233.9	549.8			3128.9			
2016	4-Aug-16	18	217.1	403.5			2973.6			
2016	4-Aug-16	19	247.7	321.8			3062.4			
2016	4-Aug-16	20	236.6	288.3			3076.5			
2016	4-Aug-16	21	270.5	294.8			3107.2			
2016	4-Aug-16	22	234.3	293			3060.1			
2016	4-Aug-16	23	164.2	248.8			2626.5			
2016	5-Aug-16	0	116.8	171.2			2304.4			
2016	5-Aug-16	1	120.4	110.5			2277.6			
2016	5-Aug-16	2	85.3	70.7			2079.1			
2016	5-Aug-16	3	106.8	89.3			2032.1			
2016	5-Aug-16	4	335.1	97.2			2132.1			
2016	5-Aug-16	5	594.4	152.5			2371.2			
2016	5-Aug-16	6	780.2	237.3			2408.6			
2016	5-Aug-16	7	995.2	266.2			2438.5			
2016	5-Aug-16	8	890.7	559			2762.5			
2016	5-Aug-16	9	844	729.4			3032.5			
2016	5-Aug-16	10	912.9	726.9			3190.2			
2016	5-Aug-16	11	852.5	760.8			3219.2			
2016	5-Aug-16	12	824.3	557.3			3076.3			
2016	5-Aug-16	13	813.3	316.3			2825.5			
2016	5-Aug-16	14	864.8	301.2			2910			
2016	5-Aug-16	15	799.6	323.5			3028			
2016	5-Aug-16	16	629.4	296.9			2987.6			
2016	5-Aug-16	17	524.6	321.7			2928.8			
2016	5-Aug-16	18	428.7	297			2907.5			
2016	5-Aug-16	19	489.9	345.8			2908.9			
2016	5-Aug-16	20	483.3	340.4			2925.8			
2016	5-Aug-16	21	529.3	360.1			2980.7			
2016	5-Aug-16	22	576.2	409.3			3076			
2016	5-Aug-16	23	519.1	321.9			2797.5			
2016	6-Aug-16	0	428	174.8			2467.9			
2016	6-Aug-16	1	380	171.8			2401.5			
2016	6-Aug-16	2	289	143.2			2296.9			
2016	6-Aug-16	3	266.5	97			2103.6			
2016	6-Aug-16	4	179.8	111.2			1970.2			
2016	6-Aug-16	5	191.6	129.6			1919.5			
2016	6-Aug-16	6	398.2	255.7			1942.6			
2016	6-Aug-16	7	274.9	393.7			2179.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-Aug-16	8	316.3	441.8			2451.5			
2016	6-Aug-16	9	265.8	351.2			2643.6			
2016	6-Aug-16	10	272.9	375.6			2649			
2016	6-Aug-16	11	456.5	560.2			2867.4			
2016	6-Aug-16	12	612.4	693.6			3105.8			
2016	6-Aug-16	13	421	489.5			3002.8			
2016	6-Aug-16	14	262.6	305.2			2784.7			
2016	6-Aug-16	15	221.5	263.2			2533.9			
2016	6-Aug-16	16	194.8	255.8			1952.5			
2016	6-Aug-16	17	236.4	280.7			2149			
2016	6-Aug-16	18	345	327.2			2309.8			
2016	6-Aug-16	19	464.6	387.9			2760.3			
2016	6-Aug-16	20	565.9	577.3			3008.2			
2016	6-Aug-16	21	482.5	622			3042.8			
2016	6-Aug-16	22	382	544.3			2936.8			
2016	6-Aug-16	23	166.4	275.5			2653.5			
2016	7-Aug-16	0	100.4	140.2			2197.6			
2016	7-Aug-16	1	64.3	70.3			1974.3			
2016	7-Aug-16	2	61.2	62.5			1923.7			
2016	7-Aug-16	3	57.8	71.9			1935.3			
2016	7-Aug-16	4	55.9	72.1			1928.3			
2016	7-Aug-16	5	71.6	97.1			1922.5			
2016	7-Aug-16	6	125.5	151.6			1959.2			
2016	7-Aug-16	7	128.9	167			2296.2			
2016	7-Aug-16	8	112	180.7			2283			
2016	7-Aug-16	9	183.5	251.7			2222.6			
2016	7-Aug-16	10	209.4	282.1			2266.5			
2016	7-Aug-16	11	221.4	346.1			2583.3			
2016	7-Aug-16	12	244.2	292			2782.5			
2016	7-Aug-16	13	249.5	300.8			2837.9			
2016	7-Aug-16	14	257.1	290.2			3005.8			
2016	7-Aug-16	15	299.1	370.3			3132.6			
2016	7-Aug-16	16	398.2	552.9			3165.8			
2016	7-Aug-16	17	363.7	541.5			3097.5			
2016	7-Aug-16	18	344.1	393.9			3183.3			
2016	7-Aug-16	19	285.6	366.1			3094.4			
2016	7-Aug-16	20	224.7	250.8			3048.7			
2016	7-Aug-16	21	194	212.9			2927.8			
2016	7-Aug-16	22	189.8	241.5			2681.5			
2016	7-Aug-16	23	102.4	143.5			2274.5			
2016	8-Aug-16	0	76.6	81.1			1973.9			
2016	8-Aug-16	1	55.8	71.9			1898.7			
2016	8-Aug-16	2	51	68.3			1885.3			
2016	8-Aug-16	3	47.8	67.1			1896.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	8-Aug-16	4	46.4	67			1919.1			
2016	8-Aug-16	5	46.8	89.2			2027.7			
2016	8-Aug-16	6	78.7	168.9			2263			
2016	8-Aug-16	7	124.4	249.4			2223.3			
2016	8-Aug-16	8	140.1	251.1			2274.7			
2016	8-Aug-16	9	134.1	261.4			2263.8			
2016	8-Aug-16	10	172.5	255.1			2493.8			
2016	8-Aug-16	11	184.6	280.9			2790.7			
2016	8-Aug-16	12	278.3	426.6			2926.9			
2016	8-Aug-16	13	276.6	481.3			2944.9			0
2016	8-Aug-16	14	352	563.6			2853.4			0
2016	8-Aug-16	15	366.7	581.3			2756.5			0.9
2016	8-Aug-16	16	425.1	646.7			2951.3			0.5
2016	8-Aug-16	17	401.6	578.1			2971.9			0
2016	8-Aug-16	18	458.9	670.2			2954.7			0
2016	8-Aug-16	19	602.2	764.3			2954.1			0
2016	8-Aug-16	20	420	540.4			2823.7			0
2016	8-Aug-16	21	216.2	326.3			2482.9			0
2016	8-Aug-16	22	145.9	187.9			2408.4			0
2016	8-Aug-16	23	103.5	103.9			2088.2			0
2016	9-Aug-16	0	73.4	88			1920.2			0.7
2016	9-Aug-16	1	74.9	88.6			1903.2			6.6
2016	9-Aug-16	2	71.6	90.6			1942.5			23.4
2016	9-Aug-16	3	74.1	87			1926			43
2016	9-Aug-16	4	73.8	91.5			2034.7			85.3
2016	9-Aug-16	5	119.5	145.3			2200.1			123.4
2016	9-Aug-16	6	168.1	262.3			2345.1			203.1
2016	9-Aug-16	7	160.2	275.8			2109.6			233.5
2016	9-Aug-16	8	166.9	257.6			2102.1			281
2016	9-Aug-16	9	188	246.7	0.019		2204.5			304.4
2016	9-Aug-16	10	194.4	281.1	0.033		2270.4			385.5
2016	9-Aug-16	11	348.8	324.9	0.033		2524.9			321.9
2016	9-Aug-16	12	427.1	340.7	0.033		2701			405.6
2016	9-Aug-16	13	224.3	288	0.033		2719.6			457.4
2016	9-Aug-16	14	187.9	247.2	0.054		2644.6			413.1
2016	9-Aug-16	15	211.4	310	0.062		2724.6			481.7
2016	9-Aug-16	16	196.1	285.6	0.062		2741			450.8
2016	9-Aug-16	17	246.3	283.7	0.062		2702.3			444
2016	9-Aug-16	18	249.1	337.4	0.062		2745.5			461.9
2016	9-Aug-16	19	308.6	442.6	0.062		2776			511.9
2016	9-Aug-16	20	368.6	538.3	0.057		2905.6			438.1
2016	9-Aug-16	21	261.8	378	0.05		2652.7			404.4
2016	9-Aug-16	22	141.7	190	0.05		2299.8			331.1
2016	9-Aug-16	23	95.5	116.7	0.05		1988.1			285.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-Aug-16	0	78.9	93.7	0.05		1846.7			285
2016	10-Aug-16	1	83.5	91	0.05		1829.7			276.4
2016	10-Aug-16	2	78.7	90.4	0.05		1801.2			274.7
2016	10-Aug-16	3	79.8	85.9	0.05		1820.3			275.9
2016	10-Aug-16	4	77.1	97.5	0.05		1871.4			282
2016	10-Aug-16	5	129.9	188.8	0.05		2128.2			276.9
2016	10-Aug-16	6	195	241.6	0.05		2233.8			281
2016	10-Aug-16	7	167.6	245.8	0.05		1988.9			283.5
2016	10-Aug-16	8	212.9	323.2	0.05		2255.4			291.7
2016	10-Aug-16	9	173.3	260	0.05		2530.8			411.4
2016	10-Aug-16	10	208.1	268.9	0.05		2797.2			774.2
2016	10-Aug-16	11	220.7	282.9	0.05		2908.6		0	812.2
2016	10-Aug-16	12	237.1	256.1	0.05		2869.3		0	812.2
2016	10-Aug-16	13	269.9	407.6	0.05		3041.1		0.3	801.7
2016	10-Aug-16	14	338.7	430.1	0.05		3053.2		0	799.9
2016	10-Aug-16	15	369.7	536.1	0.056		3059.8		2.9	801.7
2016	10-Aug-16	16	372.4	524.3	0.062		3017.3		15.2	798.7
2016	10-Aug-16	17	234.6	302.1	0.062		2762.3		23.7	795.6
2016	10-Aug-16	18	188.7	248.8	0.042		2852		31.1	805.1
2016	10-Aug-16	19	211.2	288			2879.9		34.9	797.1
2016	10-Aug-16	20	261.7	346.9			2896.4		28.8	773
2016	10-Aug-16	21	318.2	314			2684.4		30.7	775.1
2016	10-Aug-16	22	452.9	562.5			2709.1		39.8	675.5
2016	10-Aug-16	23	360.8	363.8			2441.5		45.5	478.3
2016	11-Aug-16	0	205.2	184.7			2134.5		46.6	306.8
2016	11-Aug-16	1	156.7	96.6			1894.8	0.036	48	275.5
2016	11-Aug-16	2	95.3	74.5	0.039		1823.4	0.072	49.1	271.1
2016	11-Aug-16	3	91.1	74.7	0.061		1811.9	0.072	54.7	270.2
2016	11-Aug-16	4	110.8	105.5	0.081		1819	0.072	102.8	272.1
2016	11-Aug-16	5	176.3	174.7	0.083		1792.1	0.072	145.8	269.9
2016	11-Aug-16	6	190.5	283.8	0.103		1816.4	0.072	149.3	265.4
2016	11-Aug-16	7	200.5	306	0.205		2048.2	0.072	176	343.6
2016	11-Aug-16	8	254.7	335.3	0.356		2359.9	206.3	273.9	537.7
2016	11-Aug-16	9	283.4	331.7	0.356		2528.9	188.3	6.2	640.1
2016	11-Aug-16	10	383.5	393.8	0.468		2691.3	187.2		731
2016	11-Aug-16	11	407.6	459.3	0.76		2903.1	463.8		731.7
2016	11-Aug-16	12	528.7	589.9	0.787		3042.6	774.1		729
2016	11-Aug-16	13	432.5	694.2	0.794		3066.5	1473.4		727.9
2016	11-Aug-16	14	454.2	711.8	0.795		3094.3	1856.6		727.2
2016	11-Aug-16	15	468.2	635.8	0.779		3074.9	1344.4	0	727.7
2016	11-Aug-16	16	491.2	506.5	0.767		3072.4	1093.7	0	720.3
2016	11-Aug-16	17	434	561	0.691		3039.3	827.8	12.8	695.6
2016	11-Aug-16	18	458	712.5	0.458		2821.1	778.5	38.8	731.2
2016	11-Aug-16	19	428.6	648.2	0.313		2686.6	761.8	52.1	715.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	11-Aug-16	20	497.4	630.1	0.307		2565.1	761.3	43.1	688.7
2016	11-Aug-16	21	409.6	420.8	0.307		2355.9	752.8	71.8	617.8
2016	11-Aug-16	22	242.7	243.8	0.307		2217.5	675.28	140.3	467.2
2016	11-Aug-16	23	140.7	143.4	0.311		2178.5		195.5	304
2016	12-Aug-16	0	73.5	86.2	0.31		1941.4		249	270.1
2016	12-Aug-16	1	78.6	67.8	0.308		1827.8		345.1	262.4
2016	12-Aug-16	2	76.5	68.5	0.309		1825.6		438.8	260.1
2016	12-Aug-16	3	79.5	71	0.305		1835.8		488.1	259
2016	12-Aug-16	4	78.9	82.4	0.305		1834.9		482.6	254.7
2016	12-Aug-16	5	107.3	185.9	0.305		1937.3		492.5	258.7
2016	12-Aug-16	6	210.1	302.5	0.305		1885.3	37.969	506.3	263.7
2016	12-Aug-16	7	238.9	322.3	0.305		1888.2	197	515.2	275.2
2016	12-Aug-16	8	262.1	376.4	0.31		2208.9	484.7	551.5	280.4
2016	12-Aug-16	9	274.1	417.3	0.308		2610.5	707.1	547.6	268.7
2016	12-Aug-16	10	479.5	835.1	0.485		2883.3	867.8	605.5	542.4
2016	12-Aug-16	11	589.9	1153.1	0.772		2977.4	1196.8	822.1	770
2016	12-Aug-16	12	645.5	1106.1	0.796		2991.7	1877.7	932.9	735.8
2016	12-Aug-16	13	570.5	1068.9	0.797		3008.6	2311.8	925.9	746.9
2016	12-Aug-16	14	515.9	1007.3	0.781		3010.7	2250.9	895.5	738.2
2016	12-Aug-16	15	454.9	704.7	0.785		2994.2	1831.7	909.2	737.1
2016	12-Aug-16	16	506	648.5	0.755		3014.5	1665.4	799.1	714.5
2016	12-Aug-16	17	420.6	676.2	0.714		2970.1	973.9	824.5	757.9
2016	12-Aug-16	18	347.7	263.5	0.403		2865.5	766.9	620.9	556.5
2016	12-Aug-16	19	302	265.7	0.305		2757.5	764.3	544.5	361.2
2016	12-Aug-16	20	294.6	491.5	0.32		2814.7	759.1	540.4	309.8
2016	12-Aug-16	21	261.5	450.8	0.308		2749.6	754.1	529.2	306.6
2016	12-Aug-16	22	240	278.9	0.307		2536.6	625.405	542	295.3
2016	12-Aug-16	23	224.2	260.4	0.306		2229.7		509.2	289.9
2016	13-Aug-16	0	199.9	261.1	0.307		2001.8		508.4	282.2
2016	13-Aug-16	1	202.4	262	0.313		1861.3		494.8	279.9
2016	13-Aug-16	2	204.9	263.5	0.309		1818.2		491.7	279.9
2016	13-Aug-16	3	212	276.7	0.306		1805.8		495.8	283.5
2016	13-Aug-16	4	212.2	268.2	0.305		1821.3		483.4	283.1
2016	13-Aug-16	5	205.6	248.3	0.305		1818.4		425.3	276.6
2016	13-Aug-16	6	193.2	220.9	0.305		1814.9		454.6	278.6
2016	13-Aug-16	7	163.4	234.8	0.304		1848.2		457.2	291
2016	13-Aug-16	8	176.6	230.1	0.307		2093.9		467.6	299.9
2016	13-Aug-16	9	166.6	223.1	0.306		2458.5		484.6	300.5
2016	13-Aug-16	10	251.7	301	0.324		2601.5		485.9	350.8
2016	13-Aug-16	11	405.4	581.7	0.411		2690.2		678.9	534
2016	13-Aug-16	12	454.8	864.6	0.735		2973.6		766.3	615
2016	13-Aug-16	13	419.8	976.3	0.803		3043.4		711.7	731.9
2016	13-Aug-16	14	470.1	1016.3	0.795		3033.2		786.6	788.3
2016	13-Aug-16	15	438.3	743.1	0.808		2996.5		768.9	763.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	13-Aug-16	16	497.8	931.2	0.812		3015.7		770.5	754
2016	13-Aug-16	17	501.2	973.3	0.794		3017.8		764.5	726.8
2016	13-Aug-16	18	526.1	939.4	0.684		3084.8		702.4	599.7
2016	13-Aug-16	19	509.6	903.2	0.793		3024.7		667.9	638.4
2016	13-Aug-16	20	565.7	810.3	0.647		3055.8		602.7	601.2
2016	13-Aug-16	21	466.7	729.9	0.523		2888.3		583.3	523.3
2016	13-Aug-16	22	317.8	495.9	0.377		2900.8		589.5	347.5
2016	13-Aug-16	23	207.5	376	0.111		2500.9		422.1	264.7
2016	14-Aug-16	0	181.1	300.9			2089.2		440.8	270
2016	14-Aug-16	1	163.5	325.7			1912.5		395.7	272.6
2016	14-Aug-16	2	184.3	320.9			1832.3		435.5	274.4
2016	14-Aug-16	3	166.9	305			1832.8		430.5	276.4
2016	14-Aug-16	4	181.2	286.3			1835.3		420.1	277.1
2016	14-Aug-16	5	158.8	266.1			1838.5		461.5	281.2
2016	14-Aug-16	6	166.4	259.4			1834.9		774.6	281.2
2016	14-Aug-16	7	142.6	252.3			1849.6		863.5	279.9
2016	14-Aug-16	8	143.2	278.3			1922.2		870.6	277.9
2016	14-Aug-16	9	141.2	292.7			2205.9		661.3	273.7
2016	14-Aug-16	10	160.5	290.4			2489.8		551.5	272.9
2016	14-Aug-16	11	195.5	323.5			2759.2		553.6	293.3
2016	14-Aug-16	12	199.4	274.2			2641.4		551.1	316.7
2016	14-Aug-16	13	244	358.3			2283.4		604.8	459.7
2016	14-Aug-16	14	404.1	740.8			2284.3		627	676.3
2016	14-Aug-16	15	472.9	988.1			2498.5		743.2	751.7
2016	14-Aug-16	16	491.7	907.3			2621.1		796.1	720.9
2016	14-Aug-16	17	343.8	468.2			2751.2		685.5	495.2
2016	14-Aug-16	18	292.2	262.4			2824.6		660	300.8
2016	14-Aug-16	19	223.2	227.7			2646.7		586.6	263.4
2016	14-Aug-16	20	181.8	253.5			2526.3		540.7	255.3
2016	14-Aug-16	21	217.1	285.1			2277.8		538.6	252.4
2016	14-Aug-16	22	185.3	268.2	0.044		1949.5		417.6	247.1
2016	14-Aug-16	23	147.6	172.8	0.062		1896.9		366.3	249.3
2016	15-Aug-16	0	114.1	105.2	0.035		1935		367.9	246.6
2016	15-Aug-16	1	75.1	80.4	0.04		1899.7		368	248.2
2016	15-Aug-16	2	67.3	86	0.06		1900.6		368.4	248
2016	15-Aug-16	3	59.1	85.8	0.049		1903		371.9	252.7
2016	15-Aug-16	4	66.2	87.2	0.061		1896.4		382.5	259.6
2016	15-Aug-16	5	62.8	108.1	0.173		1906.6		392.3	265.5
2016	15-Aug-16	6	123.6	185.2	0.006		1899.6		396.2	262.8
2016	15-Aug-16	7	132.7	234.8			1903.1		399.1	272.1
2016	15-Aug-16	8	176.2	238.2			1970		396.2	268.1
2016	15-Aug-16	9	193.4	244.1			2243		395.4	248.8
2016	15-Aug-16	10	256	336.2			2285.7		394.2	259
2016	15-Aug-16	11	249.9	398.3			2456		401	291.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	15-Aug-16	12	261.8	424.4			2615.9		402.5	417.8
2016	15-Aug-16	13	292.2	437.2			2735.9		504.6	461.5
2016	15-Aug-16	14	322.3	387.4			2840.6		463.3	459.8
2016	15-Aug-16	15	418	447			2990.5		454.5	433
2016	15-Aug-16	16	396.8	448.2			2881.9		416.1	426.8
2016	15-Aug-16	17	344.4	422.9			2981.9		384.3	415.9
2016	15-Aug-16	18	295.1	380.6			2796.3		363.4	360.2
2016	15-Aug-16	19	230.2	357.2			2616		350.9	308.8
2016	15-Aug-16	20	209.6	324.5			2371.2		349.6	262.1
2016	15-Aug-16	21	183	306.2			2104.1		373.7	357
2016	15-Aug-16	22	139.3	260.2			1898.7		361.7	294.1
2016	15-Aug-16	23	88.2	207.1			2113.5		391.4	288.1
2016	16-Aug-16	0	62.4	161.3			1956.6		393.1	321.7
2016	16-Aug-16	1	49	115			2014.7		387.6	267.8
2016	16-Aug-16	2	50.4	94.6	0.002		1913.4		364.2	270.3
2016	16-Aug-16	3	40.1	94.6	0.024		1894.4		386.7	269.2
2016	16-Aug-16	4	44.4	90.2	0.041		1902.5		383.8	269.1
2016	16-Aug-16	5	69.5	90.4	0.034		1891.1		386.3	279.1
2016	16-Aug-16	6	126.1	75.1	0.043		1899.7		391.8	279.2
2016	16-Aug-16	7	157	88.7	0.061		1896		394.6	283.6
2016	16-Aug-16	8	203.3	87.7	0.067		1886.8		407.8	291.7
2016	16-Aug-16	9	264.3	210	0.076		2151.6		405.5	305.6
2016	16-Aug-16	10	557.5	416	0.087		2333.9		394.1	413
2016	16-Aug-16	11	686.1	915.7	0.027		2594.3		388.5	410.8
2016	16-Aug-16	12	767.6	1405.2			2787.5		416.9	490.2
2016	16-Aug-16	13	752.9	1092.7			2985.9		592.5	457
2016	16-Aug-16	14	821.7	1002.8			3074.5		667.2	581.6
2016	16-Aug-16	15	672	1089.2			3071.1		677.2	676.1
2016	16-Aug-16	16	748.6	987.1			3044.1		602.3	612.1
2016	16-Aug-16	17	774.8	1152.7			3046.5		571.6	549.6
2016	16-Aug-16	18	761.9	1015.6			2953.8		557.4	385.9
2016	16-Aug-16	19	776.2	885.4			3012.6		528.8	279.1
2016	16-Aug-16	20	791.2	873.8			2875.4		467.5	277.6
2016	16-Aug-16	21	727.9	838.6			2867.1		405.4	275.5
2016	16-Aug-16	22	420.3	502			2793.3		394.2	272.9
2016	16-Aug-16	23	150.5	216.6			2398.5		397.6	271.1
2016	17-Aug-16	0	95.2	130.2			1932.364		392.9	276.3
2016	17-Aug-16	1	68.3	94.9			1918.4		380.4	269.6
2016	17-Aug-16	2	65	116.4			1942.1		404.1	270.5
2016	17-Aug-16	3	58.4	117.3			1946		387.1	267.1
2016	17-Aug-16	4	65	113.5			1950		374.1	269
2016	17-Aug-16	5	74.9	130.8			1964.8		398.8	265.5
2016	17-Aug-16	6	100.9	184			2002.9		395.3	269.9
2016	17-Aug-16	7	111.5	280.9			2013.6		400.4	272.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-Aug-16	8	174.6	325.6			2133		389.3	272.3
2016	17-Aug-16	9	185	385.6			2334		410.7	272.7
2016	17-Aug-16	10	195.1	364			2375.6		403	310.7
2016	17-Aug-16	11	186.3	338.2			2307.6		555.8	472.5
2016	17-Aug-16	12	200.3	245.6			2410.5		683.8	521.3
2016	17-Aug-16	13	243.8	275.2			2750.8		837.4	686.4
2016	17-Aug-16	14	288.5	365.1			2779.3		825.2	715.5
2016	17-Aug-16	15	198.3	263.6			2831.5		785.2	718.6
2016	17-Aug-16	16	197.8	242.9			3092		779.4	723.7
2016	17-Aug-16	17	153.3	220.4			3130.9		758.2	740.3
2016	17-Aug-16	18	248.8	332.7			3083		740.6	737.4
2016	17-Aug-16	19	383.2	595.7			3032.9		759.1	716.8
2016	17-Aug-16	20	421.2	534.1			2753.7		669.7	644.5
2016	17-Aug-16	21	223.8	296.2			2339.4		559.9	392.1
2016	17-Aug-16	22	152.4	186.6			1975.7		564.6	269.8
2016	17-Aug-16	23	81.7	112.5			1902.2		499.7	269.4
2016	18-Aug-16	0	59.4	85.4			1869.5		371	267.5
2016	18-Aug-16	1	51	95.5			1868.9		351.5	265.3
2016	18-Aug-16	2	53.9	89.6			1869.2		340.1	285.7
2016	18-Aug-16	3	47.2	88.6			1860.7		356.1	333.9
2016	18-Aug-16	4	53.6	88.1			1884.6		383.4	275.7
2016	18-Aug-16	5	139.7	174.2			1907.7		351.2	268.5
2016	18-Aug-16	6	180.4	298.6			1997.2		348	261
2016	18-Aug-16	7	128.3	265.6			2346.4		343.5	262.9
2016	18-Aug-16	8	128.2	230.5			2580.9		353.4	254.7
2016	18-Aug-16	9	127.1	206.6			2624.4		370.5	257.9
2016	18-Aug-16	10	168.1	227.7			2674.2		362	257.8
2016	18-Aug-16	11	423.8	485.6			2876.3		351.6	262
2016	18-Aug-16	12	548.8	703.1			3003.9		353.5	281.6
2016	18-Aug-16	13	580.9	633.6			3020.3		490.1	472.8
2016	18-Aug-16	14	614.8	622.8			3013.9		710.7	685.6
2016	18-Aug-16	15	587.8	534.7			3065		751	714.6
2016	18-Aug-16	16	673.8	376.8			3054.6		823.7	709.5
2016	18-Aug-16	17	630.4	414.8			3072.9		766	681.9
2016	18-Aug-16	18	581.5	305.5			3011.8		606.2	500.8
2016	18-Aug-16	19	559.1	422.9			2933.4		600.5	458
2016	18-Aug-16	20	521.1	395.8			2666.4		515.1	395.5
2016	18-Aug-16	21	330.1	185.3			2491.3		402.2	293.4
2016	18-Aug-16	22	253.7	107.6			2490.6		392.9	279
2016	18-Aug-16	23	175.5	75.2			2211.8		390.7	275.1
2016	19-Aug-16	0	128.1	67.8			1821.5		392.8	273.7
2016	19-Aug-16	1	61.6	91.6			1808.3		360.9	269.3
2016	19-Aug-16	2	58.8	108.1			1763.6		363.3	289.1
2016	19-Aug-16	3	47	109.1			1783.9		420.2	275.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	19-Aug-16	4	50.8	105.1			1811.6		401.6	275.6
2016	19-Aug-16	5	40.6	100.4			1942.5		446.6	275.8
2016	19-Aug-16	6	45.1	106.3			1824.2		452.7	275.8
2016	19-Aug-16	7	54.4	214.6			1922.6		451.8	278.7
2016	19-Aug-16	8	109.3	296.9			2078.2		483.3	279.4
2016	19-Aug-16	9	217	363.9			2343		480.2	278.7
2016	19-Aug-16	10	223.8	316.9			2487.5		513.9	293.6
2016	19-Aug-16	11	241.4	356.8			2615.6		488	305.7
2016	19-Aug-16	12	275.2	356.1			2611.8		565	385.6
2016	19-Aug-16	13	247.8	298.6			2769.2		525.8	291.7
2016	19-Aug-16	14	304.4	325.8			2772.5		469.7	306.4
2016	19-Aug-16	15	446.8	487.6			2907.7		468.9	305.7
2016	19-Aug-16	16	589.7	678			2917.1		487.4	280.4
2016	19-Aug-16	17	489.9	542.9			2891.1		499.6	280.1
2016	19-Aug-16	18	480.7	445.7			2911.1		514.4	288.7
2016	19-Aug-16	19	366.5	359.7			2738.8		494.8	284.4
2016	19-Aug-16	20	284.1	320.8			2620.4		479.8	275.6
2016	19-Aug-16	21	188.8	236.2			2562.4		472.5	273.5
2016	19-Aug-16	22	125.3	188.9			2208		360.836	277.1
2016	19-Aug-16	23	102.2	132.4			2065.8			173.8
2016	20-Aug-16	0	80.4	87.8			1952.1			41.625
2016	20-Aug-16	1	45.6	89.1			1799.3			
2016	20-Aug-16	2	45.4	91.2			1814			
2016	20-Aug-16	3	40.6	86.8			1825			
2016	20-Aug-16	4	40.3	86.4			1814.3			
2016	20-Aug-16	5	33.4	140			1848.5			
2016	20-Aug-16	6	89.7	206.6			1825.7			
2016	20-Aug-16	7	96.2	278.2			1940.9			
2016	20-Aug-16	8	117.2	306			1831			
2016	20-Aug-16	9	144.3	330.6			2003.3			
2016	20-Aug-16	10	170.2	300.1			2242.1			
2016	20-Aug-16	11	210	319.6			2493.1			
2016	20-Aug-16	12	214.4	301.2			2791.4			
2016	20-Aug-16	13	241.6	274.8			2693.6			
2016	20-Aug-16	14	266.1	323.8			2625			
2016	20-Aug-16	15	285.6	361.4			2606			
2016	20-Aug-16	16	297.2	377.5			2561.9			
2016	20-Aug-16	17	417.5	413.3			2498.3			
2016	20-Aug-16	18	529.3	474.4			2521.7			
2016	20-Aug-16	19	587.9	597.7			2833.7			
2016	20-Aug-16	20	558.6	451.8			2898.6			
2016	20-Aug-16	21	445.4	341.1			2498			
2016	20-Aug-16	22	328	249.4			2336.3			
2016	20-Aug-16	23	218	182.4			2142.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-Aug-16	0	100.6	147.3			1910.1			
2016	21-Aug-16	1	75.1	111			1769			
2016	21-Aug-16	2	61.6	92.7			1757.9			
2016	21-Aug-16	3	70.6	90.4			1725.8			
2016	21-Aug-16	4	55.3	93.9			1755.8			
2016	21-Aug-16	5	91.1	130.1			1889			
2016	21-Aug-16	6	166.9	187.6			1833.1			
2016	21-Aug-16	7	209.5	254.5			1751.6			
2016	21-Aug-16	8	228.5	264			1761.5			
2016	21-Aug-16	9	240.2	266.7			1772.8			
2016	21-Aug-16	10	235.2	259.5			2021.9			
2016	21-Aug-16	11	191.3	241.7			2160.5			
2016	21-Aug-16	12	166.7	217.9			2268.6			
2016	21-Aug-16	13	185.9	222.5			2173.3			
2016	21-Aug-16	14	189.2	219.6			1930.5			
2016	21-Aug-16	15	213.7	231.5			1846.6			
2016	21-Aug-16	16	248.4	256.7			1965.1			
2016	21-Aug-16	17	353.9	399.6			2211.4			
2016	21-Aug-16	18	352.2	382.6			2518.1			
2016	21-Aug-16	19	386.8	328.6			2727.6			
2016	21-Aug-16	20	341.7	324.7			2767.2			
2016	21-Aug-16	21	300.7	267.6			2355.2			
2016	21-Aug-16	22	235.6	218.2			1997.4			
2016	21-Aug-16	23	178.3	193.2			1792.8			
2016	22-Aug-16	0	116.2	111.4			1770.9			
2016	22-Aug-16	1	94	88.9			1771.3			
2016	22-Aug-16	2	66.3	87.2			1791.7			
2016	22-Aug-16	3	66.8	87.3			1781.8			
2016	22-Aug-16	4	53	82.9			1791.5			
2016	22-Aug-16	5	71.7	103.2			1817.7			
2016	22-Aug-16	6	127.3	219.1			1794.1			
2016	22-Aug-16	7	142.8	255.8			1797.1			
2016	22-Aug-16	8	144	250.9			1900.9			
2016	22-Aug-16	9	157.5	268.5			2124.7			
2016	22-Aug-16	10	250.7	246.5			2539			
2016	22-Aug-16	11	375.7	98.2			2831.3			
2016	22-Aug-16	12	498.6	171.4			2944.9			
2016	22-Aug-16	13	542	283.4			2961.5			
2016	22-Aug-16	14	587.4	415.6			2957.1			
2016	22-Aug-16	15	535.2	634.8			2935			
2016	22-Aug-16	16	588.5	657.5			2977.7			
2016	22-Aug-16	17	522.3	641.1			2995			
2016	22-Aug-16	18	571	577.4			2966.6			
2016	22-Aug-16	19	532.3	554			3023.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	22-Aug-16	20	582	524.7			2964.3			
2016	22-Aug-16	21	442.6	474.6			2698.3			
2016	22-Aug-16	22	430.6	408.3			2630.6			
2016	22-Aug-16	23	283.6	272.1			2462.5			
2016	23-Aug-16	0	184.4	228			2354.9			
2016	23-Aug-16	1	264.6	274			2462.2			
2016	23-Aug-16	2	309.3	266.8			2414.1			
2016	23-Aug-16	3	268.7	258.5			2491.6			
2016	23-Aug-16	4	207.7	236			2334.8			
2016	23-Aug-16	5	252.5	251.7			2424.7			
2016	23-Aug-16	6	320.2	314.5			2796.7			
2016	23-Aug-16	7	311.4	375.9			2943.8			
2016	23-Aug-16	8	298.6	356			3308.5			
2016	23-Aug-16	9	417.5	440.1			2967.3			
2016	23-Aug-16	10	498.7	492.5			2884.3			
2016	23-Aug-16	11	470.3	473.7			2733.6			
2016	23-Aug-16	12	506.3	443.6			2808.6			
2016	23-Aug-16	13	540.6	491.2			2775			
2016	23-Aug-16	14	583.1	513.5			2697.5			
2016	23-Aug-16	15	547.3	519.4			3123.1			
2016	23-Aug-16	16	605.7	545.1			3304.7			
2016	23-Aug-16	17	564.1	565.8			3301.1			
2016	23-Aug-16	18	599.8	575.6			3334.7			
2016	23-Aug-16	19	580.5	592.7			3362.1			
2016	23-Aug-16	20	596.3	730.7			3334.7			
2016	23-Aug-16	21	472.1	501.8			3200.8			
2016	23-Aug-16	22	242.7	287.9			2792.3			
2016	23-Aug-16	23	149.6	222.6			2330.8			
2016	24-Aug-16	0	82.3	205.8			2166.9			
2016	24-Aug-16	1	63.9	181.1			2064.5			
2016	24-Aug-16	2	46.8	134.8			1921.7			
2016	24-Aug-16	3	48.8	115.6			2013.7			
2016	24-Aug-16	4	40.1	100.6			2016.2			
2016	24-Aug-16	5	59.6	80.6			2155.51			
2016	24-Aug-16	6	64.4	76.2			2421.8			
2016	24-Aug-16	7	55.1	83			2600.7			
2016	24-Aug-16	8	93	139.5			2858.1			
2016	24-Aug-16	9	74.5	108.9			3130			
2016	24-Aug-16	10	85.8	104.2			3299			
2016	24-Aug-16	11	168.1	168.2			3210.8			
2016	24-Aug-16	12	194	214			3273.5			
2016	24-Aug-16	13	227.3	341.2			3148.2			
2016	24-Aug-16	14	320.3	340.8			2982.6			
2016	24-Aug-16	15	583.9	664.9			3123.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	24-Aug-16	16	433.2	451.8			3381.9			
2016	24-Aug-16	17	446.4	449.7			3404.9			
2016	24-Aug-16	18	581.9	781.2			3426.4			
2016	24-Aug-16	19	641.5	857.7			3439.6			
2016	24-Aug-16	20	566.2	723.8			3433.9			
2016	24-Aug-16	21	372.8	446.6			3245.1			
2016	24-Aug-16	22	328.5	237.1			3038.5			
2016	24-Aug-16	23	233.9	140.4			2496.6			
2016	25-Aug-16	0	181	81.8			2318.2			
2016	25-Aug-16	1	142.3	80.2			2174.1			
2016	25-Aug-16	2	94.1	76.6			2021.7			
2016	25-Aug-16	3	77.9	81.8			2040			
2016	25-Aug-16	4	64.8	83.2			2035.3			
2016	25-Aug-16	5	145.6	139.5			2052.3			
2016	25-Aug-16	6	169.2	226.6			2025.3			
2016	25-Aug-16	7	173.8	267.6			2375.9			
2016	25-Aug-16	8	200.5	269.2			3106.8			
2016	25-Aug-16	9	280.1	285.9			2817.9			
2016	25-Aug-16	10	441.9	357.8			2523.3			
2016	25-Aug-16	11	664.7	601.7			2462.8			
2016	25-Aug-16	12	743.6	770.4			2484.2			
2016	25-Aug-16	13	725.7	879.5			2967.8			13.3
2016	25-Aug-16	14	751.5	843.9			3316.9			1.6
2016	25-Aug-16	15	719.2	802			3420.4			0.4
2016	25-Aug-16	16	770.9	802.2			3458.1			0
2016	25-Aug-16	17	737.8	841.2			3346.2			0
2016	25-Aug-16	18	775.6	847.8			3386.1			0
2016	25-Aug-16	19	759	850.1			3436.4			0
2016	25-Aug-16	20	750.4	855.7			3452.8			0
2016	25-Aug-16	21	660.1	779.4			3423			0
2016	25-Aug-16	22	543.5	641.4			3239			0
2016	25-Aug-16	23	250	495.1			2940.3			0
2016	26-Aug-16	0	140.6	385			2439.1			0
2016	26-Aug-16	1	102.1	286.5			2228.6			0
2016	26-Aug-16	2	125.9	215.8			2325.6			0
2016	26-Aug-16	3	82.6	189.8			2263.5			0
2016	26-Aug-16	4	81.7	172.6			2248.9			5.8
2016	26-Aug-16	5	107.8	176.9			2466.9			28.8
2016	26-Aug-16	6	135.8	187.5			2281			75.1
2016	26-Aug-16	7	190.5	245			2649.1			154.3
2016	26-Aug-16	8	245.2	321.9			3042.6			231.5
2016	26-Aug-16	9	239.3	287.2			3217.6			315.1
2016	26-Aug-16	10	305.4	289.2			3249.8			374.7
2016	26-Aug-16	11	503.1	356.6			3449.4			365.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	26-Aug-16	12	597.8	462.2			3536.9			454.6
2016	26-Aug-16	13	621.2	670.5			3612.9			586
2016	26-Aug-16	14	684.6	712.3			3623.7			701.7
2016	26-Aug-16	15	693	715.6			3623.8			735
2016	26-Aug-16	16	745.3	721.1			3698.5			613.6
2016	26-Aug-16	17	521.5	603.4	0.03		3592.1			463.2
2016	26-Aug-16	18	663.3	649	0.033		3718.1			337
2016	26-Aug-16	19	738.2	734.9	0.033		3817			325.9
2016	26-Aug-16	20	857.1	930.9	0.032		3847.7			412.6
2016	26-Aug-16	21	908.5	972.8	0.032		3870.2			402.5
2016	26-Aug-16	22	713.3	606.3	0.033		3856.1			283.7
2016	26-Aug-16	23	549.7	427.4	0.06		3765.6			287.1
2016	27-Aug-16	0	378.2	256.6	0.069		3038.5			285.2
2016	27-Aug-16	1	320.8	254.6	0.079		3149.3			284.9
2016	27-Aug-16	2	307.3	243.8	0.071		3092.3			284.7
2016	27-Aug-16	3	233.7	177.6	0.062		2931.8			283.2
2016	27-Aug-16	4	204.5	148.1	0.062		2833.9			284.9
2016	27-Aug-16	5	284.8	216	0.073		3178.7			279.2
2016	27-Aug-16	6	304.5	263.5	0.113		3340.3			247
2016	27-Aug-16	7	336.4	319.4	0.181		3388.9			278
2016	27-Aug-16	8	415.8	364.1	0.296		3462.1			280
2016	27-Aug-16	9	522.7	505.8	0.313		3592.5			302.2
2016	27-Aug-16	10	750.8	710.4	0.31		3777.8			416.4
2016	27-Aug-16	11	823.7	918.2	0.313		3809.5			479.8
2016	27-Aug-16	12	813.8	885.9	0.333		3830.9			648.2
2016	27-Aug-16	13	771	890.1	0.379		3776.2			650.5
2016	27-Aug-16	14	643.8	786.2	0.359		3749.4			643.3
2016	27-Aug-16	15	586	581.9	0.439		3718.6			644.7
2016	27-Aug-16	16	576.3	591.6	0.412		3659.6			738.9
2016	27-Aug-16	17	597.5	646.1	0.417		3649.4			721.7
2016	27-Aug-16	18	666.6	643.8	0.319		3628.2			551.6
2016	27-Aug-16	19	644.2	670.6	0.313		3578.2			491.9
2016	27-Aug-16	20	541.8	544.8	0.307		3469.6			357.3
2016	27-Aug-16	21	463.1	502.2	0.025		3485.6			298.4
2016	27-Aug-16	22	346	402.8			3184.4			304.8
2016	27-Aug-16	23	207.8	295.6			2783.2			283.7
2016	28-Aug-16	0	128.1	180.7			2495.4			290.6
2016	28-Aug-16	1	121.2	116.6			2443.1			288.5
2016	28-Aug-16	2	77.4	76.5			2170.4			285.7
2016	28-Aug-16	3	89.1	75			2107.3			316.3
2016	28-Aug-16	4	109.4	93.2			2359			288.7
2016	28-Aug-16	5	201.9	123.1			2476.2			287.4
2016	28-Aug-16	6	172.4	130.3			2546.7			287.6
2016	28-Aug-16	7	204.2	167.8			2740.3			284

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-Aug-16	8	210.5	221			2868.1			287.6
2016	28-Aug-16	9	180.7	186.6			2900.5			284.8
2016	28-Aug-16	10	212.3	212.7			3153.7			294.4
2016	28-Aug-16	11	321.7	266.2			3374.2			291.6
2016	28-Aug-16	12	415.5	327.5			3532.5			328.5
2016	28-Aug-16	13	491	462.9			3769			390.6
2016	28-Aug-16	14	469.5	438.2			3672.7			403.8
2016	28-Aug-16	15	533.2	565.8			3767.6			599.9
2016	28-Aug-16	16	488.3	525.8			3554.6			558.5
2016	28-Aug-16	17	390.2	410.7			3429.5			423.3
2016	28-Aug-16	18	463.7	569.8			3543.5			530.9
2016	28-Aug-16	19	497	556.1			3570.8			410.6
2016	28-Aug-16	20	497.8	506.5			3538.3			424.6
2016	28-Aug-16	21	380.7	296.1			3511.8			463.1
2016	28-Aug-16	22	193.7	167.7			3188.2			508.8
2016	28-Aug-16	23	148.7	83.5	0.001		2730.2			307.7
2016	29-Aug-16	0	120.3	80.9	0.033		2274.4			297.1
2016	29-Aug-16	1	92.4	95.4	0.058		2170.3			292.9
2016	29-Aug-16	2	74.6	93.6	0.062		2150.2			291
2016	29-Aug-16	3	79.3	95.3	0.062		2134.3			288.9
2016	29-Aug-16	4	64.1	90.7	0.053		2111.2			287.3
2016	29-Aug-16	5	86.9	85.2	0.056		2295.5			284.9
2016	29-Aug-16	6	82.9	106.3	0.052		2571.2			267.6
2016	29-Aug-16	7	105.9	110	0.061		2766.1			288.9
2016	29-Aug-16	8	169.8	167.4	0.084		3136.9			287.9
2016	29-Aug-16	9	218.6	243.9	0.214		3267.1			285.8
2016	29-Aug-16	10	225.6	231.6	0.311		3349.6			297.8
2016	29-Aug-16	11	232.3	286.3	0.371		3385.1			348.6
2016	29-Aug-16	12	309	486.4	0.373		3509.7			314.5
2016	29-Aug-16	13	382.9	510.9	0.327		3442.6			92
2016	29-Aug-16	14	616.3	619.5	0.329		3604.4			0.9
2016	29-Aug-16	15	746.6	851.9	0.518		3622.1			99.9
2016	29-Aug-16	16	786.8	857.2	0.526		3631.4			363.8
2016	29-Aug-16	17	726.9	818.3	0.648		3596.6			589.2
2016	29-Aug-16	18	681.7	613.9	0.484		3512.6			563.8
2016	29-Aug-16	19	686.3	1025.1	0.585		3514.2			630.6
2016	29-Aug-16	20	864.1	909.4	0.486		3545.5			594.6
2016	29-Aug-16	21	632.8	485.8	0.356		3311.9			463.4
2016	29-Aug-16	22	591.8	487.9	0.342		3443.5			476.8
2016	29-Aug-16	23	369.3	182.8	0.316		3141.4			307.8
2016	30-Aug-16	0	208	98.4	0.316		2656.6			296.5
2016	30-Aug-16	1	141	112.1	0.313		2428.4			292.6
2016	30-Aug-16	2	76.9	101.3	0.313		2154.6			292
2016	30-Aug-16	3	72.1	102.6	0.313		2165.1			288.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	30-Aug-16	4	75.8	107.2	0.455		2177.7			287.2
2016	30-Aug-16	5	82.9	110.7	0.726		2490.7			287.8
2016	30-Aug-16	6	104.5	110.1	0.783		3094.9			290.3
2016	30-Aug-16	7	98.8	140.2	0.781		3530.2			315.5
2016	30-Aug-16	8	132.6	237.1	0.781		3489.1			357.2
2016	30-Aug-16	9	184.7	337.5	0.781		3475.3			359.7
2016	30-Aug-16	10	295.7	385.5	0.781		3483.4			329.4
2016	30-Aug-16	11	460	545.4	0.781		3477.8			312.6
2016	30-Aug-16	12	595.7	640.3	0.781		3500.9			324.8
2016	30-Aug-16	13	617.3	668.5	0.763		3479.2			414
2016	30-Aug-16	14	655.7	646.4	0.746		3466.8			519.5
2016	30-Aug-16	15	639.4	647.2	0.691		3465.8			559.4
2016	30-Aug-16	16	628.4	744.9	0.739		3393.8			651.2
2016	30-Aug-16	17	681.2	687.5	0.553		3309.6			660.1
2016	30-Aug-16	18	757.9	850.6	0.258		3284			608.3
2016	30-Aug-16	19	815.4	969.8	0.003		3293.3			701
2016	30-Aug-16	20	829	871.4			3300.1			679.6
2016	30-Aug-16	21	646.8	604.2			3073.3			559.6
2016	30-Aug-16	22	428.8	429.9			2641.4			360.2
2016	30-Aug-16	23	272.2	290.9			2210.1			291.6
2016	31-Aug-16	0	134.5	199			2061.5			280.1
2016	31-Aug-16	1	90.1	138.2			2049.1			278.5
2016	31-Aug-16	2	74.8	107.7			2022.1			282.2
2016	31-Aug-16	3	74.2	113			2016.5			281.6
2016	31-Aug-16	4	68.9	111.9			2371.3			275.5
2016	31-Aug-16	5	77	117.9			2955.8			284.5
2016	31-Aug-16	6	63.1	110.8			3313.8			348.5
2016	31-Aug-16	7	45.5	130.5			3296.7			378.7
2016	31-Aug-16	8	75.8	156.3			3303.4			725
2016	31-Aug-16	9	109.7	121.1			3331.7			1364.4
2016	31-Aug-16	10	128.7	157.3			3343.7			1581.2
2016	31-Aug-16	11	129.4	107.3			3311.4			1609.2
2016	31-Aug-16	12	160.1	127.8			3316.1			1610.5
2016	31-Aug-16	13	267.6	216.4			3316.3			1647
2016	31-Aug-16	14	465.8	475.9			3310.9			1687.4
2016	31-Aug-16	15	447.1	527.3			3290.5			1767.4
2016	31-Aug-16	16	463	459.1			3268.3			1910.7
2016	31-Aug-16	17	381.4	362.8			3164.9			1856.3
2016	31-Aug-16	18	299.6	368.3			3202.8			1710.9
2016	31-Aug-16	19	316.6	378.6			3246.2			1287
2016	31-Aug-16	20	232	287.8			3109.7			902
2016	31-Aug-16	21	208.2	193.3			2972.9			498.9
2016	31-Aug-16	22	122.3	136.5			2771.2			349.7
2016	31-Aug-16	23	94	108.5			2502.1			361.4



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-Sep-16	0	48.6	93			2135.1			304.4
2016	1-Sep-16	1	53.3	89.8			2041.1			202.4
2016	1-Sep-16	2	35.8	83.2			2005.7			118.4
2016	1-Sep-16	3	52.9	79.3			1991.2			30.666
2016	1-Sep-16	4	38.7	76.1			2133.5			
2016	1-Sep-16	5	49.5	82			2913.5			
2016	1-Sep-16	6	38.6	83.8			3316.1			
2016	1-Sep-16	7	25.3	82.2			2897.6			
2016	1-Sep-16	8	23.6	86.2			2900			
2016	1-Sep-16	9	50.1	113.2			2876.8			
2016	1-Sep-16	10	103.5	254.1			2876.9			
2016	1-Sep-16	11	259.1	439			2933.7			
2016	1-Sep-16	12	215.7	395.7			2913.2			
2016	1-Sep-16	13	262	407.4			2866.3			
2016	1-Sep-16	14	246.9	362.6			2852.4			
2016	1-Sep-16	15	377.1	391.5			3082.1			
2016	1-Sep-16	16	715.8	614.4			2676.6			
2016	1-Sep-16	17	740.7	837	0.007		2655.6			
2016	1-Sep-16	18	582.1	624.6	0.033		2744.4			
2016	1-Sep-16	19	585	662.8	0.033		3347.2			
2016	1-Sep-16	20	532.8	516.1	0.038		3427.5			
2016	1-Sep-16	21	403.7	372.7	0.071		3275			
2016	1-Sep-16	22	231.5	246.4	0.078		3233			
2016	1-Sep-16	23	172.4	192.2	0.084		2451.1			
2016	2-Sep-16	0	125.8	192.2	0.084		1973.3			
2016	2-Sep-16	1	132.1	158.8	0.082		1256.4			
2016	2-Sep-16	2	78	114.1	0.076		65.205			
2016	2-Sep-16	3	89.8	113.9	0.073					
2016	2-Sep-16	4	73.3	141	0.073					
2016	2-Sep-16	5	131.3	200.1	0.073					
2016	2-Sep-16	6	148.9	239.7	0.071					
2016	2-Sep-16	7	139.4	221.9	0.063					
2016	2-Sep-16	8	139.5	218.6	0.063					
2016	2-Sep-16	9	231.5	322.5	0.063					
2016	2-Sep-16	10	251.5	388.5	0.067					
2016	2-Sep-16	11	325.9	512	0.073					
2016	2-Sep-16	12	297	511.2	0.069					
2016	2-Sep-16	13	351.2	572.9	0.011					
2016	2-Sep-16	14	312	533.7						
2016	2-Sep-16	15	339.9	528.5						
2016	2-Sep-16	16	346.2	602.1						
2016	2-Sep-16	17	387.3	638.5						
2016	2-Sep-16	18	335.7	595.9						
2016	2-Sep-16	19	448.4	755						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	2-Sep-16	20	369.8	589.5						
2016	2-Sep-16	21	315.5	466.5						
2016	2-Sep-16	22	210.9	290						
2016	2-Sep-16	23	180.3	131.4						
2016	3-Sep-16	0	204.1	82.222						
2016	3-Sep-16	1	207.3							
2016	3-Sep-16	2	178.3							
2016	3-Sep-16	3	176.5							
2016	3-Sep-16	4	156.7							
2016	3-Sep-16	5	179							
2016	3-Sep-16	6	138.3							
2016	3-Sep-16	7	124.5							
2016	3-Sep-16	8	217.9							
2016	3-Sep-16	9	240.3							
2016	3-Sep-16	10	555.7							
2016	3-Sep-16	11	707.9							
2016	3-Sep-16	12	654.1							
2016	3-Sep-16	13	685.2							
2016	3-Sep-16	14	688.6							
2016	3-Sep-16	15	675							
2016	3-Sep-16	16	688.7							
2016	3-Sep-16	17	641.7							
2016	3-Sep-16	18	669.1							
2016	3-Sep-16	19	650.8							
2016	3-Sep-16	20	666							
2016	3-Sep-16	21	621.1							
2016	3-Sep-16	22	406.9							
2016	3-Sep-16	23	278							
2016	4-Sep-16	0	142.4							
2016	4-Sep-16	1	111.5							
2016	4-Sep-16	2	50.1							
2016	4-Sep-16	3	79.4							
2016	4-Sep-16	4	46.1							
2016	4-Sep-16	5	71.5							
2016	4-Sep-16	6	53.2							
2016	4-Sep-16	7	36.9							
2016	4-Sep-16	8	32.5							
2016	4-Sep-16	9	108.7							
2016	4-Sep-16	10	300.5							
2016	4-Sep-16	11	463.5							
2016	4-Sep-16	12	538.4							
2016	4-Sep-16	13	665.8		0.015					
2016	4-Sep-16	14	692		0.033					
2016	4-Sep-16	15	626.2		0.044					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	4-Sep-16	16	663.4		0.063					
2016	4-Sep-16	17	599.3		0.063					
2016	4-Sep-16	18	634.5		0.063					
2016	4-Sep-16	19	564.4		0.063					
2016	4-Sep-16	20	550.3		0.062					
2016	4-Sep-16	21	448.4		0.062		0			
2016	4-Sep-16	22	302.6		0.062		0			
2016	4-Sep-16	23	214.9		0.062		0			
2016	5-Sep-16	0	90.7		0.062		0.6			
2016	5-Sep-16	1	80.5		0.062		0			
2016	5-Sep-16	2	47.9		0.062		0			
2016	5-Sep-16	3	77		0.062		83.2			
2016	5-Sep-16	4	46.5		0.062		168.9			
2016	5-Sep-16	5	73		0.062		189.4			
2016	5-Sep-16	6	52.4		0.062		201.8			
2016	5-Sep-16	7	36.1		0.057		321.5			
2016	5-Sep-16	8	31.2				645.9			
2016	5-Sep-16	9	39.3				1260.9			
2016	5-Sep-16	10	79.7				1707.1			
2016	5-Sep-16	11	191.8				2347.4			
2016	5-Sep-16	12	279.6				2774.9			
2016	5-Sep-16	13	489.2				3153.6			0
2016	5-Sep-16	14	582.4				3335			0
2016	5-Sep-16	15	589.6				3367.2			1.3
2016	5-Sep-16	16	640				3464.7			0.46
2016	5-Sep-16	17	580.7				3453.6			0
2016	5-Sep-16	18	644.1				3441.6		29.095	0
2016	5-Sep-16	19	423.9				3382.9		126.5	0
2016	5-Sep-16	20	396.5				3357.4		0.3	0
2016	5-Sep-16	21	348.8				3357.8		4.8	0
2016	5-Sep-16	22	235.7				3237.4		31.9	0
2016	5-Sep-16	23	166.1				2883.8		38.1	0
2016	6-Sep-16	0	61.8		0.004		2382.3		39.6	65.2
2016	6-Sep-16	1	67.9	0.16	0.034		2049.4		29	102.2
2016	6-Sep-16	2	45	1.6	0.06		2045.9		40.5	135.3
2016	6-Sep-16	3	60.9	1.7	0.063		2017.5		46.8	138.5
2016	6-Sep-16	4	38	2.6	0.063		1997.2		36.5	226.3
2016	6-Sep-16	5	58.1	4.1	0.063		2072.6		32	525.3
2016	6-Sep-16	6	74.8	4.2	0.063		2205.5		31	565.1
2016	6-Sep-16	7	29	5	0.063		2272.9		49.7	556.8
2016	6-Sep-16	8	71.3	3.3	0.083		450.338		105.4	605.2
2016	6-Sep-16	9	192.9	2.5	0.181				126.6	896.2
2016	6-Sep-16	10	354.9	2.5	0.287				126.2	91.125
2016	6-Sep-16	11	423.9	2.5	0.446				183.7	0.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-Sep-16	12	427	2.9	0.54				272	137.2
2016	6-Sep-16	13	385.3	2.9	0.382				380.2	423.2
2016	6-Sep-16	14	441.5	2.9					474	604
2016	6-Sep-16	15	370.7	2.9					1012.7	811.1
2016	6-Sep-16	16	457.1	2.9					1195.9	1238.6
2016	6-Sep-16	17	446.3	2.9					1547.8	1395.5
2016	6-Sep-16	18	564.8	2.9					1781.9	1435.5
2016	6-Sep-16	19	490.5	2.9				0.024	1759.5	1421.7
2016	6-Sep-16	20	594.9	3.9				0.072	1697.3	1397.8
2016	6-Sep-16	21	558.8	12.9				0.072	1532.9	1344.2
2016	6-Sep-16	22	653.7	14.8				0.072	1180.6	1043.5
2016	6-Sep-16	23	472.1	38.9				0.072	1166.6	840.1
2016	7-Sep-16	0	294.1	68.8				0.072	901.6	677
2016	7-Sep-16	1	165.9	79.1			0	0.072	816	572.4
2016	7-Sep-16	2	80.5	164.1			1.8	0.072	783.4	551.7
2016	7-Sep-16	3	55.3	212.5			119.5	0.072	768.2	515.4
2016	7-Sep-16	4	50.1	304.5			239.8	0.072	793.4	523.4
2016	7-Sep-16	5	34.8	430.7			321	0.072	765.3	570.6
2016	7-Sep-16	6	31.2	771.8			387.3	0.072	796.4	589.3
2016	7-Sep-16	7	16.6	353			712.6	0.072	794.3	594.9
2016	7-Sep-16	8	23.7	83.9			1337.6	0.072	726.6	524
2016	7-Sep-16	9	45.9	92.3			2017.1	0.072	716.4	523.3
2016	7-Sep-16	10	67.8	75.9			2377	0.072	686.7	521
2016	7-Sep-16	11	91.6	97.9			2789.1	0.042	748.6	587.1
2016	7-Sep-16	12	197.2	177.1			3098.8		1000.9	826.6
2016	7-Sep-16	13	346.5	317.3			3114.8		1121.7	909.2
2016	7-Sep-16	14	458.6	566.4			3174.3		1307.3	928.6
2016	7-Sep-16	15	433	630.1			2983.2		1571	917.8
2016	7-Sep-16	16	511.1	574.9			3047.3		1550.1	805.6
2016	7-Sep-16	17	443.8	479.7			3427.3		1166.6	813.7
2016	7-Sep-16	18	475.5	390.3			3355.7		1137.3	811
2016	7-Sep-16	19	421.9	291.8			3298.6		1134.7	823.6
2016	7-Sep-16	20	490.8	273.7			3399.4		1177.6	835.5
2016	7-Sep-16	21	348.4	219.9			3277.1		1080	792.3
2016	7-Sep-16	22	248.6	113.6			2962.7		899.1	752.3
2016	7-Sep-16	23	102.2	51.4			2523.7		742	534.8
2016	8-Sep-16	0	72.9	33.7			2254		741.2	530.7
2016	8-Sep-16	1	35.7	31			2235.1		748.2	527.4
2016	8-Sep-16	2	40.3	33.3			2222.8		752.3	531.6
2016	8-Sep-16	3	28.6	34.8			2207.2		755.3	536.8
2016	8-Sep-16	4	33.4	36.1			2178.7		743.8	544.1
2016	8-Sep-16	5	27	40.2			2400.7		745.9	552.2
2016	8-Sep-16	6	38.1	45.7			2229.1		738.6	548.4
2016	8-Sep-16	7	52.1	61.9			2490.5		720.3	544.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	8-Sep-16	8	129.5	109.8			2770.9		712.4	545.7
2016	8-Sep-16	9	129.9	120.1			3133.6		705.2	534
2016	8-Sep-16	10	171.6	125.2			3235.4		723.4	530.4
2016	8-Sep-16	11	331.3	161.1			3293.3		865.5	653.8
2016	8-Sep-16	12	497.6	311.9			3288.6		1124.1	1050.9
2016	8-Sep-16	13	515.4	368.8			3423.3		1507.3	1460.4
2016	8-Sep-16	14	577	32.9			3639.6		1731.1	1404.8
2016	8-Sep-16	15	529.7	11.7			3602.2		1785.3	1550.2
2016	8-Sep-16	16	577.8	9.4			3603.8		1751.8	1560.1
2016	8-Sep-16	17	564.4	9.5			3635.8		1532.4	1365.9
2016	8-Sep-16	18	623.8	9.4			3667.1		1186.9	1104.1
2016	8-Sep-16	19	504.6	9.3			3552.6		1083.8	860.2
2016	8-Sep-16	20	317	8.4			3255.4		1093.3	796.4
2016	8-Sep-16	21	177.7	8.3			3125		1108.3	579.8
2016	8-Sep-16	22	160.5	8.3			3180.7		1115.6	571.7
2016	8-Sep-16	23	85.8	8.3			2943.9		826	569.5
2016	9-Sep-16	0	63.2	8.3			2413.1		785.4	568.8
2016	9-Sep-16	1	45	8.3			2276.7		767.2	560.5
2016	9-Sep-16	2	48	8.3			2251.4		763.4	552
2016	9-Sep-16	3	38	8.3			2273.4		759.5	544
2016	9-Sep-16	4	45.9	8.3			2245.1		771.2	529.8
2016	9-Sep-16	5	38.7	8.3			2570.9		796.9	537.9
2016	9-Sep-16	6	136.8	10			2669.2		767.7	551.6
2016	9-Sep-16	7	81.4	22.8			2906.8		761.3	553.7
2016	9-Sep-16	8	156	15.6			3105.6		771.6	545.2
2016	9-Sep-16	9	118.5	12.9			3001.5		767.6	545.1
2016	9-Sep-16	10	81.8	10.2			3030.1		757.7	551.4
2016	9-Sep-16	11	105.4	9.3			3092.9		784.5	557.7
2016	9-Sep-16	12	298.3	11.7			3473.4		810	615.2
2016	9-Sep-16	13	352.5	38.8			3668		802.8	600.5
2016	9-Sep-16	14	440.3	87			3691.8		804.1	646.9
2016	9-Sep-16	15	430.4	203.2			3740.7		1050.5	1164.7
2016	9-Sep-16	16	456.9	277.6			3745.7		1201.4	1486.2
2016	9-Sep-16	17	381	345.4			3660.1		1165.5	1589.8
2016	9-Sep-16	18	496	413.4			3694.6		1160.5	1609.3
2016	9-Sep-16	19	498.1	2.9			3699.2		1295	1400
2016	9-Sep-16	20	434.9	3.4			3647		1085.4	1530.4
2016	9-Sep-16	21	434.3	25.6			3628.3		1088.1	1508.5
2016	9-Sep-16	22	371.9	43.5			3619.8		1096	1511.3
2016	9-Sep-16	23	267.2	106			3288.3		1097.3	1238.8
2016	10-Sep-16	0	217.2	805.2			2940.8		1104.2	309.2
2016	10-Sep-16	1	121.3	399.7			2554.3		1079.9	220.88
2016	10-Sep-16	2	76.2	126			2410.5		1055.3	
2016	10-Sep-16	3	66	85.4			2353.1		1051	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-Sep-16	4	67.4	73.8			2448.2		1001.3	
2016	10-Sep-16	5	64.6	54.8			2702.7		758	
2016	10-Sep-16	6	126.5	80.9			3015.5		763.3	
2016	10-Sep-16	7	221.7	123.4			3385.6		865.7	
2016	10-Sep-16	8	224.8	109.7			3298.2		1050	
2016	10-Sep-16	9	288.1	142.3			3567.1		1171.8	
2016	10-Sep-16	10	476.7	208.7			3796.8		1220.6	
2016	10-Sep-16	11	539.9	303.7			3798.2		1187.3	
2016	10-Sep-16	12	535	462			3820.1		1062.1	
2016	10-Sep-16	13	509.8	541.7			3778.6		1101.6	
2016	10-Sep-16	14	530.4	431.3			3776.6		1252.4	
2016	10-Sep-16	15	545.9	399.5			3792.2		1576	
2016	10-Sep-16	16	473.1	397.8			3713.8		1233.1	
2016	10-Sep-16	17	598.6	457.3			3735.1		1219.4	
2016	10-Sep-16	18	458.9	377.5			3649.6		1086.4	
2016	10-Sep-16	19	599.9	448.9			3710.5		1216.7	
2016	10-Sep-16	20	621	554.2			3739.9		1466.5	
2016	10-Sep-16	21	359	430.9			3698.9		1123.7	
2016	10-Sep-16	22	268.9	262.9			3561.6		1048.4	
2016	10-Sep-16	23	160.5	156.4			3494.6		1003.4	
2016	11-Sep-16	0	133.8	100.7			3072.2		908.2	
2016	11-Sep-16	1	80.8	66.9			2561.4		718.8	
2016	11-Sep-16	2	69	69.7			2570.1		463.4	
2016	11-Sep-16	3	74.8	69.6			2500.2		359.6	
2016	11-Sep-16	4	73.9	64.6			2695.9		322.8	
2016	11-Sep-16	5	70.9	60.3			2816.6		266.1	
2016	11-Sep-16	6	75.1	60.4			2882.1		29.3	
2016	11-Sep-16	7	95.2	72			3127.5		15	
2016	11-Sep-16	8	128.2	117.6			3528.6		0	
2016	11-Sep-16	9	218.6	144.8			3538.5			
2016	11-Sep-16	10	244.3	236.4			3571.5			
2016	11-Sep-16	11	414.4	366.8			3709.4			
2016	11-Sep-16	12	611.2	519			3760.3			
2016	11-Sep-16	13	723.1	703.3			3789.4			
2016	11-Sep-16	14	793.2	728.3			3796.2			
2016	11-Sep-16	15	782.7	726.7			3794.7			
2016	11-Sep-16	16	779.1	696.6			3796.8			
2016	11-Sep-16	17	722.2	588.6			3756.4			
2016	11-Sep-16	18	661.5	507.1			3717.9			
2016	11-Sep-16	19	566.2	484.5			3695.9			
2016	11-Sep-16	20	535.2	469.9			3669.1			
2016	11-Sep-16	21	420.2	293.8			3540.7			0
2016	11-Sep-16	22	290.5	186.6			3153.5			0
2016	11-Sep-16	23	185.4	121.5			2661.8			1.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-Sep-16	0	120.2	84.1			2339.7			0.8
2016	12-Sep-16	1	74	68.1			2223.3			0.5
2016	12-Sep-16	2	61.8	73.5			2215.5			0
2016	12-Sep-16	3	57.4	68.8			2204.5			0
2016	12-Sep-16	4	80.1	89.3			2584.1			0.3
2016	12-Sep-16	5	139.4	145.5			3074.8			21.4
2016	12-Sep-16	6	152	193.2			3182.3			96.7
2016	12-Sep-16	7	143.1	147.3			2837.7			231.4
2016	12-Sep-16	8	129.6	115.5			2837.4			431.4
2016	12-Sep-16	9	157.9	113.8			2939.5			477.2
2016	12-Sep-16	10	191.6	111.7			3025.4			511
2016	12-Sep-16	11	197.8	122.4			3042.7			460.2
2016	12-Sep-16	12	255.9	168.5			3204.1			503.3
2016	12-Sep-16	13	334.4	265.8			3351.4			625.6
2016	12-Sep-16	14	462.7	355.6			3583.2			569.5
2016	12-Sep-16	15	515.1	480.6			3678.7			637.9
2016	12-Sep-16	16	533.7	483			3712.1			869.4
2016	12-Sep-16	17	554.9	496.1			3676.9			639.5
2016	12-Sep-16	18	509.9	421.4			3581.2			528.5
2016	12-Sep-16	19	611	479.9			3541.6			527.6
2016	12-Sep-16	20	594.1	473.9			3431.8			527.1
2016	12-Sep-16	21	508.8	347.1			3147.4			539.3
2016	12-Sep-16	22	432.5	246.8			2680.4			546.1
2016	12-Sep-16	23	253.7	160.2			2212.3			569.3
2016	13-Sep-16	0	137.5	89.7			2098.4			514.7
2016	13-Sep-16	1	96.6	82.3			2107.5			515.3
2016	13-Sep-16	2	74.4	88.5			2142.8			507
2016	13-Sep-16	3	73.8	85.7			2162.5			503.2
2016	13-Sep-16	4	124.7	121			2226.4			484.6
2016	13-Sep-16	5	263	178.5			2476			507.6
2016	13-Sep-16	6	200.5	226.9			2881.4			511.8
2016	13-Sep-16	7	187.2	220.6			2826.5			553.3
2016	13-Sep-16	8	171.2	177.9			2868.9			572
2016	13-Sep-16	9	234	230.9			2932.3			938.8
2016	13-Sep-16	10	322.3	245.9			3168.9			1123.5
2016	13-Sep-16	11	415.6	299.6			3374.9			1273.2
2016	13-Sep-16	12	523.1	321			3356.1			1684.5
2016	13-Sep-16	13	600.1	429.9			3322.5			1849
2016	13-Sep-16	14	958.5	673.3			3383.7			1917.7
2016	13-Sep-16	15	929.2	905.8			3416.7			1851.8
2016	13-Sep-16	16	1004.4	874.2			3390.4			1572.8
2016	13-Sep-16	17	857	877.1			3424.3			1334.9
2016	13-Sep-16	18	877.4	806.7	0.023		3396			1410.6
2016	13-Sep-16	19	888.1	818.2	0.033		3359.7			1261

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	13-Sep-16	20	782.8	748.5	0.033		3279.9			894
2016	13-Sep-16	21	523.8	552.9	0.05		2972.5			713.6
2016	13-Sep-16	22	254.7	340.7	0.062		2635.9			595.8
2016	13-Sep-16	23	187.3	220.2	0.062		2211.1			546.9
2016	14-Sep-16	0	91.4	142.8	0.067		2204.1			534
2016	14-Sep-16	1	119.8	111.9	0.083		2266.6			532.4
2016	14-Sep-16	2	120.1	94.3	0.084		2377			521.3
2016	14-Sep-16	3	106.4	96.4	0.083		2309.8			534.8
2016	14-Sep-16	4	91.1	130.8	0.128		2135.7			550.5
2016	14-Sep-16	5	170.5	227.7	0.18		2134.8			553.5
2016	14-Sep-16	6	284.8	424.7	0.322		1882.4			533.1
2016	14-Sep-16	7	262.6	519.8	0.311		2057.1			535.7
2016	14-Sep-16	8	249.6	416.3	0.312		2451.8			547.2
2016	14-Sep-16	9	273.5	362.9	0.311		2534.5			553.7
2016	14-Sep-16	10	336.5	397.2	0.314		2935.6			553.5
2016	14-Sep-16	11	460.7	389.7	0.315		3359.7			990.9
2016	14-Sep-16	12	551	426.8	0.451		3471.7			1446.9
2016	14-Sep-16	13	573.4	506	0.797		3553.9			1548.9
2016	14-Sep-16	14	645.5	582.1	0.809		3565.6			1526.7
2016	14-Sep-16	15	700	668	0.809		3509.7			1474.3
2016	14-Sep-16	16	772.7	713.4	0.809		3517.2			1520
2016	14-Sep-16	17	810.8	721.3	0.769		3682.9			1476.4
2016	14-Sep-16	18	793.3	743.4	0.446		3959.7			1219.6
2016	14-Sep-16	19	883.5	857.4	0.07		4018.7			1481.5
2016	14-Sep-16	20	721.9	709.6			3931.1			1293.8
2016	14-Sep-16	21	522.9	492.6			3528.2			1035.7
2016	14-Sep-16	22	364.2	275.6			3116.9			789
2016	14-Sep-16	23	280	137.9			2634.2			693
2016	15-Sep-16	0	144.4	92.2			2460			575.4
2016	15-Sep-16	1	102.6	88.4			2444.3			571.8
2016	15-Sep-16	2	87.2	90.4			2440.9			578.2
2016	15-Sep-16	3	78	89			2472.7			573.4
2016	15-Sep-16	4	90.6	108.4			2511.2			573.8
2016	15-Sep-16	5	154.2	149.6			2526.1			559.8
2016	15-Sep-16	6	235.6	258.3			2612.5			553.2
2016	15-Sep-16	7	174.8	216.5			2561.4			544.8
2016	15-Sep-16	8	102	202.1			2681.4			547.7
2016	15-Sep-16	9	136	196.5			2897.4			556.1
2016	15-Sep-16	10	135.2	195.1			2895.4			531
2016	15-Sep-16	11	148.3	198.4			3095.7			555
2016	15-Sep-16	12	250.9	290.5			3313.8			546.7
2016	15-Sep-16	13	265.2	305.6			3107.3			527.4
2016	15-Sep-16	14	316.4	315			3258.6			536.5
2016	15-Sep-16	15	379.2	348.7			3436.1			747.5



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	15-Sep-16	16	401.2	363.2			3372.2			717.5
2016	15-Sep-16	17	435.9	340.8			3368.9			677.6
2016	15-Sep-16	18	403	302.3			3182			644.5
2016	15-Sep-16	19	431.5	313.5			3150.3			618
2016	15-Sep-16	20	242.3	268.6			2671.6			617.8
2016	15-Sep-16	21	174.6	177.9			2427.6			615.5
2016	15-Sep-16	22	85.1	159.5			2306.2			575.4
2016	15-Sep-16	23	96.8	84.411			2168.5			598.4
2016	16-Sep-16	0	73.6				2152.2			542.2
2016	16-Sep-16	1	73				2164.1			537.4
2016	16-Sep-16	2	52.8				2169.2			535.7
2016	16-Sep-16	3	73.9				2180.6			427.2
2016	16-Sep-16	4	65				2389			228.5
2016	16-Sep-16	5	92.6				2487.2			93.2
2016	16-Sep-16	6	82.7				2468.2			1.767
2016	16-Sep-16	7	103.1				2543.4			
2016	16-Sep-16	8	204.4				2839.7			
2016	16-Sep-16	9	178.3				2742.2			
2016	16-Sep-16	10	274.6				3000.1			
2016	16-Sep-16	11	395				3218.6			
2016	16-Sep-16	12	398.8				3248.3			
2016	16-Sep-16	13	584.7				3212.8			
2016	16-Sep-16	14	702.7				3385.1			
2016	16-Sep-16	15	770.2				3468.3			
2016	16-Sep-16	16	709.4				3450.2			
2016	16-Sep-16	17	643.3				3442.7			
2016	16-Sep-16	18	713.1				3460.5			
2016	16-Sep-16	19	717.6				3455.9			
2016	16-Sep-16	20	611.1				3423.6			
2016	16-Sep-16	21	552.2				3307.9			
2016	16-Sep-16	22	362				3059.2			
2016	16-Sep-16	23	295.2				2801.1			
2016	17-Sep-16	0	220				2686.3			
2016	17-Sep-16	1	190.1				2660			
2016	17-Sep-16	2	122.4				2604.5			
2016	17-Sep-16	3	115.1				2424.1			
2016	17-Sep-16	4	78.5				2348.6			
2016	17-Sep-16	5	97.9				2588.2			
2016	17-Sep-16	6	114.6				3019			
2016	17-Sep-16	7	186				3365.5			
2016	17-Sep-16	8	203.4				3442.4			
2016	17-Sep-16	9	547.5				3452.7			
2016	17-Sep-16	10	660.6				3641.1			
2016	17-Sep-16	11	715.6				3658.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-Sep-16	12	683.9				3700.3			
2016	17-Sep-16	13	740.3				3650.2			
2016	17-Sep-16	14	818.8				3717.3			
2016	17-Sep-16	15	824.7				3712.9			
2016	17-Sep-16	16	793.8				3671.6			
2016	17-Sep-16	17	810.6				3691.3			
2016	17-Sep-16	18	774.6				3680.6			
2016	17-Sep-16	19	764.4				3775.9			
2016	17-Sep-16	20	718.9				3443.2			
2016	17-Sep-16	21	411.7				3005.8			
2016	17-Sep-16	22	372.5				2916.6			
2016	17-Sep-16	23	257.2				2887.5			
2016	18-Sep-16	0	164.7				2710.1			
2016	18-Sep-16	1	138.1				2393.9			
2016	18-Sep-16	2	88				2151.2			
2016	18-Sep-16	3	120.1				2071.6			
2016	18-Sep-16	4	87.9				2056			
2016	18-Sep-16	5	108.4				2088.9			
2016	18-Sep-16	6	83.8				2193.4			
2016	18-Sep-16	7	77.2				2345.7			
2016	18-Sep-16	8	153.2				2679.1			
2016	18-Sep-16	9	174.5				2873.4			
2016	18-Sep-16	10	277.1				2999.6			
2016	18-Sep-16	11	559.3				3204.7			
2016	18-Sep-16	12	826.3				3387		0	
2016	18-Sep-16	13	681.7				3351.3		0	
2016	18-Sep-16	14	709.6		0.03		3384.7		0	
2016	18-Sep-16	15	778.3		0.033		3406.3		0	
2016	18-Sep-16	16	818.8		0.033		3419.1		0	0
2016	18-Sep-16	17	799.1		0.033		3449.8		0	0
2016	18-Sep-16	18	796.3		0.033		3403.2		0	1.2
2016	18-Sep-16	19	789.9		0.058		3392.3			0.6
2016	18-Sep-16	20	807.3		0.061		3351.3			0.4
2016	18-Sep-16	21	752.3		0.061		3336.4			0.2
2016	18-Sep-16	22	655.7		0.061		3190.1			0
2016	18-Sep-16	23	499.7		0.061		2784.9			0
2016	19-Sep-16	0	332.1		0.061		2288.7			0
2016	19-Sep-16	1	304.1		0.084		2024.5			18.1
2016	19-Sep-16	2	199.2		0.195		2008.6			114.6
2016	19-Sep-16	3	177		0.263		2027.7			205.1
2016	19-Sep-16	4	246.9		0.316		2133.5			270.2
2016	19-Sep-16	5	483.1		0.408		2522.3			557.2
2016	19-Sep-16	6	761.3		0.463		2883.2		0	828.5
2016	19-Sep-16	7	753.2		0.318		3388.9		0	1023.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	19-Sep-16	8	814.7		0.311		3474		3.5	1170.2
2016	19-Sep-16	9	849		0.311		3470		28.6	1032.4
2016	19-Sep-16	10	888.1		0.324		3557.4		65.8	1235
2016	19-Sep-16	11	924.2		0.445		3591.3		71.9	1345.6
2016	19-Sep-16	12	959.1		0.546		3654.3		72.8	1355
2016	19-Sep-16	13	798.9		0.359		3589.1		73.3	1381.9
2016	19-Sep-16	14	710.5		0.414		3484.3		70.7	1270
2016	19-Sep-16	15	817.9		0.586		3467.3		73.1	1299.5
2016	19-Sep-16	16	912.8		0.488		3449.6		73	1198.2
2016	19-Sep-16	17	967.3		0.685		3494.8		73.8	1318.6
2016	19-Sep-16	18	890.5		0.645		3459.2		71.9	1262.1
2016	19-Sep-16	19	981.2		0.368		3498.5		74.5	1144.6
2016	19-Sep-16	20	914.5		0.339		3527.7		73	1265.8
2016	19-Sep-16	21	726.8		0.312		3346.9		85.2	1021.9
2016	19-Sep-16	22	530.4		0.311		2879.8		104.7	716.8
2016	19-Sep-16	23	440.3		0.31		2395.7		123.4	506.4
2016	20-Sep-16	0	316.2		0.31		2272.2		126.4	478.4
2016	20-Sep-16	1	279.2		0.311		2318.1		120.8	448.8
2016	20-Sep-16	2	174.3		0.311		2195.9		122.4	468.2
2016	20-Sep-16	3	151.3		0.311		2220.4		124.4	464.5
2016	20-Sep-16	4	154		0.31		2464.9		118.5	472.5
2016	20-Sep-16	5	397.9		0.324		2514.2		148	550.6
2016	20-Sep-16	6	849.8		0.313		2927.4		132.6	846.5
2016	20-Sep-16	7	929.2		0.312		3274.9		280.4	727.8
2016	20-Sep-16	8	721.3		0.311		3451.1		571.2	549.7
2016	20-Sep-16	9	567.9		0.311		3546.3		768.8	489.6
2016	20-Sep-16	10	685.9		0.31		3594.6		757.9	525.3
2016	20-Sep-16	11	792.8		0.311		3624.6		769	577.6
2016	20-Sep-16	12	851.1		0.323		3603.5		846.1	736.6
2016	20-Sep-16	13	777.3		0.326		3508.9		790	682.4
2016	20-Sep-16	14	811.2		0.325		3572.9		803.6	545.2
2016	20-Sep-16	15	897		0.539		3607.7		883.5	886.7
2016	20-Sep-16	16	754.4		0.481		3516.8		731.3	872.2
2016	20-Sep-16	17	895.7		0.31		3521		728.1	806.5
2016	20-Sep-16	18	676.8		0.316		3502.3		731.2	588.2
2016	20-Sep-16	19	732.7		0.315		3484.7		683.5	510.9
2016	20-Sep-16	20	754.3		0.313		3515		690.2	548.1
2016	20-Sep-16	21	491.6		0.313		3380.3		646.1	475.4
2016	20-Sep-16	22	256.1		0.314		3195.7		631.1	450.2
2016	20-Sep-16	23	179.7		0.314		2787		616.4	438.5
2016	21-Sep-16	0	121.1		0.313		2366		634.2	449.9
2016	21-Sep-16	1	108.1		0.313		2130.7		596.9	461.8
2016	21-Sep-16	2	96.3		0.314		2139.8		599.1	449.4
2016	21-Sep-16	3	99.5		0.315		2148.2		668.5	466.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-Sep-16	4	118.2		0.427		2445.2		818.3	545.9
2016	21-Sep-16	5	164.9		0.753		3216.4		1361.6	826.9
2016	21-Sep-16	6	154.3		0.806		3349.2		1489.3	1186.3
2016	21-Sep-16	7	111.9		0.8		3360.8		1172.8	1072.7
2016	21-Sep-16	8	132		0.715		3363.2		961.5	736.7
2016	21-Sep-16	9	139.5		0.381		3203.9		968.2	445.2
2016	21-Sep-16	10	151.9		0.339		3414.2		999.4	528.3
2016	21-Sep-16	11	242.6		0.315		3442.1		977.1	492.1
2016	21-Sep-16	12	352.5		0.315		3464.1		987.2	417.5
2016	21-Sep-16	13	289.5		0.315		3312.6		982.8	417.9
2016	21-Sep-16	14	330		0.314		3239.2		994.7	427.3
2016	21-Sep-16	15	542.6		0.314		3353.9		998.6	439.6
2016	21-Sep-16	16	641.2		0.314		3325.6		989	444.6
2016	21-Sep-16	17	753.9		0.317		3331.2		997.9	549.6
2016	21-Sep-16	18	802.3		0.328		3316.9		997.9	558.2
2016	21-Sep-16	19	827.3		0.409		3267.9		1127.5	711
2016	21-Sep-16	20	689.5		0.315		3225.4		924.2	438.9
2016	21-Sep-16	21	452.6		0.31		3005		738.4	457.7
2016	21-Sep-16	22	248.8		0.283		2689.9		697	490.8
2016	21-Sep-16	23	207.1		0.003		2332.1		732.9	510.1
2016	22-Sep-16	0	127.8				2192.1		739.9	485.9
2016	22-Sep-16	1	100.1				2359.3		723.9	501.9
2016	22-Sep-16	2	103.8				2494.2		697.2	494.7
2016	22-Sep-16	3	106.1				2404.4		689	475
2016	22-Sep-16	4	195				2386.6		691.2	445.8
2016	22-Sep-16	5	318.8				2737.9		748.8	467.6
2016	22-Sep-16	6	317				3034.8		729.2	497.9
2016	22-Sep-16	7	324.9				3140.1		745	479
2016	22-Sep-16	8	663.2				3360.3		746.2	494.5
2016	22-Sep-16	9	750.9				3489.9		722	488.5
2016	22-Sep-16	10	792.6				3572.4		822.5	644.3
2016	22-Sep-16	11	813.2				3625.4		897.3	937.4
2016	22-Sep-16	12	776.9				3713.1		1059.8	834.6
2016	22-Sep-16	13	394.7				3769.7		1269.9	1082.9
2016	22-Sep-16	14	559				3769.2		1459.2	1300.2
2016	22-Sep-16	15	844.1				3773.4		1464	1306
2016	22-Sep-16	16	859.9				3727.5		1507.3	1273.9
2016	22-Sep-16	17	898.3				3747.5		1446.4	1382.6
2016	22-Sep-16	18	930.2				3696.4		1219.9	1475.1
2016	22-Sep-16	19	961.1				3664.8		1305.9	1436.3
2016	22-Sep-16	20	1003.5				3665		1263	1056.5
2016	22-Sep-16	21	801.9				3578.7		1231.5	776.7
2016	22-Sep-16	22	515.6		0.01		3496		1174.4	544.5
2016	22-Sep-16	23	265.1		0.032		3157		1056.9	553.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-Sep-16	0	164.7		0.053		2853.3		770.9	544.7
2016	23-Sep-16	1	142		0.06		2781		810.1	535.3
2016	23-Sep-16	2	118.9		0.059		2678.9		802.6	530.7
2016	23-Sep-16	3	113.1		0.037		2615.5		839.7	525.7
2016	23-Sep-16	4	144		0.052		2843.5		758.2	550.7
2016	23-Sep-16	5	228.4				3100.8		768.8	876.5
2016	23-Sep-16	6	375.9				3460.1		766	1182.4
2016	23-Sep-16	7	594.5		0.002		3563.2		762.9	1431.7
2016	23-Sep-16	8	715		0.056		3581.5		761	1431.3
2016	23-Sep-16	9	810.4		0.079		3692.9		757.3	1420.6
2016	23-Sep-16	10	885.4		0.079		3836.5		769.7	1400.9
2016	23-Sep-16	11	877.2		0.079		3840.8		712.8	1382.1
2016	23-Sep-16	12	955		0.124		3931.4		781.8	1369.1
2016	23-Sep-16	13	829.3		0.252		3992.4		945.2	1332.5
2016	23-Sep-16	14	922.2		0.332		3753.8		1466.5	1372.8
2016	23-Sep-16	15	876.2		0.392		3780.4		1482.5	1474.3
2016	23-Sep-16	16	887.6		0.32		3873.7		1265.7	1487.3
2016	23-Sep-16	17	867.5		0.374		3806		1220.6	1436.2
2016	23-Sep-16	18	859.8		0.318		3789.2		1165.9	1436.1
2016	23-Sep-16	19	900		0.31		3855.2		1060.9	1177.8
2016	23-Sep-16	20	875.8		0.311		3798.7		903.4	749
2016	23-Sep-16	21	858		0.306		3427		657.3	749.2
2016	23-Sep-16	22	683.9		0.311		3366.4		625.3	664.8
2016	23-Sep-16	23	454.4		0.311		3026		315.5	629.8
2016	24-Sep-16	0	294.3		0.306		2501.1		96.304	507.7
2016	24-Sep-16	1	251.6		0.306		2342.1			519
2016	24-Sep-16	2	182.2		0.306		2298.8			506.2
2016	24-Sep-16	3	158.8		0.306		2318.2			579.8
2016	24-Sep-16	4	100.5		0.348		2412.3			938.3
2016	24-Sep-16	5	99.3		0.328		2348.8			1122.8
2016	24-Sep-16	6	165.6		0.438		2705			1381.4
2016	24-Sep-16	7	233		0.7		3059.6			1389.1
2016	24-Sep-16	8	415.6		0.799		3562			1411.1
2016	24-Sep-16	9	615		0.789		3673.3			1415
2016	24-Sep-16	10	753.2		0.798		3763.5			1386.2
2016	24-Sep-16	11	776.2		0.777		3639.9			1213.4
2016	24-Sep-16	12	852.2		0.758		3556.7			951
2016	24-Sep-16	13	821.2		0.784		3741.3			806.6
2016	24-Sep-16	14	985.7		0.761		3692.2			820.6
2016	24-Sep-16	15	972.2		0.795		3466.1			825.4
2016	24-Sep-16	16	958.2		0.791		3268.2			920.2
2016	24-Sep-16	17	810.5		0.77		3132			1251.8
2016	24-Sep-16	18	811.7		0.788		3434			1201.4
2016	24-Sep-16	19	767.1		0.795		3609.6			1160.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	24-Sep-16	20	635.8		0.791		3523.8			1154.6
2016	24-Sep-16	21	666.5		0.812		3211.1			582.9
2016	24-Sep-16	22	534.7		0.805		3187.3			223.1
2016	24-Sep-16	23	487.9		0.742		3140.5			146.3
2016	25-Sep-16	0	410.6		0.77		3103.5			1.87
2016	25-Sep-16	1	325.7		0.68		2875.1			
2016	25-Sep-16	2	206.9		0.364		2462.8			
2016	25-Sep-16	3	183		0.311		2390.6			
2016	25-Sep-16	4	119.5		0.311		2322.5			
2016	25-Sep-16	5	152.3		0.352		2236.9			
2016	25-Sep-16	6	132.2		0.335		2269.9			
2016	25-Sep-16	7	187.2		0.408		2248.1			
2016	25-Sep-16	8	223		0.691		2092.3			
2016	25-Sep-16	9	211.3		0.656		2223.4			
2016	25-Sep-16	10	174.2		0.727		2576			
2016	25-Sep-16	11	182.4		0.801		3048.1			
2016	25-Sep-16	12	233.9		0.801		3360.5			
2016	25-Sep-16	13	302.7		0.79		3324.7			
2016	25-Sep-16	14	415.7		0.782		3462.4			
2016	25-Sep-16	15	607.2		0.786		3317.4			
2016	25-Sep-16	16	841.5		0.805		3181			
2016	25-Sep-16	17	641.6		0.801		2951.3			
2016	25-Sep-16	18	547.7		0.772		2993.7			
2016	25-Sep-16	19	609.7		0.811		3230.9			
2016	25-Sep-16	20	474		0.8		3110.2			
2016	25-Sep-16	21	452.6		0.595		2736.5			
2016	25-Sep-16	22	323.6		0.558		2482.9			
2016	25-Sep-16	23	280.3		0.666		2440			
2016	26-Sep-16	0	232.7		0.795		2572.6			
2016	26-Sep-16	1	263.2		0.804		2647.8			
2016	26-Sep-16	2	238.3		0.803		2644.5			
2016	26-Sep-16	3	272.6		0.801		2630.7			
2016	26-Sep-16	4	258.8		0.802		2633.6			
2016	26-Sep-16	5	423.4		0.802		2703.5			
2016	26-Sep-16	6	677.1		0.754		3063.5			
2016	26-Sep-16	7	939.6		0.462		2956.1			
2016	26-Sep-16	8	1029.4		0.307		2968.7			
2016	26-Sep-16	9	1042.1		0.308		2965			
2016	26-Sep-16	10	1054.3		0.316		2975.9			
2016	26-Sep-16	11	1044.9		0.382		2948.1			
2016	26-Sep-16	12	1000.7		0.618		2933.4			
2016	26-Sep-16	13	968.4		0.811		3079			
2016	26-Sep-16	14	857.4		0.813		3127.3			
2016	26-Sep-16	15	664.5		0.81		2997.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	26-Sep-16	16	518.7		0.809		2270			
2016	26-Sep-16	17	524.8		0.81		2288.1			
2016	26-Sep-16	18	498.8		0.809		2285			
2016	26-Sep-16	19	486.7		0.809		2367.7			
2016	26-Sep-16	20	497.4		0.808		2802.2			
2016	26-Sep-16	21	466.7		0.809		2907.3			
2016	26-Sep-16	22	424.1		0.714		2801.6			
2016	26-Sep-16	23	387		0.15		2587.6			
2016	27-Sep-16	0	332.8		0.001		2400.4			
2016	27-Sep-16	1	293.8				1973			
2016	27-Sep-16	2	238.4				1953.5			
2016	27-Sep-16	3	205.9				2008.2			
2016	27-Sep-16	4	187.6				2353.3			
2016	27-Sep-16	5	218.8				2629.6			
2016	27-Sep-16	6	337.5				2773			
2016	27-Sep-16	7	280.1				2817.8			
2016	27-Sep-16	8	513.1				2807.6			
2016	27-Sep-16	9	518.4				2805.1			
2016	27-Sep-16	10	476.6				2676.4			
2016	27-Sep-16	11	537.2				2914			0
2016	27-Sep-16	12	559.5				2942.9			0
2016	27-Sep-16	13	753.8				2960.4			0.32
2016	27-Sep-16	14	814.5				2915.5			0
2016	27-Sep-16	15	958.6				2934.6			0
2016	27-Sep-16	16	897.9				2872.6			0
2016	27-Sep-16	17	586.2				2850.9			0
2016	27-Sep-16	18	502.9				2816.2			0
2016	27-Sep-16	19	835.5				2814.5			1.1
2016	27-Sep-16	20	784.6				2847.1			0.1
2016	27-Sep-16	21	522.6				2873.2			0
2016	27-Sep-16	22	388.5				2819.5			0
2016	27-Sep-16	23	291.3				2713			0
2016	28-Sep-16	0	199				2648.3			0
2016	28-Sep-16	1	129.4				2657.3			4.2
2016	28-Sep-16	2	92.6				2436.3			84.7
2016	28-Sep-16	3	101.4				2241.4			200.6
2016	28-Sep-16	4	119.9				2595.8			283.9
2016	28-Sep-16	5	320.7				2705.1			359
2016	28-Sep-16	6	563.1				2737.9			461.6
2016	28-Sep-16	7	658.3				2913.6			438.5
2016	28-Sep-16	8	505.4				3106.3			486.5
2016	28-Sep-16	9	489.5				2969.3			482.2
2016	28-Sep-16	10	431.2				2912.8			474.1
2016	28-Sep-16	11	614.5		0.023		3074.6			466.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-Sep-16	12	436.4		0.032		3080.1			463.2
2016	28-Sep-16	13	478.2		0.032		3139.8			516
2016	28-Sep-16	14	565		0.032		3135.8			548.8
2016	28-Sep-16	15	605.5		0.032		3115.4			574.9
2016	28-Sep-16	16	620.5		0.052		3142.9			576
2016	28-Sep-16	17	973.2		0.06		3150.1			580.2
2016	28-Sep-16	18	1013.8		0.06		3146.7			574.5
2016	28-Sep-16	19	1029.5		0.06		3139.4			610.1
2016	28-Sep-16	20	919		0.06		3074.5			616.2
2016	28-Sep-16	21	673.5		0.06		1886.7			579.3
2016	28-Sep-16	22	516.1		0.06		1240.2			587.6
2016	28-Sep-16	23	358.2		0.06		89.88			600.8
2016	29-Sep-16	0	224.7		0.06					594.7
2016	29-Sep-16	1	203.5		0.06					616.7
2016	29-Sep-16	2	117.5		0.06					612.8
2016	29-Sep-16	3	147.1		0.06					611.7
2016	29-Sep-16	4	243		0.06					607.5
2016	29-Sep-16	5	369.6		0.06					610.2
2016	29-Sep-16	6	450.1		0.06					609.1
2016	29-Sep-16	7	617.5		0.06					607.1
2016	29-Sep-16	8	707.1		0.06					610.8
2016	29-Sep-16	9	871.8		0.06					571.6
2016	29-Sep-16	10	564.6		0.06					587.7
2016	29-Sep-16	11	515.6		0.004					607
2016	29-Sep-16	12	838.9							603.8
2016	29-Sep-16	13	1064.9							604.6
2016	29-Sep-16	14	1039.8							623
2016	29-Sep-16	15	1049.3							645.8
2016	29-Sep-16	16	959.1							654.4
2016	29-Sep-16	17	802.2							666.8
2016	29-Sep-16	18	769.8							707.2
2016	29-Sep-16	19	1012.3							795.2
2016	29-Sep-16	20	1003.2		0.035					755.3
2016	29-Sep-16	21	862.1		0.06					825
2016	29-Sep-16	22	422.1		0.06					840
2016	29-Sep-16	23	322.7		0.063					828.2
2016	30-Sep-16	0	221.8		0.079					790.2
2016	30-Sep-16	1	198.5		0.075					799.1
2016	30-Sep-16	2	132.1		0.077					795.5
2016	30-Sep-16	3	184.9		0.191					730.6
2016	30-Sep-16	4	242.8		0.301					700
2016	30-Sep-16	5	393.4		0.456					726.4
2016	30-Sep-16	6	367.9		0.759					758.5
2016	30-Sep-16	7	405.6		0.803					757.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	30-Sep-16	8	404.4		0.8					769.1
2016	30-Sep-16	9	396.7		0.8					766
2016	30-Sep-16	10	425.1		0.8					844.1
2016	30-Sep-16	11	665.1		0.801					726.4
2016	30-Sep-16	12	675.9		0.801					715.7
2016	30-Sep-16	13	833.4		0.801					729.6
2016	30-Sep-16	14	826.7		0.801					705
2016	30-Sep-16	15	896.3		0.8					698.4
2016	30-Sep-16	16	646.7		0.8					690.2
2016	30-Sep-16	17	711.5		0.8					671.1
2016	30-Sep-16	18	476.1		0.794					668.4
2016	30-Sep-16	19	389.3		0.798					692.9
2016	30-Sep-16	20	137.9		0.798					742.7
2016	30-Sep-16	21	58.2		0.798					631
2016	30-Sep-16	22	44.1		0.793					645
2016	30-Sep-16	23	6.882		0.551					623.9
2016	1-Oct-16	0			0.318					624.9
2016	1-Oct-16	1			0.307					623.4
2016	1-Oct-16	2			0.306					627.6
2016	1-Oct-16	3			0.306					635.6
2016	1-Oct-16	4			0.305					653.6
2016	1-Oct-16	5			0.305					672.4
2016	1-Oct-16	6			0.304					702
2016	1-Oct-16	7			0.304					634.1
2016	1-Oct-16	8			0.304					687.9
2016	1-Oct-16	9			0.335					679.2
2016	1-Oct-16	10			0.306					698.3
2016	1-Oct-16	11			0.343					793.5
2016	1-Oct-16	12			0.318					1004.1
2016	1-Oct-16	13			0.309					1040.9
2016	1-Oct-16	14			0.359					974.4
2016	1-Oct-16	15			0.318					919.7
2016	1-Oct-16	16			0.353					817.1
2016	1-Oct-16	17			0.332					702
2016	1-Oct-16	18			0.38					569.1
2016	1-Oct-16	19			0.509					105.688
2016	1-Oct-16	20			0.324					
2016	1-Oct-16	21			0.314		0			
2016	1-Oct-16	22			0.313		0			
2016	1-Oct-16	23			0.313		0			
2016	2-Oct-16	0			0.313		0			
2016	2-Oct-16	1			0.313		0			
2016	2-Oct-16	2			0.314		13.5			
2016	2-Oct-16	3			0.313		58.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	2-Oct-16	4			0.313		116.1			
2016	2-Oct-16	5			0.314		246.7			
2016	2-Oct-16	6			0.315		388.5			
2016	2-Oct-16	7			0.307		812.7			
2016	2-Oct-16	8			0.313		1080.4			
2016	2-Oct-16	9			0.307		1123.3			
2016	2-Oct-16	10			0.306		2122.2			
2016	2-Oct-16	11			0.306		2393.1			
2016	2-Oct-16	12			0.306		2853			
2016	2-Oct-16	13			0.316		3088.9			
2016	2-Oct-16	14			0.321		3024.4			
2016	2-Oct-16	15			0.322		2997			
2016	2-Oct-16	16			0.354		3083.9			
2016	2-Oct-16	17			0.314		3165			
2016	2-Oct-16	18			0.308		3144.7			
2016	2-Oct-16	19			0.306		3187			
2016	2-Oct-16	20			0.312		3173.1			
2016	2-Oct-16	21			0.306		3185.5			
2016	2-Oct-16	22			0.306		3230.2			
2016	2-Oct-16	23			0.308		3169.9			
2016	3-Oct-16	0			0.309		3216.5			
2016	3-Oct-16	1			0.309		3208.1			
2016	3-Oct-16	2			0.309		3209.3			
2016	3-Oct-16	3			0.504		3249.2			
2016	3-Oct-16	4			0.767		3062.4			
2016	3-Oct-16	5			0.797		3047			
2016	3-Oct-16	6			0.795		3152.9			
2016	3-Oct-16	7			0.767		3229.4			
2016	3-Oct-16	8			0.7		3335			
2016	3-Oct-16	9			0.769		3277.9			
2016	3-Oct-16	10			0.761		2792.3			
2016	3-Oct-16	11			0.798		3116.7			
2016	3-Oct-16	12			0.761		3299.4			
2016	3-Oct-16	13			0.693		3273.6			
2016	3-Oct-16	14			0.798		3287.6			
2016	3-Oct-16	15			0.802		3279.8			
2016	3-Oct-16	16			0.801		3289.2			
2016	3-Oct-16	17			0.713		3304.1			
2016	3-Oct-16	18			0.712		3309.2			
2016	3-Oct-16	19			0.796		3279.3			
2016	3-Oct-16	20			0.736		3263.1			
2016	3-Oct-16	21			0.421		3268.3			
2016	3-Oct-16	22			0.31		3252.4			
2016	3-Oct-16	23			0.31		3157.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	4-Oct-16	0			0.31		2776.2			
2016	4-Oct-16	1			0.31		2770.1			
2016	4-Oct-16	2			0.31		2782.9			
2016	4-Oct-16	3			0.371		2814.6			
2016	4-Oct-16	4			0.689		3100			
2016	4-Oct-16	5			0.804		3221.1			
2016	4-Oct-16	6			0.735		3219.8			
2016	4-Oct-16	7			0.606		3211.9			
2016	4-Oct-16	8			0.427		3207.3			
2016	4-Oct-16	9			0.38		3199.5			
2016	4-Oct-16	10			0.394		3234.8			
2016	4-Oct-16	11			0.396		3215			
2016	4-Oct-16	12			0.515		3253.9			
2016	4-Oct-16	13			0.701		3257.2			
2016	4-Oct-16	14			0.782		3269.2			
2016	4-Oct-16	15			0.788	0	3271.2			
2016	4-Oct-16	16			0.793	0	3250.2			
2016	4-Oct-16	17			0.632	0	3250.9			
2016	4-Oct-16	18			0.401	0	3266.9			
2016	4-Oct-16	19			0.367	0	3240.4			
2016	4-Oct-16	20			0.399	0	3263.8			
2016	4-Oct-16	21			0.316	0	3264.6			
2016	4-Oct-16	22			0.31	0	3248.2			
2016	4-Oct-16	23			0.309	0	3242.7			
2016	5-Oct-16	0			0.308	0	3251.5			
2016	5-Oct-16	1			0.308	0	3258.3			
2016	5-Oct-16	2			0.308	0	3252.9			
2016	5-Oct-16	3			0.334	0	3251.4			
2016	5-Oct-16	4			0.599	0	3258.2			
2016	5-Oct-16	5			0.797	0	3245.4			
2016	5-Oct-16	6			0.804	0	3242.9			
2016	5-Oct-16	7			0.765	7.7	3214.1			
2016	5-Oct-16	8			0.634	159.2	3217.2			
2016	5-Oct-16	9			0.65	531	3265.6			
2016	5-Oct-16	10			0.723	614.5	3260.9			
2016	5-Oct-16	11			0.76	752.2	3258.1			
2016	5-Oct-16	12			0.651	939.6	3293.6			
2016	5-Oct-16	13			0.767	831.8	3302.2			0
2016	5-Oct-16	14			0.696	961.7	3273.4			0
2016	5-Oct-16	15			0.754	849.2	3272.9			0.4
2016	5-Oct-16	16			0.615	624.1	3252.3			0
2016	5-Oct-16	17			0.4	620.8	3271.5			0
2016	5-Oct-16	18			0.336	670.9	3272.6			0
2016	5-Oct-16	19			0.477	777	3273.6			0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	5-Oct-16	20			0.556	782.6	3263.4			0
2016	5-Oct-16	21			0.377	703.8	3262.1			0
2016	5-Oct-16	22			0.315	631.4	3264.8			0
2016	5-Oct-16	23			0.311	639	3249.9			0
2016	6-Oct-16	0			0.31	733.5	3268.3			25.3
2016	6-Oct-16	1			0.31	746.4	3206.5			125.8
2016	6-Oct-16	2			0.309	896.9	3101.3			372.2
2016	6-Oct-16	3			0.392	829.6	3074.1			516.6
2016	6-Oct-16	4			0.727	1186.1	3267.1			518.9
2016	6-Oct-16	5			0.809	1340	3297.8			517.5
2016	6-Oct-16	6			0.802	1635.5	3319.4			725.2
2016	6-Oct-16	7			0.715	1481.6	3289			1114.7
2016	6-Oct-16	8			0.648	1342.9	3250.3			1293.9
2016	6-Oct-16	9			0.621	1225.2	3257.3			1315.5
2016	6-Oct-16	10			0.624	1180.9	3263.4			1339.1
2016	6-Oct-16	11			0.722	1164.1	3263.8			1513.4
2016	6-Oct-16	12			0.637	1169.9	3269			1331.8
2016	6-Oct-16	13			0.562	1151.5	3268.1			1105.5
2016	6-Oct-16	14			0.424	864.1	3263.9			967.9
2016	6-Oct-16	15			0.42	819.9	3247.7			742.1
2016	6-Oct-16	16			0.37	712.6	3276.2			1011
2016	6-Oct-16	17			0.373	768	3272.6			1077
2016	6-Oct-16	18			0.328	729.5	3266.1			829.8
2016	6-Oct-16	19			0.428	779.8	3263.6			1067.4
2016	6-Oct-16	20			0.536	784.8	3253.3			1198.7
2016	6-Oct-16	21			0.36	734.9	3272.6			1213.3
2016	6-Oct-16	22			0.313	715.3	3208.1			1167.8
2016	6-Oct-16	23			0.311	725.7	3198			915.9
2016	7-Oct-16	0			0.309	727.7	3220.2			741.1
2016	7-Oct-16	1			0.308	727.5	3126.3			643.1
2016	7-Oct-16	2			0.307	731.5	2889.4			645.3
2016	7-Oct-16	3			0.417	788	2475.4			648.1
2016	7-Oct-16	4			0.751	1407.9	1950			1124.8
2016	7-Oct-16	5			0.809	1511.5	1928.6			1659.5
2016	7-Oct-16	6			0.683	1491.1	1926			1714.3
2016	7-Oct-16	7			0.709	1464.4	1979.1			1659.8
2016	7-Oct-16	8			0.786	1489.3	2389.5			1607.7
2016	7-Oct-16	9			0.783	1486.8	2531.7			1584.2
2016	7-Oct-16	10			0.792	1500.6	2391.1			1535.2
2016	7-Oct-16	11			0.732	1519	2386.5			1547.4
2016	7-Oct-16	12			0.705	1522.5	2338.5			1522.9
2016	7-Oct-16	13			0.748	1534.8	2619.9			1551.1
2016	7-Oct-16	14			0.619	1548.7	2994.7			1549.1
2016	7-Oct-16	15			0.667	1560.7	3200.6			1496.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	7-Oct-16	16			0.545	1577.7	3208			1445.1
2016	7-Oct-16	17			0.435	1590.3	3180.1			1443.6
2016	7-Oct-16	18			0.577	1561.8	3201.5			1410.5
2016	7-Oct-16	19			0.486	1531.2	3218.1			1452.7
2016	7-Oct-16	20			0.473	1531.7	3184.3			1328.1
2016	7-Oct-16	21			0.355	1533.5	3179.9			1094.5
2016	7-Oct-16	22			0.306	1523.3	3058.2			937.8
2016	7-Oct-16	23			0.069	1161.3	2754.9			770.9
2016	8-Oct-16	0				221.85	2529.2			686.9
2016	8-Oct-16	1					2206.6			348.8
2016	8-Oct-16	2					1996.6			166.7
2016	8-Oct-16	3					2175.1			41.824
2016	8-Oct-16	4					2025			
2016	8-Oct-16	5					1927.2			
2016	8-Oct-16	6					2037.5			
2016	8-Oct-16	7					2518.1			
2016	8-Oct-16	8					2866.7			
2016	8-Oct-16	9					3105			
2016	8-Oct-16	10					3130.9			
2016	8-Oct-16	11					3008.4			
2016	8-Oct-16	12					2878.9			
2016	8-Oct-16	13					2849.1			
2016	8-Oct-16	14					2892.7			
2016	8-Oct-16	15					2707			
2016	8-Oct-16	16					2862.7			
2016	8-Oct-16	17					2939.4			
2016	8-Oct-16	18					2954.5			
2016	8-Oct-16	19					2916.4			
2016	8-Oct-16	20					2875			
2016	8-Oct-16	21					2851			
2016	8-Oct-16	22					2876			
2016	8-Oct-16	23			0.022		2814.5			
2016	9-Oct-16	0			0.033		2505.5			
2016	9-Oct-16	1			0.042		2053.8			
2016	9-Oct-16	2			0.061		2230.5			
2016	9-Oct-16	3			0.061		2258.7			
2016	9-Oct-16	4			0.079		2521.2			
2016	9-Oct-16	5			0.08		2646.4			
2016	9-Oct-16	6			0.161		2951.5			
2016	9-Oct-16	7			0.309		2948.2			
2016	9-Oct-16	8			0.423		2847.6			
2016	9-Oct-16	9			0.551		2714.6			
2016	9-Oct-16	10			0.548		2775.8			
2016	9-Oct-16	11			0.536		2912.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	9-Oct-16	12			0.504		2874.1			
2016	9-Oct-16	13			0.547		2991			
2016	9-Oct-16	14			0.54		2993.6			
2016	9-Oct-16	15			0.538		3005.6			0
2016	9-Oct-16	16			0.537		3006.6			0
2016	9-Oct-16	17			0.519		3014.3			0.6
2016	9-Oct-16	18			0.519		3002.1			0
2016	9-Oct-16	19			0.547		3073.4			0
2016	9-Oct-16	20			0.471		3055.1			0
2016	9-Oct-16	21			0.352		2892.5			0
2016	9-Oct-16	22			0.471		2919			0
2016	9-Oct-16	23			0.516		3005.2			0
2016	10-Oct-16	0			0.536		2978.5			0
2016	10-Oct-16	1			0.535		2986.7			0
2016	10-Oct-16	2			0.524		2918.3			0
2016	10-Oct-16	3			0.746		2989.8			0.4
2016	10-Oct-16	4			0.81		2999.9			112.7
2016	10-Oct-16	5			0.806		2991.4			333.1
2016	10-Oct-16	6			0.794		2989.5			714.4
2016	10-Oct-16	7			0.583		3035.6			818.6
2016	10-Oct-16	8			0.594		3058.4			1085
2016	10-Oct-16	9			0.801		3037.7			1333.3
2016	10-Oct-16	10			0.811		3083.6			1391.6
2016	10-Oct-16	11			0.804		3052.6			1421.9
2016	10-Oct-16	12			0.8		3080.3			1242
2016	10-Oct-16	13			0.685		3081.7			1451.7
2016	10-Oct-16	14			0.783		3046.6			1439.3
2016	10-Oct-16	15			0.793		2852			1386.9
2016	10-Oct-16	16			0.629		2637.9			1142.1
2016	10-Oct-16	17		0	0.537		2645.3			763.4
2016	10-Oct-16	18		0	0.538		2596.8			628.2
2016	10-Oct-16	19		0	0.542		2540.1			702.5
2016	10-Oct-16	20		0	0.546		2486.8			1016
2016	10-Oct-16	21		0	0.54		2495.2			700.3
2016	10-Oct-16	22		0	0.532		2434.2			690.2
2016	10-Oct-16	23		0	0.35		2356.5			684.7
2016	11-Oct-16	0		0	0.313		2170.1			695.5
2016	11-Oct-16	1		0	0.315		1950.6			701.1
2016	11-Oct-16	2		0	0.316		1701.1			707.1
2016	11-Oct-16	3		0	0.521		1837.5			1091.3
2016	11-Oct-16	4		0	0.796		2043.8			1653.4
2016	11-Oct-16	5		0	0.811		2065.4			1806.1
2016	11-Oct-16	6		0	0.81		2123.3			1845.8
2016	11-Oct-16	7		0	0.81		2130.5			1839.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	11-Oct-16	8		0	0.811		2096.8			1891.1
2016	11-Oct-16	9		0	0.812		2066.2			1928.5
2016	11-Oct-16	10		0	0.812		2005.1			1932.1
2016	11-Oct-16	11		0	0.804		2037.9			1910.2
2016	11-Oct-16	12		0	0.793		2013.6			1889.5
2016	11-Oct-16	13		0	0.682		1950.7			1885.3
2016	11-Oct-16	14		0	0.783		1957.1			1856.3
2016	11-Oct-16	15		0	0.808		1964.2			1847.6
2016	11-Oct-16	16		0	0.735		1952.2			1832
2016	11-Oct-16	17		0	0.413		1669.9			1473.7
2016	11-Oct-16	18		0	0.335		1539.1			1555
2016	11-Oct-16	19		0	0.337		1555.2			1540.8
2016	11-Oct-16	20		0	0.342		1480.1			1655.5
2016	11-Oct-16	21		0	0.316		1247.8			1651.3
2016	11-Oct-16	22		0	0.315		1176.3			1657
2016	11-Oct-16	23		0	0.314		1086.7			1103.1
2016	12-Oct-16	0		2.8	0.316		1061.5			729.1
2016	12-Oct-16	1		15.1	0.316		1067.2			556
2016	12-Oct-16	2		46.8	0.316		1078.6			166.1
2016	12-Oct-16	3		52.7	0.477		1329.8			9.72
2016	12-Oct-16	4		65.7	0.779		1652.3			
2016	12-Oct-16	5		70.3	0.81		1884.5			
2016	12-Oct-16	6		73.5	0.806		1945.2			
2016	12-Oct-16	7		238.4	0.807		1968.2			
2016	12-Oct-16	8		334.5	0.81		1967.6			
2016	12-Oct-16	9		316.6	0.815		2006.1			
2016	12-Oct-16	10		361.2	0.747		2117.2			
2016	12-Oct-16	11		643.2	0.598		1992			
2016	12-Oct-16	12		749.6	0.649		2212.6			
2016	12-Oct-16	13		167.7	0.385		2420.6			
2016	12-Oct-16	14		267.8	0.32		2284.2			
2016	12-Oct-16	15		777.3	0.319		2196.9			
2016	12-Oct-16	16		924.2	0.319		1887.2			
2016	12-Oct-16	17		1192.9	0.462		2298.1			
2016	12-Oct-16	18		1445.1	0.356		2616			
2016	12-Oct-16	19		1492.7	0.395		2712.5			
2016	12-Oct-16	20		1501.3	0.417		2915.4			
2016	12-Oct-16	21		1496.5	0.623		3132.4			
2016	12-Oct-16	22		1460	0.818		3262.7			
2016	12-Oct-16	23		1512	0.722		3309.9			
2016	13-Oct-16	0		1421	0.391		3197.8			
2016	13-Oct-16	1		1523	0.317		2947.9			
2016	13-Oct-16	2		2049.8	0.317		2644.8			
2016	13-Oct-16	3		2107.8	0.442		2945.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	13-Oct-16	4		2047.4	0.762		3397.3			
2016	13-Oct-16	5		1652.1	0.799		3643.1			
2016	13-Oct-16	6		1340.4	0.294		3547.6			
2016	13-Oct-16	7		1232.6			3341.4			
2016	13-Oct-16	8		1596.5			3521.1			
2016	13-Oct-16	9		1869			3506.8			
2016	13-Oct-16	10		2020.4			3401.9			
2016	13-Oct-16	11		2053.8			3432.4			
2016	13-Oct-16	12		2091.7			3390.9			
2016	13-Oct-16	13		1960.8			3254			
2016	13-Oct-16	14		1822.9			3093.3			
2016	13-Oct-16	15		1586.1			2910.5			
2016	13-Oct-16	16		1846.4			3000.6			
2016	13-Oct-16	17		2062			3293			
2016	13-Oct-16	18		2174.8			3387.7			
2016	13-Oct-16	19		2156.5			3424			
2016	13-Oct-16	20		2144.6			3424.8			
2016	13-Oct-16	21		1871.2			3301.2			
2016	13-Oct-16	22		1675.7			3120.7			
2016	13-Oct-16	23		1328.2			2787.4			
2016	14-Oct-16	0		963.9			2563.5			
2016	14-Oct-16	1		825.5			2233.8			
2016	14-Oct-16	2		785.6			2124.4			
2016	14-Oct-16	3		980.3			2099			
2016	14-Oct-16	4		1389.2			2131.4			
2016	14-Oct-16	5		1984.4			2577.1			
2016	14-Oct-16	6		1950.5			2988.4			
2016	14-Oct-16	7		1275.6			2744.7			
2016	14-Oct-16	8		1481.2			2957			
2016	14-Oct-16	9		2018			3192.3			
2016	14-Oct-16	10		1957.8			3322.3			
2016	14-Oct-16	11		1988.7			3325.6			
2016	14-Oct-16	12		1028.6			3324.6			
2016	14-Oct-16	13		266			3403.7			
2016	14-Oct-16	14		264.2			3422.7			
2016	14-Oct-16	15		581.2			3409.3			
2016	14-Oct-16	16		1016.7			3366.3			
2016	14-Oct-16	17		1614.2			3292.4			
2016	14-Oct-16	18		2183.1			3359.2			
2016	14-Oct-16	19		2176.4			3424.1			
2016	14-Oct-16	20		2085.1			3311.2			
2016	14-Oct-16	21		1554			3031.3			
2016	14-Oct-16	22		1179.7			2531.7			
2016	14-Oct-16	23		784.6			2181.3			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	15-Oct-16	0		455.6			2060.2			
2016	15-Oct-16	1		267.8			2048.5			
2016	15-Oct-16	2		249			2045.7			
2016	15-Oct-16	3		256.9			2040.4			
2016	15-Oct-16	4		293.5			2000.9			
2016	15-Oct-16	5		288.3			2067.2			
2016	15-Oct-16	6		314.2			2077.6			
2016	15-Oct-16	7		649.3			1993.9			
2016	15-Oct-16	8		1054.6			2184.7			
2016	15-Oct-16	9		1672.5			2276.9			
2016	15-Oct-16	10		1339.5			2210.5			
2016	15-Oct-16	11		931.6			2283.7			
2016	15-Oct-16	12		649.6			2218.4			
2016	15-Oct-16	13		366.4			2228.8			
2016	15-Oct-16	14		259.5			2211.8			
2016	15-Oct-16	15		300			2290.6			
2016	15-Oct-16	16		344.4			2233.2			
2016	15-Oct-16	17		374.5			2355.6			
2016	15-Oct-16	18		279.2			2393.9			
2016	15-Oct-16	19		340.5			2539.1			
2016	15-Oct-16	20		268.2			2371.2			
2016	15-Oct-16	21		243.7			2302.9			
2016	15-Oct-16	22		190.7			2187.2			
2016	15-Oct-16	23		149.4			1924.7			
2016	16-Oct-16	0		151.6			1911.1			
2016	16-Oct-16	1		148.2			1929.9			
2016	16-Oct-16	2		143			1928.2			
2016	16-Oct-16	3		144.6			1913.9			
2016	16-Oct-16	4		146.5			1909.4			
2016	16-Oct-16	5		146.4			1907.6			
2016	16-Oct-16	6		201.9			1911.3			
2016	16-Oct-16	7		369.1			1894.7			
2016	16-Oct-16	8		972.3			1896.5			
2016	16-Oct-16	9		1128.7			1894.2			
2016	16-Oct-16	10		989.9			1890.9			
2016	16-Oct-16	11		816.8			1933.9			
2016	16-Oct-16	12		1053.2			2157.1			
2016	16-Oct-16	13		1076.8			2118.2			
2016	16-Oct-16	14		1043.9			2004.2			
2016	16-Oct-16	15		698.9			2053.3			
2016	16-Oct-16	16		438			1982.6			
2016	16-Oct-16	17		296.2			1970			
2016	16-Oct-16	18		265.1			2106.4			
2016	16-Oct-16	19		300.1			2107.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	16-Oct-16	20		243.2			2069.9			
2016	16-Oct-16	21		232.2			1924.8			
2016	16-Oct-16	22		158.5			1925.7			
2016	16-Oct-16	23		123.8			1905.4			
2016	17-Oct-16	0		131.1			1916.6			
2016	17-Oct-16	1		136.4			1934.8			
2016	17-Oct-16	2		140.6			1916.9			
2016	17-Oct-16	3		143.2	0.013		1917			
2016	17-Oct-16	4		212.4	0.033		2305.7			
2016	17-Oct-16	5		240.9	0.033		3032.1			
2016	17-Oct-16	6		493.8	0.033		3199.5			
2016	17-Oct-16	7		559.8	0.033		3029.1			
2016	17-Oct-16	8		518.1	0.037		2792.2			
2016	17-Oct-16	9		508.1	0.061		2463.6			
2016	17-Oct-16	10	0	562.7	0.074		2546.9			
2016	17-Oct-16	11	0	926.3	0.08		2831.7			
2016	17-Oct-16	12	0	872	0.078		2877.9			
2016	17-Oct-16	13	0	885.7	0.062		2772.4			
2016	17-Oct-16	14	0	1116.6	0.069		2984.6			
2016	17-Oct-16	15	0	1213.1	0.077		3083.3			
2016	17-Oct-16	16	0	1188.8	0.045		3056.5			
2016	17-Oct-16	17	0	852.8	0.057		2789.2			
2016	17-Oct-16	18	0	1312.4	0.053		2996.1			
2016	17-Oct-16	19	0	1060.4	0.041		2970.4			
2016	17-Oct-16	20	0	607.4	0.061		2538.1			
2016	17-Oct-16	21	0	432.5	0.061		2310.7			
2016	17-Oct-16	22	2.4	350.3	0.048		2088.2			
2016	17-Oct-16	23	44.7	318.4	0.059		1845.2			
2016	18-Oct-16	0	67	268	0.049		1869.3			
2016	18-Oct-16	1	84.2	187	0.053		1809.1			
2016	18-Oct-16	2	82.8	174.9	0.052		1775.6			
2016	18-Oct-16	3	54.3	174.2	0.057		1809.1			
2016	18-Oct-16	4	54.6	206	0.061		2073.1			
2016	18-Oct-16	5	57.2	204.1	0.062		1670.58			
2016	18-Oct-16	6	65.4	235.5	0.079					
2016	18-Oct-16	7	52.1	210.7	0.079					
2016	18-Oct-16	8	56.2	154.3	0.08		371.413			
2016	18-Oct-16	9	83	145.4	0.082		464.2			
2016	18-Oct-16	10	199.9	139	0.176		473.2			
2016	18-Oct-16	11	173.2	137.5	0.246		532.9			
2016	18-Oct-16	12	292.2	142.4	0.333		1052.9			
2016	18-Oct-16	13	344.5	136.9	0.32		1713			
2016	18-Oct-16	14	218.5	179.5	0.308		1964.2			
2016	18-Oct-16	15	168.6	235.8	0.028		2342.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	18-Oct-16	16	191.3	241.5	0.001		2491.8			
2016	18-Oct-16	17	180.3	273.8			2681.7			
2016	18-Oct-16	18	214.5	283.4			2810.3			
2016	18-Oct-16	19	169.7	257.9			2956			
2016	18-Oct-16	20	158.8	180.3			2983.1			
2016	18-Oct-16	21	172.5	170.9			3074.1			
2016	18-Oct-16	22	122.5	165.8			3162.3			
2016	18-Oct-16	23	117	156.2			3245.3			
2016	19-Oct-16	0	114.8	154			3249.6			
2016	19-Oct-16	1	118.2	156.1			3267.5			
2016	19-Oct-16	2	135.3	184.5			3216.3			
2016	19-Oct-16	3	700.4	382.4			3196.5			
2016	19-Oct-16	4	881.8	529.5			2849.1			
2016	19-Oct-16	5	954.4	930.8			2513.8			
2016	19-Oct-16	6	762.1	1037			2273.4			
2016	19-Oct-16	7	456	945.5			2058.4		42.011	
2016	19-Oct-16	8	362.1	689.1			1954.6		0	
2016	19-Oct-16	9	391.7	684.9			2165.1		0	
2016	19-Oct-16	10	396.4	652.9			2187.4		45	
2016	19-Oct-16	11	341.8	657.3			2152.8		54.6	
2016	19-Oct-16	12	439.4	650.8			2571		68.5	
2016	19-Oct-16	13	451	643.9			2853.7		79.8	
2016	19-Oct-16	14	510.6	688.2			3191.5		109.6	
2016	19-Oct-16	15	792.2	789.8			3288		129.9	
2016	19-Oct-16	16	775.4	788			3324.3		108.7	
2016	19-Oct-16	17	662.7	637.6			2995.9		102.4	
2016	19-Oct-16	18	431.4	565.7			2877.6		107	
2016	19-Oct-16	19	650.6	594.3			2757.5		125.3	
2016	19-Oct-16	20	370.1	602.8			2423.2		114.4	
2016	19-Oct-16	21	347.8	597.4			2303		119.8	
2016	19-Oct-16	22	248.6	564.4			2391.5		132.4	
2016	19-Oct-16	23	250.8	594			2117.9		134.1	
2016	20-Oct-16	0	152.3	691.7			2239.4		134.9	
2016	20-Oct-16	1	126.1	721.1			2187.7		136	
2016	20-Oct-16	2	107.9	687.1			2193.5		252.9	
2016	20-Oct-16	3	115.4	859.4			2547.5		301.9	
2016	20-Oct-16	4	105.8	1132.1			3097.5		397.1	
2016	20-Oct-16	5	117.7	1191.9			3410.4		577.3	
2016	20-Oct-16	6	134.3	1170.7			3510.9		1019.2	
2016	20-Oct-16	7	122	1042.3			2844.9		1873.6	
2016	20-Oct-16	8	106.8	648.7			2561.9		2238.9	
2016	20-Oct-16	9	177.9	642.1			2807.8		2322.1	
2016	20-Oct-16	10	228.7	505.9			2664.2		2193.6	
2016	20-Oct-16	11	412.7	540.9			2753.3		2201.2	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	20-Oct-16	12	633.7	698.6			3162.5		2275.6	
2016	20-Oct-16	13	694.9	869.3			3342.7		2224.4	
2016	20-Oct-16	14	654.2	727			3267.3		2218.7	
2016	20-Oct-16	15	589.3	702.9	0.019		3039.8		2239.4	
2016	20-Oct-16	16	511.3	646	0.033		3059.5		2152	
2016	20-Oct-16	17	496	567.4	0.033		2988		2129.1	
2016	20-Oct-16	18	422.3	560.4	0.033		3172.6		2122.9	
2016	20-Oct-16	19	445.9	456.8	0.064		2763.7		1576.4	
2016	20-Oct-16	20	400.9	464.1	0.074		2467		1056.4	
2016	20-Oct-16	21	454.7	356.3	0.079		2422.2		1023.1	
2016	20-Oct-16	22	402.5	269.5	0.071		2391.5		927.1	
2016	20-Oct-16	23	466.9	190.7	0.061		2105.9		380.6	
2016	21-Oct-16	0	407.5	106.9	0.061		436.914			
2016	21-Oct-16	1	442.7	31.025	0.061					
2016	21-Oct-16	2	391.7		0.061					
2016	21-Oct-16	3	374.9		0.061					
2016	21-Oct-16	4	282.8		0.063					
2016	21-Oct-16	5	401.6		0.063					
2016	21-Oct-16	6	786.3		0.069					
2016	21-Oct-16	7	851.7		0.063					
2016	21-Oct-16	8	553.6		0.064					
2016	21-Oct-16	9	737.9		0.024					
2016	21-Oct-16	10	1986.3							
2016	21-Oct-16	11	2219.5							
2016	21-Oct-16	12	2085.6							
2016	21-Oct-16	13	639.2							
2016	21-Oct-16	14	419.9							
2016	21-Oct-16	15	317.6							
2016	21-Oct-16	16	184.5							
2016	21-Oct-16	17	262.5							
2016	21-Oct-16	18	226.9							
2016	21-Oct-16	19	244.6							
2016	21-Oct-16	20	165.4							
2016	21-Oct-16	21	142.4							
2016	21-Oct-16	22	86.8							
2016	21-Oct-16	23	97							
2016	22-Oct-16	0	80.7							
2016	22-Oct-16	1	100.5							
2016	22-Oct-16	2	85.2							
2016	22-Oct-16	3	97.1							
2016	22-Oct-16	4	80.6							
2016	22-Oct-16	5	100.4							
2016	22-Oct-16	6	94.3							
2016	22-Oct-16	7	83.9							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	22-Oct-16	8	96.9							
2016	22-Oct-16	9	76.1							
2016	22-Oct-16	10	69.4							
2016	22-Oct-16	11	80.7							
2016	22-Oct-16	12	67.6							
2016	22-Oct-16	13	71.9							
2016	22-Oct-16	14	66							
2016	22-Oct-16	15	90.7							
2016	22-Oct-16	16	74.6							
2016	22-Oct-16	17	97.3							
2016	22-Oct-16	18	122.3							
2016	22-Oct-16	19	145							
2016	22-Oct-16	20	109.3							
2016	22-Oct-16	21	93							
2016	22-Oct-16	22	80.8							
2016	22-Oct-16	23	95.2							
2016	23-Oct-16	0	83.3							
2016	23-Oct-16	1	97							
2016	23-Oct-16	2	81.8							
2016	23-Oct-16	3	92.3							
2016	23-Oct-16	4	71.9							
2016	23-Oct-16	5	81							
2016	23-Oct-16	6	86							
2016	23-Oct-16	7	70.6							
2016	23-Oct-16	8	63.8							
2016	23-Oct-16	9	77.9							
2016	23-Oct-16	10	64.5							
2016	23-Oct-16	11	83.2							
2016	23-Oct-16	12	71.4							
2016	23-Oct-16	13	91.7							
2016	23-Oct-16	14	81.2							
2016	23-Oct-16	15	98.9							
2016	23-Oct-16	16	74.8							
2016	23-Oct-16	17	92.1							
2016	23-Oct-16	18	94.9							
2016	23-Oct-16	19	99.9							
2016	23-Oct-16	20	80.3							
2016	23-Oct-16	21	76.4							
2016	23-Oct-16	22	62.7							
2016	23-Oct-16	23	77.8							
2016	24-Oct-16	0	64.6							
2016	24-Oct-16	1	77.5							
2016	24-Oct-16	2	63.7							
2016	24-Oct-16	3	79.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	24-Oct-16	4	140.8							
2016	24-Oct-16	5	223.5							
2016	24-Oct-16	6	249.8							
2016	24-Oct-16	7	231							
2016	24-Oct-16	8	198.1							
2016	24-Oct-16	9	292.6							
2016	24-Oct-16	10	304.8							
2016	24-Oct-16	11	228.4							
2016	24-Oct-16	12	261.9							
2016	24-Oct-16	13	355							
2016	24-Oct-16	14	294.6							
2016	24-Oct-16	15	462.2							
2016	24-Oct-16	16	861.6							
2016	24-Oct-16	17	819.4							
2016	24-Oct-16	18	870.7							
2016	24-Oct-16	19	895.4							
2016	24-Oct-16	20	897							
2016	24-Oct-16	21	923.5							
2016	24-Oct-16	22	703.9							
2016	24-Oct-16	23	504							
2016	25-Oct-16	0	267.4							
2016	25-Oct-16	1	184.6							
2016	25-Oct-16	2	107							
2016	25-Oct-16	3	158.9							
2016	25-Oct-16	4	328.8							
2016	25-Oct-16	5	729.2							
2016	25-Oct-16	6	1340.3							
2016	25-Oct-16	7	2052.8							
2016	25-Oct-16	8	1924.3							
2016	25-Oct-16	9	1904.2							
2016	25-Oct-16	10	1985.5							
2016	25-Oct-16	11	2313.5							
2016	25-Oct-16	12	2480.8							
2016	25-Oct-16	13	2885.4		0.017					
2016	25-Oct-16	14	2106.2		0.033					
2016	25-Oct-16	15	940.4		0.036					
2016	25-Oct-16	16	800.1		0.062					
2016	25-Oct-16	17	860.7		0.062					
2016	25-Oct-16	18	743.3		0.071					
2016	25-Oct-16	19	871.2		0.081					
2016	25-Oct-16	20	774		0.081					
2016	25-Oct-16	21	774.5		0.068					
2016	25-Oct-16	22	386.1		0.062					
2016	25-Oct-16	23	282.4		0.062		0			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	26-Oct-16	0	138		0.07		0			
2016	26-Oct-16	1	93.5		0.07		0			
2016	26-Oct-16	2	73.2		0.069		0			
2016	26-Oct-16	3	177.9		0.07		21.6			
2016	26-Oct-16	4	257.8		0.078		137.9			
2016	26-Oct-16	5	738.4		0.068		390.6			
2016	26-Oct-16	6	744.4		0.07		775.4			
2016	26-Oct-16	7	717		0.062		1477.1			
2016	26-Oct-16	8	443		0.062		1850.4			
2016	26-Oct-16	9	344.9		0.062		2220.2			
2016	26-Oct-16	10	191.1		0.062		2323.5			
2016	26-Oct-16	11	154.1		0.062		2319.5			
2016	26-Oct-16	12	87.2		0.062		2212.2			
2016	26-Oct-16	13	87.7		0.062		2251			
2016	26-Oct-16	14	72.3		0.062		2270.1			
2016	26-Oct-16	15	83.1		0.062		2211.4			
2016	26-Oct-16	16	67.8		0.073		2243			
2016	26-Oct-16	17	95		0.062		2295.6			
2016	26-Oct-16	18	128.8		0.062		2515.8			
2016	26-Oct-16	19	145.9		0.062		2490.9			
2016	26-Oct-16	20	149.1		0.077		3073.6			
2016	26-Oct-16	21	112		0.062		3373			
2016	26-Oct-16	22	79.8		0.062		2916.9			
2016	26-Oct-16	23	93.4		0.062		2477.2			
2016	27-Oct-16	0	72		0.075		2264.5			
2016	27-Oct-16	1	97.3		0.066		2256.1			
2016	27-Oct-16	2	85.7		0.065		2252.7			
2016	27-Oct-16	3	171		0.081		2580.6			
2016	27-Oct-16	4	253.7		0.081		2992.2			
2016	27-Oct-16	5	762.6		0.07		3376.6			
2016	27-Oct-16	6	1013.6		0.062		3353.4			
2016	27-Oct-16	7	742.2		0.079		3127.4			
2016	27-Oct-16	8	974.3		0.081		3060.4			
2016	27-Oct-16	9	559.8		0.081		2809.7			
2016	27-Oct-16	10	746.5		0.069		2750.8			
2016	27-Oct-16	11	602.4		0.081		2704.6			
2016	27-Oct-16	12	753.8		0.081		2718.8			
2016	27-Oct-16	13	520.8		0.081		2649.7			
2016	27-Oct-16	14	356.1		0.067		2437.4			
2016	27-Oct-16	15	459.5		0.074		2427.7			
2016	27-Oct-16	16	389.6		0.08		2486.1			
2016	27-Oct-16	17	444.1		0.08		2467.3			
2016	27-Oct-16	18	742		0.08		2802.1			
2016	27-Oct-16	19	1067.8		0.07		3133.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	27-Oct-16	20	1046.4		0.061		3278.5			
2016	27-Oct-16	21	1072.3		0.08		2993.6			
2016	27-Oct-16	22	1003.3		0.08		2621.6			
2016	27-Oct-16	23	857.1		0.08		2097.2			
2016	28-Oct-16	0	538.5		0.075		1677.8			
2016	28-Oct-16	1	415.9		0.077		257.12			
2016	28-Oct-16	2	315.4		0.081					
2016	28-Oct-16	3	457.9		0.081					
2016	28-Oct-16	4	987.4		0.081					
2016	28-Oct-16	5	1008		0.081					
2016	28-Oct-16	6	1040.1		0.081					
2016	28-Oct-16	7	990.8		0.081					
2016	28-Oct-16	8	843.3		0.081					
2016	28-Oct-16	9	545.1		0.081					
2016	28-Oct-16	10	452.2		0.081					
2016	28-Oct-16	11	419.6		0.081					
2016	28-Oct-16	12	230.5		0.081					
2016	28-Oct-16	13	175.2		0.081					
2016	28-Oct-16	14	329.7		0.023					
2016	28-Oct-16	15	660.5							
2016	28-Oct-16	16	925.4							
2016	28-Oct-16	17	927.3							
2016	28-Oct-16	18	901.1							
2016	28-Oct-16	19	905.3							
2016	28-Oct-16	20	797.7							
2016	28-Oct-16	21	637.5							
2016	28-Oct-16	22	473.7							
2016	28-Oct-16	23	396.2							
2016	29-Oct-16	0	272.1							
2016	29-Oct-16	1	212.9							
2016	29-Oct-16	2	137.6							
2016	29-Oct-16	3	135.1							
2016	29-Oct-16	4	109.9							
2016	29-Oct-16	5	128.4							
2016	29-Oct-16	6	132.2							
2016	29-Oct-16	7	121.3							
2016	29-Oct-16	8	112							
2016	29-Oct-16	9	168.6							
2016	29-Oct-16	10	251.8							
2016	29-Oct-16	11	447.7							
2016	29-Oct-16	12	557.9							
2016	29-Oct-16	13	490.8							
2016	29-Oct-16	14	810.3							
2016	29-Oct-16	15	954.1							



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	29-Oct-16	16	957.9							
2016	29-Oct-16	17	991.6							
2016	29-Oct-16	18	934.7							
2016	29-Oct-16	19	743.4							
2016	29-Oct-16	20	597.9							
2016	29-Oct-16	21	710.3							
2016	29-Oct-16	22	790.3							
2016	29-Oct-16	23	604.8							
2016	30-Oct-16	0	590.4							
2016	30-Oct-16	1	410.4							
2016	30-Oct-16	2	350.9							
2016	30-Oct-16	3	249.8							
2016	30-Oct-16	4	242.6							
2016	30-Oct-16	5	123.3							
2016	30-Oct-16	6	143							
2016	30-Oct-16	7	183.8							
2016	30-Oct-16	8	324.9							
2016	30-Oct-16	9	564.4							
2016	30-Oct-16	10	528.7							
2016	30-Oct-16	11	504.3							
2016	30-Oct-16	12	489.8							
2016	30-Oct-16	13	583.7							
2016	30-Oct-16	14	898.4							
2016	30-Oct-16	15	871.4							
2016	30-Oct-16	16	983.3							
2016	30-Oct-16	17	1058.4							
2016	30-Oct-16	18	1041.2							
2016	30-Oct-16	19	1013.1							
2016	30-Oct-16	20	1023.2							
2016	30-Oct-16	21	976							
2016	30-Oct-16	22	762.3							
2016	30-Oct-16	23	779.1							
2016	31-Oct-16	0	491.7					0.073		
2016	31-Oct-16	1	457					0.073		
2016	31-Oct-16	2	303.9					0.073		
2016	31-Oct-16	3	251.7					0.073		
2016	31-Oct-16	4	283.8					0.073		
2016	31-Oct-16	5	590.5					0.073		
2016	31-Oct-16	6	895.4					0.073		
2016	31-Oct-16	7	835.8					0.073		
2016	31-Oct-16	8	944.3					57.7		
2016	31-Oct-16	9	868.8					600.9		
2016	31-Oct-16	10	912					842		
2016	31-Oct-16	11	883.2					2209.2		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	31-Oct-16	12	754.1					2821.7		
2016	31-Oct-16	13	878.6					1994.6		
2016	31-Oct-16	14	824.2		0.002			892.5		
2016	31-Oct-16	15	889.9		0.033			725.2		
2016	31-Oct-16	16	742.8		0.033			745.6		
2016	31-Oct-16	17	657.7		0.032			753.3		
2016	31-Oct-16	18	549.2		0.034			754.7		
2016	31-Oct-16	19	667.2		0.061			337.4		
2016	31-Oct-16	20	627.4		0.061					
2016	31-Oct-16	21	546.5		0.061					
2016	31-Oct-16	22	349		0.079					
2016	31-Oct-16	23	285.7		0.08					
2016	1-Nov-16	0	187.4		0.064					
2016	1-Nov-16	1	173.8		0.076					
2016	1-Nov-16	2	105.7		0.08					
2016	1-Nov-16	3	121		0.181					
2016	1-Nov-16	4	161.9		0.309					
2016	1-Nov-16	5	445.9		0.311					
2016	1-Nov-16	6	521.6		0.31					
2016	1-Nov-16	7	330.9		0.309					
2016	1-Nov-16	8	422		0.32					
2016	1-Nov-16	9	650.1		0.351					
2016	1-Nov-16	10	550.6		0.318					
2016	1-Nov-16	11	665.9		0.349					
2016	1-Nov-16	12	671.3		0.339					
2016	1-Nov-16	13	777		0.327					
2016	1-Nov-16	14	567.6		0.319					
2016	1-Nov-16	15	865.6		0.352					
2016	1-Nov-16	16	691.5		0.371					
2016	1-Nov-16	17	585.5		0.328					
2016	1-Nov-16	18	802.4		0.355					
2016	1-Nov-16	19	960.9		0.408					
2016	1-Nov-16	20	617.2		0.237					
2016	1-Nov-16	21	482.3							
2016	1-Nov-16	22	404.3							
2016	1-Nov-16	23	240.6							
2016	2-Nov-16	0	120.5							
2016	2-Nov-16	1	124.7							
2016	2-Nov-16	2	102.6							
2016	2-Nov-16	3	123.7							
2016	2-Nov-16	4	219.8							
2016	2-Nov-16	5	687.5							
2016	2-Nov-16	6	853.3							
2016	2-Nov-16	7	899.8							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	2-Nov-16	8	724.1							
2016	2-Nov-16	9	527.7							
2016	2-Nov-16	10	581							
2016	2-Nov-16	11	528.5							
2016	2-Nov-16	12	466.7							
2016	2-Nov-16	13	754							
2016	2-Nov-16	14	597.8							
2016	2-Nov-16	15	844.3							
2016	2-Nov-16	16	641							
2016	2-Nov-16	17	467.7							
2016	2-Nov-16	18	389.5							
2016	2-Nov-16	19	407.7							
2016	2-Nov-16	20	288.7							
2016	2-Nov-16	21	221.5							
2016	2-Nov-16	22	244.5							
2016	2-Nov-16	23	170.7							
2016	3-Nov-16	0	122.8							
2016	3-Nov-16	1	298.9							
2016	3-Nov-16	2	301.9							
2016	3-Nov-16	3	332.9							
2016	3-Nov-16	4	310.8							
2016	3-Nov-16	5	352.6							
2016	3-Nov-16	6	367.4							
2016	3-Nov-16	7	345.1							
2016	3-Nov-16	8	349.1							
2016	3-Nov-16	9	350.9							
2016	3-Nov-16	10	330.6							
2016	3-Nov-16	11	345.1							
2016	3-Nov-16	12	419.6							
2016	3-Nov-16	13	403							
2016	3-Nov-16	14	467.8							
2016	3-Nov-16	15	528.3							
2016	3-Nov-16	16	439							
2016	3-Nov-16	17	474.9							
2016	3-Nov-16	18	457.8							
2016	3-Nov-16	19	771							
2016	3-Nov-16	20	800.8							
2016	3-Nov-16	21	443							
2016	3-Nov-16	22	348.6							
2016	3-Nov-16	23	264.6							
2016	4-Nov-16	0	131.6							
2016	4-Nov-16	1	140.3							
2016	4-Nov-16	2	118.5							
2016	4-Nov-16	3	136.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	4-Nov-16	4	209							
2016	4-Nov-16	5	330.2							
2016	4-Nov-16	6	339.5							
2016	4-Nov-16	7	456.3							
2016	4-Nov-16	8	454.5							
2016	4-Nov-16	9	469.9							
2016	4-Nov-16	10	640.1							
2016	4-Nov-16	11	663.3							
2016	4-Nov-16	12	585.4							
2016	4-Nov-16	13	512.3							
2016	4-Nov-16	14	423.6							
2016	4-Nov-16	15	467							
2016	4-Nov-16	16	508.6							
2016	4-Nov-16	17	508.4							
2016	4-Nov-16	18	316.2							
2016	4-Nov-16	19	283.5							
2016	4-Nov-16	20	246.8							
2016	4-Nov-16	21	268							
2016	4-Nov-16	22	170.6							
2016	4-Nov-16	23	140.5							
2016	5-Nov-16	0	103.3							
2016	5-Nov-16	1	119.2							
2016	5-Nov-16	2	101.5							
2016	5-Nov-16	3	117.7							
2016	5-Nov-16	4	100.1							
2016	5-Nov-16	5	117.1							
2016	5-Nov-16	6	123							
2016	5-Nov-16	7	103.8							
2016	5-Nov-16	8	101.7							
2016	5-Nov-16	9	99.2							
2016	5-Nov-16	10	94.1							
2016	5-Nov-16	11	105.7							
2016	5-Nov-16	12	98.6							
2016	5-Nov-16	13	101.2							
2016	5-Nov-16	14	90.3							
2016	5-Nov-16	15	93.4							
2016	5-Nov-16	16	85.5							
2016	5-Nov-16	17	95.5							
2016	5-Nov-16	18	87.9							
2016	5-Nov-16	19	97.1							
2016	5-Nov-16	20	86.1							
2016	5-Nov-16	21	88.8							
2016	5-Nov-16	22	85.3							
2016	5-Nov-16	23	95.1							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	6-Nov-16	0	88.1							
2016	6-Nov-16	1	94.3							
2016	6-Nov-16	2	86.5							
2016	6-Nov-16	3	93.5							
2016	6-Nov-16	4	86.5							
2016	6-Nov-16	5	96.6							
2016	6-Nov-16	6	93.5							
2016	6-Nov-16	7	88.1							
2016	6-Nov-16	8	87.1							
2016	6-Nov-16	9	96							
2016	6-Nov-16	10	86.4							
2016	6-Nov-16	11	92.2							
2016	6-Nov-16	12	93.9							
2016	6-Nov-16	13	105.8							
2016	6-Nov-16	14	99.4							
2016	6-Nov-16	15	103.8							
2016	6-Nov-16	16	100.1							
2016	6-Nov-16	17	118.1							
2016	6-Nov-16	18	111.5							
2016	6-Nov-16	19	130.6							
2016	6-Nov-16	20	133.6							
2016	6-Nov-16	21	148.7							
2016	6-Nov-16	22	144.6							
2016	6-Nov-16	23	147							
2016	7-Nov-16	0	145.4							
2016	7-Nov-16	1	154.4							
2016	7-Nov-16	2	143.5							
2016	7-Nov-16	3	145.2							
2016	7-Nov-16	4	154.6							
2016	7-Nov-16	5	190.2							
2016	7-Nov-16	6	923.1							
2016	7-Nov-16	7	1343.6							
2016	7-Nov-16	8	1782							
2016	7-Nov-16	9	892.6							
2016	7-Nov-16	10	938							
2016	7-Nov-16	11	1529.7							
2016	7-Nov-16	12	1378.1							
2016	7-Nov-16	13	1375.7							
2016	7-Nov-16	14	904.6							
2016	7-Nov-16	15	843.9							
2016	7-Nov-16	16	758.2							
2016	7-Nov-16	17	846.2							
2016	7-Nov-16	18	590.2							
2016	7-Nov-16	19	385.1							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	7-Nov-16	20	221.8							
2016	7-Nov-16	21	177.1							
2016	7-Nov-16	22	154.5							
2016	7-Nov-16	23	181.5							
2016	8-Nov-16	0	165.8							
2016	8-Nov-16	1	185							
2016	8-Nov-16	2	177.8							
2016	8-Nov-16	3	199.9							
2016	8-Nov-16	4	178.7							
2016	8-Nov-16	5	286.6							
2016	8-Nov-16	6	1044.8							
2016	8-Nov-16	7	1463							
2016	8-Nov-16	8	1514.4							
2016	8-Nov-16	9	811.3							
2016	8-Nov-16	10	710.3							
2016	8-Nov-16	11	784.7							
2016	8-Nov-16	12	848.6							
2016	8-Nov-16	13	862.1							
2016	8-Nov-16	14	813.8							
2016	8-Nov-16	15	666.7							
2016	8-Nov-16	16	425.7							
2016	8-Nov-16	17	376.4							
2016	8-Nov-16	18	244.2							
2016	8-Nov-16	19	240.6							
2016	8-Nov-16	20	218.5							
2016	8-Nov-16	21	234.6							
2016	8-Nov-16	22	216.7							
2016	8-Nov-16	23	202.1							
2016	9-Nov-16	0	170.1							
2016	9-Nov-16	1	176.4							
2016	9-Nov-16	2	164.8							
2016	9-Nov-16	3	180.3							
2016	9-Nov-16	4	162.9							
2016	9-Nov-16	5	208.4							
2016	9-Nov-16	6	635.7							
2016	9-Nov-16	7	799							
2016	9-Nov-16	8	865.4							
2016	9-Nov-16	9	894.3							
2016	9-Nov-16	10	981.5		0.028					
2016	9-Nov-16	11	702.3		0.033					
2016	9-Nov-16	12	526.9		0.033					
2016	9-Nov-16	13	250.6		0.033					
2016	9-Nov-16	14	190.4		0.042					
2016	9-Nov-16	15	201.7		0.064					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	9-Nov-16	16	197		0.068					
2016	9-Nov-16	17	228.1		0.081					
2016	9-Nov-16	18	245.1		0.072					
2016	9-Nov-16	19	264.5		0.08					
2016	9-Nov-16	20	201.4		0.08					
2016	9-Nov-16	21	227.8		0.08					
2016	9-Nov-16	22	193.4		0.08					
2016	9-Nov-16	23	201.6		0.08					
2016	10-Nov-16	0	180.5		0.08					
2016	10-Nov-16	1	191.6		0.08					
2016	10-Nov-16	2	174.4		0.08					
2016	10-Nov-16	3	191.4		0.08					
2016	10-Nov-16	4	172.9		0.08					
2016	10-Nov-16	5	196.4		0.081					
2016	10-Nov-16	6	425.3		0.07					
2016	10-Nov-16	7	620.2		0.068					
2016	10-Nov-16	8	488.2		0.081					
2016	10-Nov-16	9	282.5		0.081					36.331
2016	10-Nov-16	10	189.3		0.08					85.7
2016	10-Nov-16	11	173		0.051					0
2016	10-Nov-16	12	162.8							0
2016	10-Nov-16	13	174.7							0
2016	10-Nov-16	14	165.8							0
2016	10-Nov-16	15	182.8							0
2016	10-Nov-16	16	166.8							0
2016	10-Nov-16	17	235.1							0
2016	10-Nov-16	18	363.9							0
2016	10-Nov-16	19	716.2							0
2016	10-Nov-16	20	1035.5							0
2016	10-Nov-16	21	1071.7							0
2016	10-Nov-16	22	901.7							0
2016	10-Nov-16	23	744.6							0
2016	11-Nov-16	0	489.6							0
2016	11-Nov-16	1	424.3							60.5
2016	11-Nov-16	2	279.8							162.9
2016	11-Nov-16	3	259.5							337.7
2016	11-Nov-16	4	210.3							522.9
2016	11-Nov-16	5	397.7							570.1
2016	11-Nov-16	6	659.2							574.6
2016	11-Nov-16	7	1237.2							682.9
2016	11-Nov-16	8	1374.4							852.2
2016	11-Nov-16	9	1202.3							775.9
2016	11-Nov-16	10	1089.3							1325.4
2016	11-Nov-16	11	1028.1							1441.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	11-Nov-16	12	799.7							1679.6
2016	11-Nov-16	13	693.9							1638.5
2016	11-Nov-16	14	436.1							1437.3
2016	11-Nov-16	15	357.3							1159
2016	11-Nov-16	16	292.8							1570.8
2016	11-Nov-16	17	382.4							1944.7
2016	11-Nov-16	18	290.1							1360
2016	11-Nov-16	19	285							949.1
2016	11-Nov-16	20	179.3							891.2
2016	11-Nov-16	21	172.8							864.1
2016	11-Nov-16	22	148.1							831.6
2016	11-Nov-16	23	160							807
2016	12-Nov-16	0	146.1							821.5
2016	12-Nov-16	1	151							824.6
2016	12-Nov-16	2	135							820.7
2016	12-Nov-16	3	142.6							816.6
2016	12-Nov-16	4	133							815.2
2016	12-Nov-16	5	152.9							799
2016	12-Nov-16	6	258.5							905.3
2016	12-Nov-16	7	981.9							1221.2
2016	12-Nov-16	8	662.3							839.6
2016	12-Nov-16	9	546.8							831.1
2016	12-Nov-16	10	463.3							780.5
2016	12-Nov-16	11	399.9							775.2
2016	12-Nov-16	12	315.9		0.022					774.8
2016	12-Nov-16	13	296.1		0.033					771.6
2016	12-Nov-16	14	216.9		0.033					778.9
2016	12-Nov-16	15	177.7		0.033					777.2
2016	12-Nov-16	16	169		0.033					777.3
2016	12-Nov-16	17	198.5		0.041					874
2016	12-Nov-16	18	327		0.061					864.3
2016	12-Nov-16	19	359.4		0.061					769.9
2016	12-Nov-16	20	537.5		0.061					762
2016	12-Nov-16	21	657.7		0.061					766.7
2016	12-Nov-16	22	429.4		0.061					768.6
2016	12-Nov-16	23	361.7		0.072					778.1
2016	13-Nov-16	0	239.7		0.071					769.4
2016	13-Nov-16	1	297		0.061					766.3
2016	13-Nov-16	2	343.5		0.071					768.6
2016	13-Nov-16	3	1076.8		0.081					769.5
2016	13-Nov-16	4	1564.8		0.081					926.3
2016	13-Nov-16	5	1247.1		0.081					1434.2
2016	13-Nov-16	6	1726.8		0.074					1479.7
2016	13-Nov-16	7	1732.7		0.066					1460.7



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	13-Nov-16	8	1439.5		0.073					1411.3
2016	13-Nov-16	9	1470.7		0.081				0	1243.2
2016	13-Nov-16	10	810.3		0.08				0	790.6
2016	13-Nov-16	11	536.6		0.08				0	753.8
2016	13-Nov-16	12	279		0.08				2.2	747.2
2016	13-Nov-16	13	224.3		0.058				45.5	747.7
2016	13-Nov-16	14	170.5						128.8	746.7
2016	13-Nov-16	15	159.3						145.1	749.2
2016	13-Nov-16	16	186.6						154.8	972.3
2016	13-Nov-16	17	380.8						154.7	1355.1
2016	13-Nov-16	18	354.6						152.9	1349.9
2016	13-Nov-16	19	404.7						151.2	1338.8
2016	13-Nov-16	20	514.4						146.1	1347.3
2016	13-Nov-16	21	478.9						143.5	1144.4
2016	13-Nov-16	22	410.4						143.6	752.7
2016	13-Nov-16	23	370.1						154.2	751.4
2016	14-Nov-16	0	253.8			0			170.5	746.2
2016	14-Nov-16	1	201.3			0			184.2	738.6
2016	14-Nov-16	2	156.6			0			178.2	734.3
2016	14-Nov-16	3	275.5			12.4			181.7	731.4
2016	14-Nov-16	4	558.3			166.1			194.1	729.2
2016	14-Nov-16	5	1139			561.6			217.2	1069.1
2016	14-Nov-16	6	1183.5			1030.3			225.4	1439.9
2016	14-Nov-16	7	1308.9			1270			235.6	1486.6
2016	14-Nov-16	8	1295.7			1312.4			413.2	1447.1
2016	14-Nov-16	9	1284.2			1353.7			470.6	1449.5
2016	14-Nov-16	10	1316.6			1369.1			588	1454.3
2016	14-Nov-16	11	1289.7			1374.3			689.5	1468.2
2016	14-Nov-16	12	1287.2			1376.4			813.903	1467.9
2016	14-Nov-16	13	1285.7			1373.1				1475.7
2016	14-Nov-16	14	1403.8			1368.7			25.824	1474.8
2016	14-Nov-16	15	2265.9			1393.3			45.428	1426.9
2016	14-Nov-16	16	2275.5			1416				1406.5
2016	14-Nov-16	17	1400.3			1426.4				1402.5
2016	14-Nov-16	18	1239.4			1414.7				1397.5
2016	14-Nov-16	19	2479.8			1405.9				1001.9
2016	14-Nov-16	20	2162.6			1235.4				771.4
2016	14-Nov-16	21	788.8			921.6				751.6
2016	14-Nov-16	22	371.4			825.1				746.4
2016	14-Nov-16	23	231.9			766.9				741.3
2016	15-Nov-16	0	168.5			702.1				735.8
2016	15-Nov-16	1	261.1			883.8				729.4
2016	15-Nov-16	2	317.9			937.4				738.3
2016	15-Nov-16	3	306.4			1007.2				747.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	15-Nov-16	4	446			1029.5				752.5
2016	15-Nov-16	5	830.7			1026.2				712.1
2016	15-Nov-16	6	830.5			965.2				822.4
2016	15-Nov-16	7	1375.9			725.8				1429.4
2016	15-Nov-16	8	1617.3			656.3				1486
2016	15-Nov-16	9	1372.4			493				1432.9
2016	15-Nov-16	10	1534.9			483				875.1
2016	15-Nov-16	11	1050.8			476				761.2
2016	15-Nov-16	12	960.9			485.9				739.8
2016	15-Nov-16	13	649.7			241.703				726.4
2016	15-Nov-16	14	516.1							713.8
2016	15-Nov-16	15	398.6							703
2016	15-Nov-16	16	327							773.1
2016	15-Nov-16	17	340							1202.8
2016	15-Nov-16	18	382.7							1212.5
2016	15-Nov-16	19	533.1							1417.7
2016	15-Nov-16	20	675.4							1080.4
2016	15-Nov-16	21	548.1							481.3
2016	15-Nov-16	22	333.1							683.4
2016	15-Nov-16	23	223.7							617.6
2016	16-Nov-16	0	192							662.4
2016	16-Nov-16	1	177.5							662.4
2016	16-Nov-16	2	193.1							666.8
2016	16-Nov-16	3	188.6							676.9
2016	16-Nov-16	4	363.7							1080.1
2016	16-Nov-16	5	574.4							1367.6
2016	16-Nov-16	6	877.2							1424.6
2016	16-Nov-16	7	1422.4							1405.3
2016	16-Nov-16	8	1444.4							1462.8
2016	16-Nov-16	9	1697.5							1392.9
2016	16-Nov-16	10	1953.5							962.5
2016	16-Nov-16	11	1292							737
2016	16-Nov-16	12	862.1							728.2
2016	16-Nov-16	13	502.7							717.1
2016	16-Nov-16	14	382.9							709.7
2016	16-Nov-16	15	287.6							695.4
2016	16-Nov-16	16	228.2							688.6
2016	16-Nov-16	17	197.7							731.6
2016	16-Nov-16	18	442.1							870.4
2016	16-Nov-16	19	679.2							658.8
2016	16-Nov-16	20	558.8							677.6
2016	16-Nov-16	21	323.4							681.5
2016	16-Nov-16	22	265							667.3
2016	16-Nov-16	23	184.9							657.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	17-Nov-16	0	172.2							660.3
2016	17-Nov-16	1	171.4							677.4
2016	17-Nov-16	2	183.3							687
2016	17-Nov-16	3	168.1							682.6
2016	17-Nov-16	4	245							1003
2016	17-Nov-16	5	431.4							1420.8
2016	17-Nov-16	6	1046.5							1462.2
2016	17-Nov-16	7	1286.4							1430
2016	17-Nov-16	8	1025.4							1033.2
2016	17-Nov-16	9	880.7							699
2016	17-Nov-16	10	669.3							702.4
2016	17-Nov-16	11	456.8							682.4
2016	17-Nov-16	12	420.7							698.6
2016	17-Nov-16	13	350							701.1
2016	17-Nov-16	14	350.2							698.4
2016	17-Nov-16	15	319.5							698.6
2016	17-Nov-16	16	341.2							690.8
2016	17-Nov-16	17	372.9							743
2016	17-Nov-16	18	524.1							729.6
2016	17-Nov-16	19	649.7							675.6
2016	17-Nov-16	20	535.2							675.4
2016	17-Nov-16	21	414.2							674.1
2016	17-Nov-16	22	308.2							659.7
2016	17-Nov-16	23	219.4							638.7
2016	18-Nov-16	0	179.2							639.5
2016	18-Nov-16	1	168.9							626.6
2016	18-Nov-16	2	171.6							627.6
2016	18-Nov-16	3	169.6							616.3
2016	18-Nov-16	4	225.8							743
2016	18-Nov-16	5	551.3							1231.7
2016	18-Nov-16	6	912.6							1225.6
2016	18-Nov-16	7	880.6							1200.5
2016	18-Nov-16	8	655.2							985.7
2016	18-Nov-16	9	381.8							766.2
2016	18-Nov-16	10	284.9							644.4
2016	18-Nov-16	11	169.6							664.4
2016	18-Nov-16	12	179.5							663.4
2016	18-Nov-16	13	173.8							651.3
2016	18-Nov-16	14	167.6							668.5
2016	18-Nov-16	15	178.6							676.3
2016	18-Nov-16	16	182.4							675.5
2016	18-Nov-16	17	173.2							656.6
2016	18-Nov-16	18	228.6							672.6
2016	18-Nov-16	19	319.7							692.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	18-Nov-16	20	260.1							711.2
2016	18-Nov-16	21	214.9							699.4
2016	18-Nov-16	22	164.6							720
2016	18-Nov-16	23	151.7							635.6
2016	19-Nov-16	0	158.2							261.92
2016	19-Nov-16	1	145.9							
2016	19-Nov-16	2	158							
2016	19-Nov-16	3	151.6							
2016	19-Nov-16	4	167.3							
2016	19-Nov-16	5	154.7							
2016	19-Nov-16	6	169.7							
2016	19-Nov-16	7	255.7							
2016	19-Nov-16	8	403							
2016	19-Nov-16	9	398.4							
2016	19-Nov-16	10	377.5							
2016	19-Nov-16	11	356.3							
2016	19-Nov-16	12	372.4							
2016	19-Nov-16	13	347.7							
2016	19-Nov-16	14	358.9							
2016	19-Nov-16	15	314.5							
2016	19-Nov-16	16	332.9							
2016	19-Nov-16	17	310.2							
2016	19-Nov-16	18	303.8							
2016	19-Nov-16	19	191.5							
2016	19-Nov-16	20	186.5							
2016	19-Nov-16	21	172.8							
2016	19-Nov-16	22	162.2							
2016	19-Nov-16	23	152.3							
2016	20-Nov-16	0	157.2							
2016	20-Nov-16	1	148.6	0.783						
2016	20-Nov-16	2	156.8	1						
2016	20-Nov-16	3	141.1	0						
2016	20-Nov-16	4	177	0						
2016	20-Nov-16	5	283.8	0						
2016	20-Nov-16	6	645.8	0						
2016	20-Nov-16	7	919.4	2.2						
2016	20-Nov-16	8	953.7	0						
2016	20-Nov-16	9	952.4	0						
2016	20-Nov-16	10	972.6	0						
2016	20-Nov-16	11	958.3	0						
2016	20-Nov-16	12	811	0						
2016	20-Nov-16	13	363.6	1.1						
2016	20-Nov-16	14	290.6	50.8						
2016	20-Nov-16	15	187	65.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	20-Nov-16	16	194	94.2						
2016	20-Nov-16	17	415.1	104.6						
2016	20-Nov-16	18	847.1	111.7						
2016	20-Nov-16	19	831.1	250						
2016	20-Nov-16	20	988.4	350.1						
2016	20-Nov-16	21	1494.7	399.6						
2016	20-Nov-16	22	1140.4	280.8						
2016	20-Nov-16	23	844.8	451.5						
2016	21-Nov-16	0	406.6	475.3						
2016	21-Nov-16	1	308.8	454						
2016	21-Nov-16	2	303.4	384.3						
2016	21-Nov-16	3	355.2	515.1						
2016	21-Nov-16	4	1176.2	757.3						
2016	21-Nov-16	5	1154.2	493.4						
2016	21-Nov-16	6	1267	691.7						
2016	21-Nov-16	7	1239.7	1009.3						
2016	21-Nov-16	8	990.9	815.9						
2016	21-Nov-16	9	824	639.4						
2016	21-Nov-16	10	716.8	574						
2016	21-Nov-16	11	553.6	468.2						
2016	21-Nov-16	12	507	364.9						
2016	21-Nov-16	13	359.5	285.2						
2016	21-Nov-16	14	285.9	252.6						
2016	21-Nov-16	15	409.9	351.2						
2016	21-Nov-16	16	686.6	569.3						
2016	21-Nov-16	17	1057	1267.2						
2016	21-Nov-16	18	1106.7	1227						
2016	21-Nov-16	19	1259.1	974.5						
2016	21-Nov-16	20	1227.2	861.7						
2016	21-Nov-16	21	881.8	695.2						
2016	21-Nov-16	22	665	316.5						
2016	21-Nov-16	23	364.8	190.8						
2016	22-Nov-16	0	343.5	163.9	0.062					
2016	22-Nov-16	1	244	164.1	0.065					
2016	22-Nov-16	2	184.8	511	0.08					
2016	22-Nov-16	3	173.2	3272.4	0.08					
2016	22-Nov-16	4	337.2	12141.7	0.071					
2016	22-Nov-16	5	596.7	18676.3	0.063					
2016	22-Nov-16	6	906	2689.6	0.074					
2016	22-Nov-16	7	1094.8	566.6	0.08					
2016	22-Nov-16	8	1235.9	948.9	0.077					
2016	22-Nov-16	9	1180.7	1196	0.061					
2016	22-Nov-16	10	1248.7	1127.5	0.075					
2016	22-Nov-16	11	1167.3	1097.6	0.081					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	22-Nov-16	12	752.4	948.7	0.08					
2016	22-Nov-16	13	566.4	524.7	0.065					
2016	22-Nov-16	14	556.7	251.6	0.061					
2016	22-Nov-16	15	464.9	214.5	0.077					
2016	22-Nov-16	16	404.3	218	0.081					
2016	22-Nov-16	17	318.2	252.1	0.08					
2016	22-Nov-16	18	547.3	377.9	0.08					
2016	22-Nov-16	19	511	395.1	0.071					
2016	22-Nov-16	20	399	339.8	0.074					
2016	22-Nov-16	21	212.6	373.7	0.08					
2016	22-Nov-16	22	163.2	285.2	0.07					
2016	22-Nov-16	23	138.2	188.8	0.078					
2016	23-Nov-16	0	156.5	156.3	0.08					
2016	23-Nov-16	1	130	146.9	0.078					
2016	23-Nov-16	2	174.4	168	0.069					
2016	23-Nov-16	3	460.3	358.6	0.075					
2016	23-Nov-16	4	1263.8	838.1	0.077					
2016	23-Nov-16	5	1368.1	1157.6	0.081					
2016	23-Nov-16	6	1397.4	1220.3	0.081					
2016	23-Nov-16	7	1440.3	1292.2	0.081					
2016	23-Nov-16	8	1399.1	1157	0.081					
2016	23-Nov-16	9	1343.6	1269.9	0.073					
2016	23-Nov-16	10	1374.6	1414.1	0.061					
2016	23-Nov-16	11	1183.2	1299.2	0.062					
2016	23-Nov-16	12	764.9	1048.9	0.081					
2016	23-Nov-16	13	456.8	880.4	0.081					
2016	23-Nov-16	14	327.3	696.7	0.081					
2016	23-Nov-16	15	202.9	653.5	0.081					
2016	23-Nov-16	16	178.6	527.4	0.065					
2016	23-Nov-16	17	179.9	433.1	0.074					
2016	23-Nov-16	18	422.5	382	0.081					
2016	23-Nov-16	19	304.1	371.5	0.065					
2016	23-Nov-16	20	294.5	360.2	0.081					
2016	23-Nov-16	21	196.7	270	0.066					
2016	23-Nov-16	22	168.2	216.3	0.075					
2016	23-Nov-16	23	140.4	158.1	0.08					
2016	24-Nov-16	0	165.6	133.5	0.065					
2016	24-Nov-16	1	138	135.8	0.081					
2016	24-Nov-16	2	158.6	132.9	0.081					
2016	24-Nov-16	3	265.4	225.1	0.067					
2016	24-Nov-16	4	411.2	385.6	0.075					
2016	24-Nov-16	5	381	357.8	0.08					
2016	24-Nov-16	6	418.2	349.2	0.08					
2016	24-Nov-16	7	351.4	285.9	0.08					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	24-Nov-16	8	318.8	265.4	0.062					
2016	24-Nov-16	9	224.8	214.8	0.018					
2016	24-Nov-16	10	237.1	157.5						
2016	24-Nov-16	11	168.4	134						
2016	24-Nov-16	12	147.4	106.9						
2016	24-Nov-16	13	130.4	91.3						
2016	24-Nov-16	14	139.2	93.6						
2016	24-Nov-16	15	125.8	86.4						
2016	24-Nov-16	16	138.5	82.7						
2016	24-Nov-16	17	197.2	137.7						
2016	24-Nov-16	18	567	246.7						
2016	24-Nov-16	19	941.7	523.7						
2016	24-Nov-16	20	1002.7	892						
2016	24-Nov-16	21	828.6	917.9						
2016	24-Nov-16	22	542.8	722.8						
2016	24-Nov-16	23	264.6	454.9						
2016	25-Nov-16	0	184.1	278.7						
2016	25-Nov-16	1	121.4	167.2						
2016	25-Nov-16	2	140.4	122						
2016	25-Nov-16	3	122.6	120.3						
2016	25-Nov-16	4	208.5	156.5						
2016	25-Nov-16	5	326.6	308.7						
2016	25-Nov-16	6	378.4	342.7						
2016	25-Nov-16	7	377.9	349						
2016	25-Nov-16	8	300	288.9						
2016	25-Nov-16	9	245.7	197.2						
2016	25-Nov-16	10	194.9	141.4						
2016	25-Nov-16	11	136.4	119.7						
2016	25-Nov-16	12	136.7	115.2						
2016	25-Nov-16	13	128.9	116						
2016	25-Nov-16	14	135	116.8						
2016	25-Nov-16	15	123.1	115.3						
2016	25-Nov-16	16	132.8	115.2						
2016	25-Nov-16	17	151.1	145.7						
2016	25-Nov-16	18	197.3	149.4						
2016	25-Nov-16	19	197.2	133.9						
2016	25-Nov-16	20	191	126.7						
2016	25-Nov-16	21	144	141.4						
2016	25-Nov-16	22	139.3	101.3						
2016	25-Nov-16	23	125.9	124.1						
2016	26-Nov-16	0	129.5	118.8						
2016	26-Nov-16	1	121.1	119.4						
2016	26-Nov-16	2	128.1	119.5						
2016	26-Nov-16	3	122	121.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	26-Nov-16	4	130.6	118.8						
2016	26-Nov-16	5	123.5	120						
2016	26-Nov-16	6	146	122						
2016	26-Nov-16	7	149	133.9						
2016	26-Nov-16	8	234.2	189.4						
2016	26-Nov-16	9	212.5	238						
2016	26-Nov-16	10	303.4	306.6						
2016	26-Nov-16	11	298.6	361.6						
2016	26-Nov-16	12	294	252.1						
2016	26-Nov-16	13	236.5	225.7						
2016	26-Nov-16	14	206.3	149						
2016	26-Nov-16	15	129.5	128.8						
2016	26-Nov-16	16	128.7	123.7						
2016	26-Nov-16	17	187.1	179.7						
2016	26-Nov-16	18	234	248.6						
2016	26-Nov-16	19	265.4	341.9						
2016	26-Nov-16	20	327.3	397.7						
2016	26-Nov-16	21	275.9	337.7						
2016	26-Nov-16	22	250.9	255.3						
2016	26-Nov-16	23	195.7	176.9						
2016	27-Nov-16	0	224.1	153.9						
2016	27-Nov-16	1	196.1	124.2						
2016	27-Nov-16	2	220.8	125.8						
2016	27-Nov-16	3	266.1	202.4						
2016	27-Nov-16	4	282.9	186.6						
2016	27-Nov-16	5	282.7	155.7						
2016	27-Nov-16	6	497	197.6						
2016	27-Nov-16	7	1118.7	322.7						
2016	27-Nov-16	8	900.8	518						
2016	27-Nov-16	9	570.5	507.1						
2016	27-Nov-16	10	379.6	415						
2016	27-Nov-16	11	234.5	303.3						
2016	27-Nov-16	12	195.9	258.8						
2016	27-Nov-16	13	134.6	217.1						
2016	27-Nov-16	14	150.8	152.4						
2016	27-Nov-16	15	131.5	120.9						
2016	27-Nov-16	16	189.1	152.4						
2016	27-Nov-16	17	315.6	251						
2016	27-Nov-16	18	433.8	357.3						
2016	27-Nov-16	19	571.6	507.7						
2016	27-Nov-16	20	776.5	699.4						
2016	27-Nov-16	21	719.5	782.7						
2016	27-Nov-16	22	592	684.1						
2016	27-Nov-16	23	402	574.2						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	28-Nov-16	0	384.2	507.4						
2016	28-Nov-16	1	260.2	391.1						
2016	28-Nov-16	2	276.4	309.1						
2016	28-Nov-16	3	246.4	298.4						
2016	28-Nov-16	4	373.3	347						
2016	28-Nov-16	5	491	501.3						
2016	28-Nov-16	6	1028.7	942.6						
2016	28-Nov-16	7	1126.4	1049.5						
2016	28-Nov-16	8	1202.6	1128						
2016	28-Nov-16	9	1126	1155.4						
2016	28-Nov-16	10	1065.9	1011.2						
2016	28-Nov-16	11	893.1	955.7						
2016	28-Nov-16	12	844.8	745.1						
2016	28-Nov-16	13	563.2	518.1						
2016	28-Nov-16	14	413	363.1						
2016	28-Nov-16	15	450.4	317.9						
2016	28-Nov-16	16	1118	712.5						
2016	28-Nov-16	17	1038.8	917.5						
2016	28-Nov-16	18	1059.3	941.5						
2016	28-Nov-16	19	979.4	915.7						
2016	28-Nov-16	20	692.2	837.6						
2016	28-Nov-16	21	422.6	695.5						
2016	28-Nov-16	22	322.7	581.6						
2016	28-Nov-16	23	202.7	435.5						
2016	29-Nov-16	0	143.6	287.8						
2016	29-Nov-16	1	144.8	238.1						
2016	29-Nov-16	2	156.7	141.6						
2016	29-Nov-16	3	129	121.1						
2016	29-Nov-16	4	184.6	159.9						
2016	29-Nov-16	5	297.8	357.5						
2016	29-Nov-16	6	541.6	571.3						
2016	29-Nov-16	7	552.4	539.9						
2016	29-Nov-16	8	505.6	510.7						
2016	29-Nov-16	9	452.1	550.8						
2016	29-Nov-16	10	599	651.7						
2016	29-Nov-16	11	549.2	571.8						
2016	29-Nov-16	12	493.9	586.7						
2016	29-Nov-16	13	390.4	589.6						
2016	29-Nov-16	14	287.9	525.2						
2016	29-Nov-16	15	207.2	410.2						
2016	29-Nov-16	16	194.7	349.7						
2016	29-Nov-16	17	162.6	302.2						
2016	29-Nov-16	18	298	443.4						
2016	29-Nov-16	19	651.3	683.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	29-Nov-16	20	665.1	776.8						
2016	29-Nov-16	21	392.8	667.8						
2016	29-Nov-16	22	264.3	462.3						
2016	29-Nov-16	23	196.6	326.1						
2016	30-Nov-16	0	155.5	211.3						
2016	30-Nov-16	1	138.6	156.9						
2016	30-Nov-16	2	148.4	156.6						
2016	30-Nov-16	3	194.9	186.8						
2016	30-Nov-16	4	330.6	316.7						
2016	30-Nov-16	5	492.9	514.7						
2016	30-Nov-16	6	588.7	599.8						
2016	30-Nov-16	7	560	541.6						
2016	30-Nov-16	8	505.7	540.8						
2016	30-Nov-16	9	396.7	503.7						
2016	30-Nov-16	10	337.7	439.5						
2016	30-Nov-16	11	260.9	356.4						
2016	30-Nov-16	12	219	272						
2016	30-Nov-16	13	167.2	219.8						
2016	30-Nov-16	14	167.8	126.9						
2016	30-Nov-16	15	192.1	161.9						
2016	30-Nov-16	16	479.2	531.8						
2016	30-Nov-16	17	1013.6	1070.6						
2016	30-Nov-16	18	1129.8	1096.6						
2016	30-Nov-16	19	1089.3	1108.6						
2016	30-Nov-16	20	628.9	781.3						
2016	30-Nov-16	21	366.1	560.1						
2016	30-Nov-16	22	291.3	336.8						
2016	30-Nov-16	23	237.3	245.7						
2016	1-Dec-16	0	167.5	171.4						
2016	1-Dec-16	1	156.2	136.9						
2016	1-Dec-16	2	159.5	150.1						
2016	1-Dec-16	3	152	149.8						
2016	1-Dec-16	4	155.7	155.2						
2016	1-Dec-16	5	229.2	193.2						
2016	1-Dec-16	6	285.1	310.9						
2016	1-Dec-16	7	265.9	315.5						
2016	1-Dec-16	8	267.6	297.1						
2016	1-Dec-16	9	254.2	301.4						
2016	1-Dec-16	10	269.1	299.3						
2016	1-Dec-16	11	247.7	297.1						
2016	1-Dec-16	12	263.8	296.9						
2016	1-Dec-16	13	235.5	281.3						
2016	1-Dec-16	14	177.4	221.6						
2016	1-Dec-16	15	167.5	195.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	1-Dec-16	16	464	457.6						
2016	1-Dec-16	17	684.5	650.3						
2016	1-Dec-16	18	1103.3	1002.6						
2016	1-Dec-16	19	1042.7	1132.5						
2016	1-Dec-16	20	1184.8	1128						
2016	1-Dec-16	21	1087.7	1139						
2016	1-Dec-16	22	939.7	962.7						
2016	1-Dec-16	23	372.2	631.8						
2016	2-Dec-16	0	247.5	438.5						
2016	2-Dec-16	1	148	275.5						
2016	2-Dec-16	2	147.9	183.7						
2016	2-Dec-16	3	152.4	134.9						
2016	2-Dec-16	4	304.7	219						
2016	2-Dec-16	5	811.3	324.1						
2016	2-Dec-16	6	1052.6	586.8						
2016	2-Dec-16	7	1121.5	704.8						
2016	2-Dec-16	8	1099.6	1234.5						
2016	2-Dec-16	9	1093.5	1145.5						
2016	2-Dec-16	10	1153.1	1223.2		0				
2016	2-Dec-16	11	1035.6	1230.6		0				
2016	2-Dec-16	12	871.6	885.5		0				
2016	2-Dec-16	13	643.4	594.6		0				
2016	2-Dec-16	14	487.2	712		0				
2016	2-Dec-16	15	406.4	706.8		0				
2016	2-Dec-16	16	1072.9	1133		0				
2016	2-Dec-16	17	969.8	1002.9		0				
2016	2-Dec-16	18	1009.2	1025.8		0				
2016	2-Dec-16	19	957.4	1015.4		0				
2016	2-Dec-16	20	996.3	1002.5		0				
2016	2-Dec-16	21	958.8	985.4		0				
2016	2-Dec-16	22	581.3	796.1		0				
2016	2-Dec-16	23	368.3	650.1		0				
2016	3-Dec-16	0	335.7	581.3		0				
2016	3-Dec-16	1	218.4	495.3		0				
2016	3-Dec-16	2	192.6	451.3		0				
2016	3-Dec-16	3	124.6	355.8		0				
2016	3-Dec-16	4	121.6	254.9		0				
2016	3-Dec-16	5	98.2	233.2		0				
2016	3-Dec-16	6	107.1	216.8		0				
2016	3-Dec-16	7	134.4	227.3		0				
2016	3-Dec-16	8	148.1	258.7		0				
2016	3-Dec-16	9	1233.9	2441.6		0				
2016	3-Dec-16	10	1018.1	1633		0				
2016	3-Dec-16	11	128.7	227.3		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	3-Dec-16	12	97.7	183.5		0				
2016	3-Dec-16	13	82.8	177.2		0				
2016	3-Dec-16	14	70.5	187.8		0				
2016	3-Dec-16	15	55.3	160.9		0				
2016	3-Dec-16	16	61.2	164.4		0				
2016	3-Dec-16	17	74.2	204.4		0				
2016	3-Dec-16	18	104.3	173.7		0				
2016	3-Dec-16	19	133.8	216		0				
2016	3-Dec-16	20	220.6	307.2		0				
2016	3-Dec-16	21	286.2	350.4		0				
2016	3-Dec-16	22	287.5	319.8		0				
2016	3-Dec-16	23	228.6	269.3		0				
2016	4-Dec-16	0	244.2	219.5		0	0			
2016	4-Dec-16	1	208	176.4		0	0			
2016	4-Dec-16	2	151.8	138.1		0	0			
2016	4-Dec-16	3	118.2	107.2		0	2.1			
2016	4-Dec-16	4	130.2	120.4		0	3.3			
2016	4-Dec-16	5	121.7	131.9		0	10.1			
2016	4-Dec-16	6	150.7	150		0	24.3			
2016	4-Dec-16	7	209.5	258.7		0	69.2			
2016	4-Dec-16	8	278.7	355.6		0	111.3			
2016	4-Dec-16	9	301.4	427.8		0	154			
2016	4-Dec-16	10	268.1	349.5		0	229.1			
2016	4-Dec-16	11	184.6	253.9		0	214			
2016	4-Dec-16	12	168.5	226.8		0	225.6			
2016	4-Dec-16	13	147.4	216.9		0	265.5			
2016	4-Dec-16	14	158	199		0	258.4			
2016	4-Dec-16	15	178.1	274.8		0	252.4			
2016	4-Dec-16	16	215.9	328.1		0	252			
2016	4-Dec-16	17	285.5	398.1		0	233.8			
2016	4-Dec-16	18	317.8	425.4		0	247			
2016	4-Dec-16	19	373.3	548.1		0	299			
2016	4-Dec-16	20	347.7	622.9		0	403.6			
2016	4-Dec-16	21	332.7	560.9		0	893.1			
2016	4-Dec-16	22	263.2	480.6		0	1371.7			
2016	4-Dec-16	23	180.9	441.9		0	2.5			
2016	5-Dec-16	0	158.7	361.7		0	174			
2016	5-Dec-16	1	109.6	279.4		0	420.3			
2016	5-Dec-16	2	110.2	221.1		0	735.4			
2016	5-Dec-16	3	126	231		0	1129.1			
2016	5-Dec-16	4	260.3	408.2		0	1653.7			
2016	5-Dec-16	5	411.7	663.6			2277.6			
2016	5-Dec-16	6	745.9	1034.3			2448.8			
2016	5-Dec-16	7	906	993.4			2895.7			0.18

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	5-Dec-16	8	716.2	891.8			2918.5			0
2016	5-Dec-16	9	568.6	574			2734.6			0.2
2016	5-Dec-16	10	519	579.1			2589.1			0
2016	5-Dec-16	11	408.7	414.3			2350.5			0
2016	5-Dec-16	12	288.3	236.3			2042.3			0
2016	5-Dec-16	13	249.9	155.7			1921.3			0
2016	5-Dec-16	14	181.4	125.5			1924.8			0
2016	5-Dec-16	15	149.1	135.2			1937.8			0
2016	5-Dec-16	16	126.7	143.4			1943.4			0
2016	5-Dec-16	17	185.6	170.3			2182.8			0
2016	5-Dec-16	18	323.8	230.5			2434.4			0
2016	5-Dec-16	19	522.5	475.2			2470.4			0
2016	5-Dec-16	20	570.1	572.8			2476.6			0
2016	5-Dec-16	21	405.8	622.1			2303.3			51.2
2016	5-Dec-16	22	269.2	450.8			2017.6			156.5
2016	5-Dec-16	23	155.3	272.3			1900.6			327.6
2016	6-Dec-16	0	119.2	199.9			1873.8			660
2016	6-Dec-16	1	104.3	128.8			1839.4			826
2016	6-Dec-16	2	115.9	108.4			1846.1			859.6
2016	6-Dec-16	3	94.3	105.1			1843.1			886.7
2016	6-Dec-16	4	103.8	104.8			1866			1107.9
2016	6-Dec-16	5	88.4	108.4			1875			1575.5
2016	6-Dec-16	6	115.5	136.1			1914.7			1949.9
2016	6-Dec-16	7	210.7	257.1			2157.7		0	1972.4
2016	6-Dec-16	8	180.8	240			2122.6		0	1987.5
2016	6-Dec-16	9	240.6	332.3			2038.6		0.8	1896.8
2016	6-Dec-16	10	522.2	482.8			2366.8		0	1802.7
2016	6-Dec-16	11	553	595.5			2406		57.1	1399.1
2016	6-Dec-16	12	611.3	690.5			2492.5		88.7	1150.8
2016	6-Dec-16	13	706.6	841.5			2614.4		82.2	1277.2
2016	6-Dec-16	14	513.6	641.1			2292.1		72.9	1273.3
2016	6-Dec-16	15	382.2	565.5			2138.6		85.6	1393.3
2016	6-Dec-16	16	568.9	736.8			2251.7		81.4	1232.6
2016	6-Dec-16	17	639.1	752.1		0	2508.5		78.6	1114.8
2016	6-Dec-16	18	525.2	727.6		0	2344.3		76.3	933.1
2016	6-Dec-16	19	435.8	770.9		0	2305.8		96.6	655.8
2016	6-Dec-16	20	627.9	846		0	2538.2		108.8	571.4
2016	6-Dec-16	21	409.2	787.9		0	2234		112.2	322.245
2016	6-Dec-16	22	375	670.6		0	1939.4		167.7	
2016	6-Dec-16	23	184.1	524.5		0	1869.3		161.8	
2016	7-Dec-16	0	126.9	436.2		0	1869.5		215.7	
2016	7-Dec-16	1	105.1	324.4		0	1866.1		253.3	
2016	7-Dec-16	2	119.6	201.3		0	1839.5		276.8	
2016	7-Dec-16	3	100.8	144		0	1868.8		341.2	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	7-Dec-16	4	113.5	130.5		0	1857.8		357.6	
2016	7-Dec-16	5	89.2	116.7		0	1872.4		456.4	
2016	7-Dec-16	6	149.2	178.5		0	1955.6		579.9	
2016	7-Dec-16	7	307.4	414.2		0	2090.7		644	
2016	7-Dec-16	8	360.4	387.4		0	2077.1		790	
2016	7-Dec-16	9	209.8	222.5		0	1876.5		1011	
2016	7-Dec-16	10	183.7	145.4		0	1860.4		959.8	
2016	7-Dec-16	11	144.1	82.3		0	1847		998.3	
2016	7-Dec-16	12	109.5	83.1		0	1829.5		762.7	
2016	7-Dec-16	13	69.9	82.5		0	1842.2		719.6	
2016	7-Dec-16	14	75.2	82		0	1848.3		734.2	
2016	7-Dec-16	15	68.9	104.4		0	2028.9		716.1	
2016	7-Dec-16	16	149.8	235.7		0	2481.2		695.1	
2016	7-Dec-16	17	250.6	528.6		0	2735.5		670.8	
2016	7-Dec-16	18	405.4	660		0	3085.1		687.5	
2016	7-Dec-16	19	350	537.8		0	3138.5		691.6	
2016	7-Dec-16	20	310.3	324.9		0	2723.4		682	
2016	7-Dec-16	21	234.5	323.6		0	2453		691.6	
2016	7-Dec-16	22	185.2	184.2		0	2118.5		739.3	
2016	7-Dec-16	23	111.6	89.8		0	2017.7		893.8	
2016	8-Dec-16	0	78.7	72.8		0	2048.9		828.2	
2016	8-Dec-16	1	52.6	80		0	2048.5		925.2	
2016	8-Dec-16	2	61	78.8		0	2047.3		957.3	
2016	8-Dec-16	3	50.5	76.3		0	2059.1		1064.3	
2016	8-Dec-16	4	111.7	148.8		0	2258.8		868.3	
2016	8-Dec-16	5	210.5	255.6		0	2598.3		823	
2016	8-Dec-16	6	281.6	384.9		0	2876.7		1080.6	
2016	8-Dec-16	7	437.5	574.5		0	2978.8		1205	
2016	8-Dec-16	8	462.9	673.2		0	3165.4		1182.3	
2016	8-Dec-16	9	404	647.1		0	3012.6		774	
2016	8-Dec-16	10	282.2	429.8		0	2760.2		726.3	
2016	8-Dec-16	11	158	288.2		0	2537		1310.3	
2016	8-Dec-16	12	222.6	264.3		0	2228.2		1559.8	
2016	8-Dec-16	13	190.9	245.8		0	1986		1479.2	
2016	8-Dec-16	14	199.2	242.8		0	2010.6		1417.2	
2016	8-Dec-16	15	177.4	244.1		0	1993.8		1403.6	
2016	8-Dec-16	16	204.2	252.8		0	2062.3		1400.8	
2016	8-Dec-16	17	270.3	325.6		0	2183.6		1258.9	
2016	8-Dec-16	18	310.5	378.3		0	2416.1		1250.5	
2016	8-Dec-16	19	481.9	521.7		0	2825.9		1300.8	
2016	8-Dec-16	20	465.3	739.5		0	3060.9		1229.4	
2016	8-Dec-16	21	404.9	790		0	3090.8		966	
2016	8-Dec-16	22	237.3	636		0	2693.9		805.5	
2016	8-Dec-16	23	105.7	505.7		0	2193.3		722.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	9-Dec-16	0	82.7	384.6		0	1982		376.748	
2016	9-Dec-16	1	89.3	273.1		0	1967.5		4.15	
2016	9-Dec-16	2	106.8	182.1		0	1988.1			
2016	9-Dec-16	3	108.3	196.6		0	1986.7			
2016	9-Dec-16	4	258.3	332.8		0	2064.7			
2016	9-Dec-16	5	353	508.3		0	2217.1			
2016	9-Dec-16	6	457.5	676.6		0	2513.9			
2016	9-Dec-16	7	484.8	735.5		0	2905.4			
2016	9-Dec-16	8	480	776.8		0	3290.4			
2016	9-Dec-16	9	416.9	770.4		0	3289.5			
2016	9-Dec-16	10	486.3	780.4		0	3295.2			
2016	9-Dec-16	11	458.6	719.3		0	3280.7			
2016	9-Dec-16	12	574.3	818.6		0	3259.1			
2016	9-Dec-16	13	465.1	845.6		0	3056.2			
2016	9-Dec-16	14	365.9	720.9		0	2751.4			
2016	9-Dec-16	15	339.4	621.6		0	2443.3			
2016	9-Dec-16	16	390.4	635.8		0	2301.4			
2016	9-Dec-16	17	393	670.6		0	2502.3			
2016	9-Dec-16	18	482.9	719.3		0	2721.9			
2016	9-Dec-16	19	447.3	732.2		0	2825.2			
2016	9-Dec-16	20	482	726.4		0	3028.6			
2016	9-Dec-16	21	469.2	721.8		0	3168			
2016	9-Dec-16	22	370.3	619.7		0	2928.4			
2016	9-Dec-16	23	256.8	550.5		0	2507.1			
2016	10-Dec-16	0	168.6	382.6		0	2059.1			
2016	10-Dec-16	1	123.2	241		0	1983.2			
2016	10-Dec-16	2	138.6	136.5		0	1980.6			
2016	10-Dec-16	3	126	114.3		0	2021.1			
2016	10-Dec-16	4	150	110.2		0	2054.4			
2016	10-Dec-16	5	143.3	130.1		0	2149.6			
2016	10-Dec-16	6	212.1	176.3		0	2370.1			
2016	10-Dec-16	7	271.2	250.4		0	2507.8			
2016	10-Dec-16	8	264	332.1			2858.5			
2016	10-Dec-16	9	222.4	341.1			2709.1			
2016	10-Dec-16	10	281.1	377			2445.6			
2016	10-Dec-16	11	197.7	351			2214.3			
2016	10-Dec-16	12	185.9	350.4			2026.7			
2016	10-Dec-16	13	135	353.1			1946.5			
2016	10-Dec-16	14	148.6	342.7			1969.3			
2016	10-Dec-16	15	123.3	340.6			1974.8			
2016	10-Dec-16	16	138.7	337.8			1988.5			
2016	10-Dec-16	17	157.5	352.1			2120.1			
2016	10-Dec-16	18	222.1	344.9			2284.8			
2016	10-Dec-16	19	198.9	357.5			2235.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	10-Dec-16	20	298.9	405.3			2398.3			
2016	10-Dec-16	21	269.6	478.4			2547.1			
2016	10-Dec-16	22	229.4	375.4			2461.3			
2016	10-Dec-16	23	120.4	300.3			2184.5			
2016	11-Dec-16	0	114.2	193			1959.7			
2016	11-Dec-16	1	80.8	152.3			1954.2			
2016	11-Dec-16	2	76.8	114.7			1956.9			
2016	11-Dec-16	3	62.2	102.4			1968.4			
2016	11-Dec-16	4	83.5	104.5			1956.9			
2016	11-Dec-16	5	64.1	102.5			1948.4			
2016	11-Dec-16	6	89.1	101.2			2014.9			
2016	11-Dec-16	7	111.2	108.3			1458.5			
2016	11-Dec-16	8	127.3	127.5			2004.4			
2016	11-Dec-16	9	92.7	113.9			1940.2			
2016	11-Dec-16	10	112.2	101.9			1935.9			
2016	11-Dec-16	11	90.8	108.1			1945.5			
2016	11-Dec-16	12	129	116.4			1802.9			
2016	11-Dec-16	13	91.5	108.7			1935.2			
2016	11-Dec-16	14	85.5	101.9			1938.8			
2016	11-Dec-16	15	65.7	102.8			1945.1			
2016	11-Dec-16	16	87.2	113.1			2000			
2016	11-Dec-16	17	107.9	155.1			2335.2			
2016	11-Dec-16	18	149.9	211.3			2329			
2016	11-Dec-16	19	128.1	208.5			2219.7			
2016	11-Dec-16	20	141	178.5			2052.2			
2016	11-Dec-16	21	122.1	145.5			1947			
2016	11-Dec-16	22	109.8	101.9			1952.4			
2016	11-Dec-16	23	82.1	99.4			1955			
2016	12-Dec-16	0	92.1	100.8			1954.2			
2016	12-Dec-16	1	73.1	101.6			1951.2			
2016	12-Dec-16	2	94.6	101.6			1943.3			0
2016	12-Dec-16	3	79.4	103.5			1938.2			0
2016	12-Dec-16	4	132.8	104.4			1950.7			0.1
2016	12-Dec-16	5	191.2	101.9			1946.7			0.1
2016	12-Dec-16	6	225.5	96.8		0	1950.2			0.1
2016	12-Dec-16	7	369.3	140.9		0	1910			0.1
2016	12-Dec-16	8	693.6	167.9		0	1927.9			0.1
2016	12-Dec-16	9	1136.9	162.5		0	1929.6			0.1
2016	12-Dec-16	10	1505.4	266.7		0	2094.2			0.1
2016	12-Dec-16	11	1508.4	531.8		0	2496.4			0.2
2016	12-Dec-16	12	1031.1	447.9		0	2265.6			0.2
2016	12-Dec-16	13	647.5	368.7		0	2009.8			0.2
2016	12-Dec-16	14	479.5	248.8		0	1939.5			0
2016	12-Dec-16	15	259.4	163		0	1925.2			1



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	12-Dec-16	16	337.2	123.2		0	1997.5			77.7
2016	12-Dec-16	17	558.8	197.2		0	2084.4			112
2016	12-Dec-16	18	824.3	262.1		0	1941.3			119.4
2016	12-Dec-16	19	803	387.8		0	1929.8			140.4
2016	12-Dec-16	20	1175.5	469.1		0	1925			209.1
2016	12-Dec-16	21	1263	589.5		0	1933.4			301
2016	12-Dec-16	22	740.9	484.7		0	1951.4			452.9
2016	12-Dec-16	23	321.1	356.2		0	1944.2			479.5
2016	13-Dec-16	0	219	237.4		0	1922.2			425.5
2016	13-Dec-16	1	181	168.1		0	1923.7			435.6
2016	13-Dec-16	2	204.1	124.7		0	1937.2			427.5
2016	13-Dec-16	3	166.5	100.4		0	1933			422.7
2016	13-Dec-16	4	182.2	98		0	1919.1			421.6
2016	13-Dec-16	5	191.9	135.1		127	2019.1			428.6
2016	13-Dec-16	6	400.9	380		516	1983.4			588.8
2016	13-Dec-16	7	909.8	841		686	1893.7			987.4
2016	13-Dec-16	8	1383.6	840.7		617.1	1933.1			1024.7
2016	13-Dec-16	9	1086.3	717.9		609.7	2226.3			715.6
2016	13-Dec-16	10	921.5	637.2		628.8	2301			474.7
2016	13-Dec-16	11	297.9	449.1		600.6	2087.9			446.4
2016	13-Dec-16	12	264.5	349.2		582.8	2083.4			402.9
2016	13-Dec-16	13	211.2	276.7		602.9	2019			405.6
2016	13-Dec-16	14	230.9	391.1		564	2017.8			468.7
2016	13-Dec-16	15	251	482		591.9	1893			516.7
2016	13-Dec-16	16	445.8	716.2		615.9	1898			652
2016	13-Dec-16	17	794.3	816.5		620.5	1886.9		0	969.6
2016	13-Dec-16	18	1231.9	817.4		604.2	1875.7		0	1116.1
2016	13-Dec-16	19	1468.9	770.8		602	1938.4		0.2	1068
2016	13-Dec-16	20	1395.3	719.6		591.4	2333.5		0	807.4
2016	13-Dec-16	21	1175.7	735		594.3	2360.4		3.2	560.4
2016	13-Dec-16	22	983.3	617.2		592.5	2157.7		25.8	533.6
2016	13-Dec-16	23	703.7	423.5		585.2	1911		32.2	400.6
2016	14-Dec-16	0	702.1	287.2		575.8	1882.7		42.9	395.6
2016	14-Dec-16	1	511.7	240.4		571.5	1875.3		64.5	397.6
2016	14-Dec-16	2	451.9	196.8		571.1	1890.2		76.8	418.6
2016	14-Dec-16	3	301.2	147.8		574	1899.6		82.8	419.5
2016	14-Dec-16	4	308.4	150.4		663	1893.3		93.1	415.9
2016	14-Dec-16	5	308.9	161.7		981.8	1898.6		96.4	422.6
2016	14-Dec-16	6	586.1	326.4		1154.2	1911.3		125.4	420.9
2016	14-Dec-16	7	640.4	408.2		1212.8	1957.2		134.7	425
2016	14-Dec-16	8	654.8	417.5		1196.7	2006.8		85.1	418.8
2016	14-Dec-16	9	385	310.5		1191.5	1882.4		74.8	400.6
2016	14-Dec-16	10	254.5	237.4		1192.1	1895.8		71.8	396.9
2016	14-Dec-16	11	195.7	197.1		1199.1	1775.4		106.6	397.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	14-Dec-16	12	231.3	174		1207.3	1861.7		166.1	380.7
2016	14-Dec-16	13	202.7	150.9		1214.6	1815.5		270.4	378.7
2016	14-Dec-16	14	212.9	145.3		1218.5	1891.1		343.1	383.4
2016	14-Dec-16	15	194.2	136.2		1225.7	1885.5		485.1	369.8
2016	14-Dec-16	16	198.4	130.4		1228.7	1905.1		747.7	376.9
2016	14-Dec-16	17	239.9	163.7		1206.4	1990.5		618.2	388.5
2016	14-Dec-16	18	403.8	274.5		1086.5	2049.1		654.7	412.2
2016	14-Dec-16	19	439.7	363.6		921.7	2050.7		671.8	433.3
2016	14-Dec-16	20	463.2	324.1		699.5	1979.4		668.1	431.2
2016	14-Dec-16	21	392.5	308.9		630.4	1936.4		664.4	410.4
2016	14-Dec-16	22	378.3	264.2		607.6	1899.2		659.3	417.3
2016	14-Dec-16	23	288.1	178.4		608.4	1895.7		645.9	437
2016	15-Dec-16	0	254.5	125.4		603.8	1907.2		684.8	433.5
2016	15-Dec-16	1	235.3	127.8		589.8	1908		697	421.1
2016	15-Dec-16	2	242	129.6		594.6	1898.9		743.2	406.3
2016	15-Dec-16	3	232.2	134.4		594.2	1921.1		877	395.2
2016	15-Dec-16	4	248.4	141.2		582.9	2272.4		331.6	380.3
2016	15-Dec-16	5	242.6	155.9		582.2	2749.6		272	386.4
2016	15-Dec-16	6	325	165.6		583.9	2966.6		294.3	434.7
2016	15-Dec-16	7	709.5	431		582.8	3006.2		306.8	704.9
2016	15-Dec-16	8	1254.6	750.1		582.7	3182.3		1133.2	524.8
2016	15-Dec-16	9	872.5	1038		583.1	3211.2		1163.8	453.6
2016	15-Dec-16	10	809.5	1030.1		611.7	3257.4		1054.1	549
2016	15-Dec-16	11	760.9	1058		670.6	3284.1		1299.1	882.4
2016	15-Dec-16	12	833.9	1054.4		596.2	3290.6		1175.1	737.2
2016	15-Dec-16	13	669	871.7		567.7	3304.4		1148	517.3
2016	15-Dec-16	14	759	1070.3		567.5	3254.6		1058.7	510.7
2016	15-Dec-16	15	773.1	1075.5		581.3	3187.8		1093.2	676.9
2016	15-Dec-16	16	780.4	1094.3		579.4	3157.7		1158.2	717.2
2016	15-Dec-16	17	773.9	1067.3		632.2	3173.9		1499.1	1139
2016	15-Dec-16	18	777	1086.8		861.6	3203.5		1616.6	1071.6
2016	15-Dec-16	19	766.4	1089.8		1075.8	3235.7		1581.8	1087.6
2016	15-Dec-16	20	760.3	1090.2		1070.8	3242.6		1576.2	1050.2
2016	15-Dec-16	21	718.4	1088		1157.2	3236.9		1571.5	1093.6
2016	15-Dec-16	22	756	1045.6		1145.8	3282.7		1570.1	1100.1
2016	15-Dec-16	23	740	1104.2		1017	3402.1		1530.7	1000.3
2016	16-Dec-16	0	784	1112.9		744.2	3380		1212.1	644.2
2016	16-Dec-16	1	733.9	1121.7		743	3391.1		1149.8	897
2016	16-Dec-16	2	805.8	1120.1		728.7	3415.1		1151.8	992.7
2016	16-Dec-16	3	741	1127.2		727.7	3372.7		1295.5	853.2
2016	16-Dec-16	4	767.2	1121.9		715.2	3387		1492.5	851.1
2016	16-Dec-16	5	739.8	1111.4		720.2	3400.1		1515.7	1149.1
2016	16-Dec-16	6	726.2	1104.7		762.7	3430.6		1445.4	1297.9
2016	16-Dec-16	7	731.9	1051.3		985.7	3320.3		1514.7	1426.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	16-Dec-16	8	683.6	1015.3		1106.1	3399.4		1557.7	1096.1
2016	16-Dec-16	9	655.9	1017.7		1212.6	3433.7		1593.7	945
2016	16-Dec-16	10	697.8	1013.4		1196.7	3446.2		1570.9	987.9
2016	16-Dec-16	11	632.7	975.4		1109.3	3478.2		1570.9	1030.6
2016	16-Dec-16	12	587.5	900.6		1039.3	3325.5		1431.9	946.5
2016	16-Dec-16	13	563.9	853.6		977.5	2184.8		1570.9	1045.6
2016	16-Dec-16	14	630.8	962.9		886.7	2065.8		1221.8	915.1
2016	16-Dec-16	15	675.1	1061.3		691.9	2040.8		1096.9	888.4
2016	16-Dec-16	16	791.9	1092.5		670.5	2035.2		1221.8	1062.7
2016	16-Dec-16	17	772.6	1088.1		772.9	2054.1		1431.9	1131.5
2016	16-Dec-16	18	798.6	1024.6		664.6	2042.9		1221.8	831.1
2016	16-Dec-16	19	813.1	992.1		649.2	2042.1		1157.1	959.5
2016	16-Dec-16	20	843.6	1153		642.7	2366.7		852	866.6
2016	16-Dec-16	21	740.8	1114.8		641.9	2757.5		780.9	528.7
2016	16-Dec-16	22	593	1031.9		650.9	2804.6		759.3	385.9
2016	16-Dec-16	23	288.6	671.2		632.4	2390.5		726.6	378.8
2016	17-Dec-16	0	92.5	542.8		619.3	1809.7		171.68	322.7
2016	17-Dec-16	1	0.39	325.1		674.2	195.44			30.7
2016	17-Dec-16	2		220.4		611.4				
2016	17-Dec-16	3		105.7		631.2				
2016	17-Dec-16	4		81.8		620.2				
2016	17-Dec-16	5		100.1		267				
2016	17-Dec-16	6		134.2		0				
2016	17-Dec-16	7		287.1		0				
2016	17-Dec-16	8		464.3		0				
2016	17-Dec-16	9		585.4						
2016	17-Dec-16	10		592.1						
2016	17-Dec-16	11		637						
2016	17-Dec-16	12		551.6						
2016	17-Dec-16	13		477.1						
2016	17-Dec-16	14		307						
2016	17-Dec-16	15		244						
2016	17-Dec-16	16		162.9						
2016	17-Dec-16	17		200.6						
2016	17-Dec-16	18		248.9						
2016	17-Dec-16	19		227.7						
2016	17-Dec-16	20		166.4						
2016	17-Dec-16	21		108.1						
2016	17-Dec-16	22		88						
2016	17-Dec-16	23		84.8						
2016	18-Dec-16	0		86.4						
2016	18-Dec-16	1		97.2						
2016	18-Dec-16	2		87.9						
2016	18-Dec-16	3		88.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	18-Dec-16	4		93.1						
2016	18-Dec-16	5		96.8						
2016	18-Dec-16	6		103.3						
2016	18-Dec-16	7		117.2						
2016	18-Dec-16	8		125.3						
2016	18-Dec-16	9		205.8						
2016	18-Dec-16	10		322.2						
2016	18-Dec-16	11		330.8						
2016	18-Dec-16	12		334.9						
2016	18-Dec-16	13		274						
2016	18-Dec-16	14		246.3						0
2016	18-Dec-16	15		286.4						0
2016	18-Dec-16	16		379.7						0.4
2016	18-Dec-16	17		426.5						0
2016	18-Dec-16	18		481.1						0
2016	18-Dec-16	19		669.1						0
2016	18-Dec-16	20		651.5						0
2016	18-Dec-16	21		557.5						0
2016	18-Dec-16	22		360						6.4
2016	18-Dec-16	23		220.3						14.3
2016	19-Dec-16	0		117.1						50
2016	19-Dec-16	1		115.1						99.6
2016	19-Dec-16	2		114.2						169.2
2016	19-Dec-16	3		109.1						270.9
2016	19-Dec-16	4		211.1						382.8
2016	19-Dec-16	5		475.5						575.3
2016	19-Dec-16	6		711.3						807
2016	19-Dec-16	7		910.4						1101.3
2016	19-Dec-16	8		961.6						1070.8
2016	19-Dec-16	9		977.7						1113.2
2016	19-Dec-16	10		977.8						1062.8
2016	19-Dec-16	11		1003.7						1044.6
2016	19-Dec-16	12		1028.9						1061.4
2016	19-Dec-16	13		1026.9						806.1
2016	19-Dec-16	14		1006.7						507.3
2016	19-Dec-16	15		834.4						417
2016	19-Dec-16	16		734.2						400.5
2016	19-Dec-16	17		842.8						648.2
2016	19-Dec-16	18		882						664.3
2016	19-Dec-16	19		928.6						710.9
2016	19-Dec-16	20		991.6						564.3
2016	19-Dec-16	21		921.5						851.5
2016	19-Dec-16	22		824.8						647.8
2016	19-Dec-16	23		670.6						411.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	20-Dec-16	0		414.6						411.9
2016	20-Dec-16	1		242.5						405.7
2016	20-Dec-16	2		200						401.4
2016	20-Dec-16	3		122.2						391.8
2016	20-Dec-16	4		193.8						394.5
2016	20-Dec-16	5		361.2						624.8
2016	20-Dec-16	6		568.1						874.5
2016	20-Dec-16	7		840.5						1130.5
2016	20-Dec-16	8		959.8						1123.1
2016	20-Dec-16	9		1048						1095.9
2016	20-Dec-16	10		1078.6						1108.1
2016	20-Dec-16	11		918.4						1111.6
2016	20-Dec-16	12		881.8						1236.7
2016	20-Dec-16	13		862						954.4
2016	20-Dec-16	14		649.7						578.4
2016	20-Dec-16	15		515.5						400.2
2016	20-Dec-16	16		384.2						403.4
2016	20-Dec-16	17		408.6						422.4
2016	20-Dec-16	18		482.2						413.9
2016	20-Dec-16	19		619						392.3
2016	20-Dec-16	20		631.2						385.1
2016	20-Dec-16	21		591.3						387.2
2016	20-Dec-16	22		417.3						350.2
2016	20-Dec-16	23		334.1						361.8
2016	21-Dec-16	0		266.2						32.416
2016	21-Dec-16	1		171.5						
2016	21-Dec-16	2		124.7						
2016	21-Dec-16	3		122.9						
2016	21-Dec-16	4		133.3						
2016	21-Dec-16	5		224.2						
2016	21-Dec-16	6		537.6						
2016	21-Dec-16	7		831						
2016	21-Dec-16	8		1025.4						
2016	21-Dec-16	9		1124.8						
2016	21-Dec-16	10		1124.1						
2016	21-Dec-16	11		1128.6						
2016	21-Dec-16	12		896.1						
2016	21-Dec-16	13		615.9						
2016	21-Dec-16	14		444.7						
2016	21-Dec-16	15		389.5						
2016	21-Dec-16	16		219.1						
2016	21-Dec-16	17		164						
2016	21-Dec-16	18		160.2						
2016	21-Dec-16	19		196.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	21-Dec-16	20		177.8						
2016	21-Dec-16	21		140.3						
2016	21-Dec-16	22		114.9						
2016	21-Dec-16	23		115.6						
2016	22-Dec-16	0		127.3						
2016	22-Dec-16	1		129.7						
2016	22-Dec-16	2		121.9						
2016	22-Dec-16	3		115.1						
2016	22-Dec-16	4		115.3						
2016	22-Dec-16	5		135.1						
2016	22-Dec-16	6		201.6						
2016	22-Dec-16	7		486.3						
2016	22-Dec-16	8		589.3						
2016	22-Dec-16	9		506.7						
2016	22-Dec-16	10		478.4						
2016	22-Dec-16	11		458.1						
2016	22-Dec-16	12		381.9						
2016	22-Dec-16	13		299						
2016	22-Dec-16	14		236.4						
2016	22-Dec-16	15		210						
2016	22-Dec-16	16		198.1						
2016	22-Dec-16	17		227						
2016	22-Dec-16	18		214.7						
2016	22-Dec-16	19		227.7						
2016	22-Dec-16	20		224						
2016	22-Dec-16	21		221.8						
2016	22-Dec-16	22		160.7						
2016	22-Dec-16	23		130.6						
2016	23-Dec-16	0		123.8						
2016	23-Dec-16	1		120.4						
2016	23-Dec-16	2		117.6						
2016	23-Dec-16	3		123						
2016	23-Dec-16	4		169.2						
2016	23-Dec-16	5		300.9						
2016	23-Dec-16	6		700.8						
2016	23-Dec-16	7		1036.9						
2016	23-Dec-16	8		1014.2						
2016	23-Dec-16	9		992.2						
2016	23-Dec-16	10		826						
2016	23-Dec-16	11		693.6						
2016	23-Dec-16	12		498.1						
2016	23-Dec-16	13		431.2						
2016	23-Dec-16	14		363.4						
2016	23-Dec-16	15		529.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	23-Dec-16	16		1028.1						
2016	23-Dec-16	17		1124.8						
2016	23-Dec-16	18		1014.3						
2016	23-Dec-16	19		781.6						
2016	23-Dec-16	20		492.2						
2016	23-Dec-16	21		278						
2016	23-Dec-16	22		198.4						
2016	23-Dec-16	23		130.7						
2016	24-Dec-16	0		117.1						
2016	24-Dec-16	1		125.9						
2016	24-Dec-16	2		124.1						
2016	24-Dec-16	3		126.3						
2016	24-Dec-16	4		182.5						
2016	24-Dec-16	5		346.7						
2016	24-Dec-16	6		495.5						
2016	24-Dec-16	7		888.6						
2016	24-Dec-16	8		1069.7						
2016	24-Dec-16	9		1097.4						
2016	24-Dec-16	10		809.9						
2016	24-Dec-16	11		633.2						
2016	24-Dec-16	12		465.1						
2016	24-Dec-16	13		457.8						
2016	24-Dec-16	14		341.5						
2016	24-Dec-16	15		262.5						
2016	24-Dec-16	16		265.3						
2016	24-Dec-16	17		268						
2016	24-Dec-16	18		224.6						
2016	24-Dec-16	19		149.1						
2016	24-Dec-16	20		141.1						
2016	24-Dec-16	21		140.8						
2016	24-Dec-16	22		137						
2016	24-Dec-16	23		135.9						
2016	25-Dec-16	0		131.2						
2016	25-Dec-16	1		127.8						
2016	25-Dec-16	2		128.5		0				
2016	25-Dec-16	3		129.1		0				
2016	25-Dec-16	4		177.5		0				
2016	25-Dec-16	5		294.8		0				
2016	25-Dec-16	6		489.5		0				
2016	25-Dec-16	7		885.8		0				
2016	25-Dec-16	8		1065.6		0				
2016	25-Dec-16	9		1126		0				
2016	25-Dec-16	10		1128.7		0				
2016	25-Dec-16	11		1138.8		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	25-Dec-16	12		936.2		0				
2016	25-Dec-16	13		629.3		0				
2016	25-Dec-16	14		392.5		0				
2016	25-Dec-16	15		260.8		0				
2016	25-Dec-16	16		166.6		0				
2016	25-Dec-16	17		123.9		0				
2016	25-Dec-16	18		196.1		0				
2016	25-Dec-16	19		176.8		0				
2016	25-Dec-16	20		119.2		0				
2016	25-Dec-16	21		116.2		0				
2016	25-Dec-16	22		122.8		0				
2016	25-Dec-16	23		122.8		0				
2016	26-Dec-16	0		121.4		0				
2016	26-Dec-16	1		120		0				
2016	26-Dec-16	2		118.9		0				
2016	26-Dec-16	3		120.5		0				
2016	26-Dec-16	4		121		0				
2016	26-Dec-16	5		121.9		0				
2016	26-Dec-16	6		121.8		0				
2016	26-Dec-16	7		122.8		0				
2016	26-Dec-16	8		122.1		0				
2016	26-Dec-16	9		120.7		0				
2016	26-Dec-16	10		121.5		0				
2016	26-Dec-16	11		121.2		0				
2016	26-Dec-16	12		118.7		0				
2016	26-Dec-16	13		121.5		0				
2016	26-Dec-16	14		119.7		0				
2016	26-Dec-16	15		123.5						
2016	26-Dec-16	16		122.2						
2016	26-Dec-16	17		146.5						
2016	26-Dec-16	18		136						
2016	26-Dec-16	19		130.2						
2016	26-Dec-16	20		128						
2016	26-Dec-16	21		127.1						
2016	26-Dec-16	22		119.3						
2016	26-Dec-16	23		110.5						
2016	27-Dec-16	0		111.4						
2016	27-Dec-16	1		111.4						
2016	27-Dec-16	2		112.6						
2016	27-Dec-16	3		116.2						
2016	27-Dec-16	4		116.1						
2016	27-Dec-16	5		115.7						
2016	27-Dec-16	6		117.4						
2016	27-Dec-16	7		206.5						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	27-Dec-16	8		220.4						
2016	27-Dec-16	9		228.1						
2016	27-Dec-16	10		227.5						
2016	27-Dec-16	11		230.3						
2016	27-Dec-16	12		232.7						
2016	27-Dec-16	13		194.8						
2016	27-Dec-16	14		130.2						
2016	27-Dec-16	15		113.4						
2016	27-Dec-16	16		110						
2016	27-Dec-16	17		116.6						
2016	27-Dec-16	18		108.8						
2016	27-Dec-16	19		108.5						
2016	27-Dec-16	20		107.5						
2016	27-Dec-16	21		105.8						
2016	27-Dec-16	22		107.7						
2016	27-Dec-16	23		116.3						
2016	28-Dec-16	0		115.9						
2016	28-Dec-16	1		116.3						
2016	28-Dec-16	2		113.9						
2016	28-Dec-16	3		114.2						
2016	28-Dec-16	4		111.2						
2016	28-Dec-16	5		110.4						
2016	28-Dec-16	6		112.7						
2016	28-Dec-16	7		113						
2016	28-Dec-16	8		112.3						
2016	28-Dec-16	9		113.7						
2016	28-Dec-16	10		108.6						
2016	28-Dec-16	11		106.6						
2016	28-Dec-16	12		111.8						
2016	28-Dec-16	13		110.1						
2016	28-Dec-16	14		113.1						
2016	28-Dec-16	15		114						
2016	28-Dec-16	16		113						
2016	28-Dec-16	17		135.6						
2016	28-Dec-16	18		223.4						
2016	28-Dec-16	19		400.9						
2016	28-Dec-16	20		356.5						
2016	28-Dec-16	21		228.5						
2016	28-Dec-16	22		169.9						
2016	28-Dec-16	23		111.1						
2016	29-Dec-16	0		112.3						
2016	29-Dec-16	1		107.9						
2016	29-Dec-16	2		109.6						
2016	29-Dec-16	3		111.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	29-Dec-16	4		110.6						
2016	29-Dec-16	5		114						
2016	29-Dec-16	6		115.4						
2016	29-Dec-16	7		124.7						
2016	29-Dec-16	8		119.7						
2016	29-Dec-16	9		119						
2016	29-Dec-16	10		117.8						
2016	29-Dec-16	11		116.5						
2016	29-Dec-16	12		121.1						
2016	29-Dec-16	13		124						
2016	29-Dec-16	14		127.4						
2016	29-Dec-16	15		109.2						
2016	29-Dec-16	16		112.6						
2016	29-Dec-16	17		113.8						
2016	29-Dec-16	18		111.8						
2016	29-Dec-16	19		103.2						
2016	29-Dec-16	20		103.1						
2016	29-Dec-16	21		111.4						
2016	29-Dec-16	22		112.2						
2016	29-Dec-16	23		112						
2016	30-Dec-16	0		112.3						
2016	30-Dec-16	1		110.7						
2016	30-Dec-16	2		109.5						
2016	30-Dec-16	3		112.6						
2016	30-Dec-16	4		113.3						
2016	30-Dec-16	5		165.3						
2016	30-Dec-16	6		315.3						
2016	30-Dec-16	7		955.5						
2016	30-Dec-16	8		979.3						
2016	30-Dec-16	9		526.5						
2016	30-Dec-16	10		443.1						
2016	30-Dec-16	11		375.3						
2016	30-Dec-16	12		257.1						
2016	30-Dec-16	13		208.4						
2016	30-Dec-16	14		121.1						
2016	30-Dec-16	15		120.1						
2016	30-Dec-16	16		240.7						
2016	30-Dec-16	17		326.5						
2016	30-Dec-16	18		324.1						
2016	30-Dec-16	19		280.3						
2016	30-Dec-16	20		145.8						
2016	30-Dec-16	21		114.4						
2016	30-Dec-16	22		114.5						
2016	30-Dec-16	23		123.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2016	31-Dec-16	0		138.8						
2016	31-Dec-16	1		125.2						
2016	31-Dec-16	2		133.2						
2016	31-Dec-16	3		161.3						
2016	31-Dec-16	4		372.3						
2016	31-Dec-16	5		697.5						
2016	31-Dec-16	6		991.7						
2016	31-Dec-16	7		1089.4		0				
2016	31-Dec-16	8		1118.4		0				
2016	31-Dec-16	9		1144.4		0				
2016	31-Dec-16	10		991.5		0				
2016	31-Dec-16	11		841.9		0				
2016	31-Dec-16	12		593.6		0				
2016	31-Dec-16	13		506.7		0				
2016	31-Dec-16	14		476.9		0				
2016	31-Dec-16	15		475.8		0				
2016	31-Dec-16	16		433.8		0				
2016	31-Dec-16	17		550.2		0				
2016	31-Dec-16	18		861.1		0				
2016	31-Dec-16	19		691		0				
2016	31-Dec-16	20		412.2		0				
2016	31-Dec-16	21		166.5		0				
2016	31-Dec-16	22		118.3		0				
2016	31-Dec-16	23		121.7		0				
2017	1-Jan-17	0		117.8						
2017	1-Jan-17	1		128.9						
2017	1-Jan-17	2		369.1						
2017	1-Jan-17	3		628.2						
2017	1-Jan-17	4		771.8						
2017	1-Jan-17	5		792						
2017	1-Jan-17	6		785.3						
2017	1-Jan-17	7		812.6						
2017	1-Jan-17	8		733.7						
2017	1-Jan-17	9		757.4						
2017	1-Jan-17	10		806.5						
2017	1-Jan-17	11		811.7						
2017	1-Jan-17	12		517.4						
2017	1-Jan-17	13		387.9						
2017	1-Jan-17	14		194.6						
2017	1-Jan-17	15		97.3						
2017	1-Jan-17	16		94.5						
2017	1-Jan-17	17		95.7						
2017	1-Jan-17	18		94.5						
2017	1-Jan-17	19		88.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	1-Jan-17	20		87.8						
2017	1-Jan-17	21		90.7						
2017	1-Jan-17	22		91						
2017	1-Jan-17	23		91						
2017	2-Jan-17	0		91.3						
2017	2-Jan-17	1		90.5						
2017	2-Jan-17	2		88.1						
2017	2-Jan-17	3		90						
2017	2-Jan-17	4		91						
2017	2-Jan-17	5		89.8						
2017	2-Jan-17	6		91.3						
2017	2-Jan-17	7		93						
2017	2-Jan-17	8		90.6						
2017	2-Jan-17	9		94						
2017	2-Jan-17	10		137.8						
2017	2-Jan-17	11		142.1						
2017	2-Jan-17	12		217						
2017	2-Jan-17	13		238.8						
2017	2-Jan-17	14		228.3						
2017	2-Jan-17	15		216.9						
2017	2-Jan-17	16		240.5						
2017	2-Jan-17	17		325						
2017	2-Jan-17	18		551.5						
2017	2-Jan-17	19		903.2						
2017	2-Jan-17	20		937.5						
2017	2-Jan-17	21		825						
2017	2-Jan-17	22		465.5						
2017	2-Jan-17	23		171.4						
2017	3-Jan-17	0		94.9						
2017	3-Jan-17	1		95.2						
2017	3-Jan-17	2		92.2						
2017	3-Jan-17	3		93.9						
2017	3-Jan-17	4		102.8						
2017	3-Jan-17	5		120.5						
2017	3-Jan-17	6		265.5						
2017	3-Jan-17	7		628.2						
2017	3-Jan-17	8		830.8						
2017	3-Jan-17	9		1052.2						
2017	3-Jan-17	10		1163.3						
2017	3-Jan-17	11		1080.1						
2017	3-Jan-17	12		844.4						
2017	3-Jan-17	13		680						
2017	3-Jan-17	14		612.9						
2017	3-Jan-17	15		480.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	3-Jan-17	16		450.6						
2017	3-Jan-17	17		385.1						
2017	3-Jan-17	18		342.6						
2017	3-Jan-17	19		396.4						
2017	3-Jan-17	20		327.8						
2017	3-Jan-17	21		311						
2017	3-Jan-17	22		203.7						
2017	3-Jan-17	23		136.2						
2017	4-Jan-17	0		137.8						
2017	4-Jan-17	1		142						
2017	4-Jan-17	2		132.5						
2017	4-Jan-17	3		139.6						
2017	4-Jan-17	4		152.6						
2017	4-Jan-17	5		146						
2017	4-Jan-17	6		270.2						
2017	4-Jan-17	7		825						
2017	4-Jan-17	8		1252.1						
2017	4-Jan-17	9		1155.3						
2017	4-Jan-17	10		702.7						
2017	4-Jan-17	11		560.3						
2017	4-Jan-17	12		403.9						
2017	4-Jan-17	13		342.1						
2017	4-Jan-17	14		272.2						
2017	4-Jan-17	15		209.2						
2017	4-Jan-17	16		346.8						
2017	4-Jan-17	17		489.1						
2017	4-Jan-17	18		781.3						
2017	4-Jan-17	19		1334.9						
2017	4-Jan-17	20		1320.9						
2017	4-Jan-17	21		1120.6						
2017	4-Jan-17	22		778.9						
2017	4-Jan-17	23		422.1						
2017	5-Jan-17	0		202.5						
2017	5-Jan-17	1		154.1						
2017	5-Jan-17	2		176.8						
2017	5-Jan-17	3		167.8						
2017	5-Jan-17	4		240.4						
2017	5-Jan-17	5		669.6						
2017	5-Jan-17	6		1130.7						
2017	5-Jan-17	7		1176.8		0				
2017	5-Jan-17	8		1223.9		0				
2017	5-Jan-17	9		1246.4		0				18.7
2017	5-Jan-17	10		1245.9		0				0.2
2017	5-Jan-17	11		1436.2		0				0.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	5-Jan-17	12		1196.2		0				0
2017	5-Jan-17	13		1312.2		0				0
2017	5-Jan-17	14		1382.7		0				0
2017	5-Jan-17	15		998.3		0				0
2017	5-Jan-17	16		667.5		0				0
2017	5-Jan-17	17		620.3		0				0
2017	5-Jan-17	18		752.4		0				0
2017	5-Jan-17	19		1037.1		0				0
2017	5-Jan-17	20		1205.5		0				0
2017	5-Jan-17	21		1217.3		0				0.6
2017	5-Jan-17	22		1114.3		0				23.2
2017	5-Jan-17	23		644.7		0				53.8
2017	6-Jan-17	0		375.8		0				95.6
2017	6-Jan-17	1		246.6		0				193.3
2017	6-Jan-17	2		124.4		0				335.9
2017	6-Jan-17	3		116.4		0				505.7
2017	6-Jan-17	4		115.2		0				551.4
2017	6-Jan-17	5		124.5		0				455.1
2017	6-Jan-17	6		126.9		0				413.2
2017	6-Jan-17	7		128.9		0				465.4
2017	6-Jan-17	8		254.4		0				386.2
2017	6-Jan-17	9		360.4		0				512.2
2017	6-Jan-17	10		381.4		0				411.2
2017	6-Jan-17	11		432.9		0				435.7
2017	6-Jan-17	12		265.4		0				387
2017	6-Jan-17	13		222.1		0				406.4
2017	6-Jan-17	14		248.6		0				503.4
2017	6-Jan-17	15		475.2		0				619.1
2017	6-Jan-17	16		737		0				718.2
2017	6-Jan-17	17		869		0				619.6
2017	6-Jan-17	18		835.8		0				493
2017	6-Jan-17	19		842.5		0				493.4
2017	6-Jan-17	20		964.4		0				606.5
2017	6-Jan-17	21		988.6		0				523.1
2017	6-Jan-17	22		816.6		0				457.5
2017	6-Jan-17	23		870.6		0				450.9
2017	7-Jan-17	0		1019.7		0				588
2017	7-Jan-17	1		1097.8		0				538
2017	7-Jan-17	2		1073.5		0				507.3
2017	7-Jan-17	3		1079.6		0				472.1
2017	7-Jan-17	4		1003		0				443.9
2017	7-Jan-17	5		1027		0				468.3
2017	7-Jan-17	6		1097.5		0				568.3
2017	7-Jan-17	7		1226.1		0				763.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Jan-17	8		1279.3		0				908.2
2017	7-Jan-17	9		1345.7		0				1051.2
2017	7-Jan-17	10		1375.2		0				1025
2017	7-Jan-17	11		1389.3		0				1050.1
2017	7-Jan-17	12		1409.5		0				1108.1
2017	7-Jan-17	13		1412.6		0				1061.5
2017	7-Jan-17	14		1349.9		0				1026
2017	7-Jan-17	15		1129.5		0	0			1011.4
2017	7-Jan-17	16		1090.7		0	0			914.3
2017	7-Jan-17	17		1068.1		0	0			994.3
2017	7-Jan-17	18		1044		0	0.8			1049.6
2017	7-Jan-17	19		1036.6		0	1.9			1068.4
2017	7-Jan-17	20		1055.9		0	28.8			1056
2017	7-Jan-17	21		1060.8		0	121.9			1049.3
2017	7-Jan-17	22		1077.3		0	275			1107.2
2017	7-Jan-17	23		1076.4		0	382.7			837.6
2017	8-Jan-17	0		1090.4		0	414.9			769.7
2017	8-Jan-17	1	0	1156.6		0	429.3			1137
2017	8-Jan-17	2	0	1207.3		0	429.2			1142.8
2017	8-Jan-17	3	0	1259		0	437.5			1096.3
2017	8-Jan-17	4	0	1227		0	439.2			1065.6
2017	8-Jan-17	5	0	1231.8		0	442.5			1158.4
2017	8-Jan-17	6	0	1257.4		0	440.6			1326.2
2017	8-Jan-17	7	0	1238.5		0	438			1184.2
2017	8-Jan-17	8	0	1215.6		0	432.8			1133.2
2017	8-Jan-17	9	0	1241.8		0	474.9			1066.8
2017	8-Jan-17	10	0	1189.5		0	489.8			1058.4
2017	8-Jan-17	11	0	1266.4		0	479.1			1058.8
2017	8-Jan-17	12	0	1195.6		0	792.2			1072.4
2017	8-Jan-17	13	0	1267.2		0	1523.6			1071.3
2017	8-Jan-17	14	0	1176.8		0	1566.5			1072.3
2017	8-Jan-17	15	0	1296		0	1919.6	0.038		1065.6
2017	8-Jan-17	16	0	1189		0	2361.8	0.062		1041.3
2017	8-Jan-17	17	0	1326.1		0	2891.1	0.07		1096.4
2017	8-Jan-17	18	0	1209.7		0	3247	0.093		1141.4
2017	8-Jan-17	19	2.1	1301.5		0	3464.7	0.094		1108.7
2017	8-Jan-17	20	28.6	1283.9		0	3465.7	0.083		1113.1
2017	8-Jan-17	21	41.4	1216.9			3416.4	0.062	0	1128.6
2017	8-Jan-17	22	54.4	1349.2			3431.7	0.047	0	1140.6
2017	8-Jan-17	23	173.3	1307.3			3420.6	0.047	0.3	1175.3
2017	9-Jan-17	0	201.2	1255.1			3490.5	0.047	0	1144.8
2017	9-Jan-17	1	266.1	1232			3504.9	0.047	0	1143.4
2017	9-Jan-17	2	282.8	1405.8			3484.5	0.047	0	1193.9
2017	9-Jan-17	3	282.9	1344.7			3406.6	87.689	0	1103.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	9-Jan-17	4	426.7	1283.4			3424.4	591.6	0	1044.6
2017	9-Jan-17	5	314.1	1256.2		0	3380.4	716.3	0	1043.2
2017	9-Jan-17	6	416	1204		0	3457.4	637.56	0	1065.2
2017	9-Jan-17	7	554.6	1370.2		0	3467.8		0	1085.4
2017	9-Jan-17	8	790.8	1171.7		0	3574.4		3.3	1115.2
2017	9-Jan-17	9	1555.5	1184.2		0	3526		6.2	1101.8
2017	9-Jan-17	10	1536.1	1177.3		0	3468		5.3	1075.3
2017	9-Jan-17	11	1555.6	1061.8		0	3288.6		33.3	1089.7
2017	9-Jan-17	12	1565.4	1221.1		0	3106.9		61.4	1093.9
2017	9-Jan-17	13	1535.2	1085.3		0	3160		37.8	1058.3
2017	9-Jan-17	14	1514.2	1057.4		0	3200.4		21.2	1061.8
2017	9-Jan-17	15	1477.2	1177.7		0	3483.2		50.8	1041
2017	9-Jan-17	16	1472.6	1032.8		0	3609		49.7	1057.4
2017	9-Jan-17	17	1285.7	1011.8		0	3635.1		49.8	475.3
2017	9-Jan-17	18	1139.7	900.2		0	3642.2		82.2	476.1
2017	9-Jan-17	19	1157.7	939.3		0	3650.6		134.9	763.2
2017	9-Jan-17	20	1335.4	1056.5		0	3649.7		162.8	1042.3
2017	9-Jan-17	21	1345.8	1057.6		0	3633.7		316.3	1074.4
2017	9-Jan-17	22	1357.5	1053.6		0	3632.7		718.1	1086.5
2017	9-Jan-17	23	1352.7	1062.8		0	3613.3		1019.5	1089.5
2017	10-Jan-17	0	1353	1005.5		0	3442.3		1009.1	973.1
2017	10-Jan-17	1	1273.5	1067.8		0	3202		1026.5	805.4
2017	10-Jan-17	2	1269	915.3		0	2988.8		977.5	661.7
2017	10-Jan-17	3	1084	772.6		0	2743.1		974.7	482.3
2017	10-Jan-17	4	807.8	749.7		0	2502.3		1037.8	534.2
2017	10-Jan-17	5	893.5	824		0	2684.1		1118.7	494
2017	10-Jan-17	6	1097.4	830.5		0	3144		1305.1	801.7
2017	10-Jan-17	7	1241.8	884.2		0	3402.5		1402.2	1102.9
2017	10-Jan-17	8	1204	871.9		0	3587		1279.6	1233.3
2017	10-Jan-17	9	1171.1	878.6		0	3580		1106.4	1107.9
2017	10-Jan-17	10	1218.2	871		0	3588.5		1080.3	936
2017	10-Jan-17	11	864.1	748.2		0	3495.7		1072.7	734.1
2017	10-Jan-17	12	722.1	283.8		0	3118.4		1072.7	692.3
2017	10-Jan-17	13	735.1	136.7		0	2765.4		1075.256	666.3
2017	10-Jan-17	14	534.9	104.1		0	2645.3		1136.3	585.5
2017	10-Jan-17	15	467.6	279.5		0	2200.6		1274.9	572.2
2017	10-Jan-17	16	374.6	272.6		0	2009.2		1210.4	540.6
2017	10-Jan-17	17	535.5	412.5		0	2128.2		991.4	676.9
2017	10-Jan-17	18	669.3	441.3		0	2343.8		1040	705.5
2017	10-Jan-17	19	426.3	285.5		0	2037.1		900	404.9
2017	10-Jan-17	20	316.9	211.8		0	1322		653.8	489.4
2017	10-Jan-17	21	181.7	152		0	11.706		102.039	18.75
2017	10-Jan-17	22	159.9	134.9		0				
2017	10-Jan-17	23	140	110.8		0				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	11-Jan-17	0	137.5	108		0				
2017	11-Jan-17	1	53.5	104.9		0				
2017	11-Jan-17	2	29.7	99.2		0				
2017	11-Jan-17	3		102.8						
2017	11-Jan-17	4		103.1						
2017	11-Jan-17	5		135.9		0				
2017	11-Jan-17	6		247.5		0				
2017	11-Jan-17	7		655.6		0				
2017	11-Jan-17	8		936.7		0				
2017	11-Jan-17	9		862.3		0				
2017	11-Jan-17	10		409						
2017	11-Jan-17	11		287.5						
2017	11-Jan-17	12		134						
2017	11-Jan-17	13		80						
2017	11-Jan-17	14		61.1						
2017	11-Jan-17	15		122.2						
2017	11-Jan-17	16		332						
2017	11-Jan-17	17		389.9						
2017	11-Jan-17	18		410.4						
2017	11-Jan-17	19		398.4						
2017	11-Jan-17	20		241.1						
2017	11-Jan-17	21		137.6						
2017	11-Jan-17	22		83.4						
2017	11-Jan-17	23		60.8						
2017	12-Jan-17	0		64.7						
2017	12-Jan-17	1		65.9						
2017	12-Jan-17	2		60						
2017	12-Jan-17	3		64.1						
2017	12-Jan-17	4		66.7						
2017	12-Jan-17	5		69.4						
2017	12-Jan-17	6		73.4						
2017	12-Jan-17	7		86.4						
2017	12-Jan-17	8		73.9						
2017	12-Jan-17	9		79.3						
2017	12-Jan-17	10		77.8						
2017	12-Jan-17	11		109.4						
2017	12-Jan-17	12		82.2						
2017	12-Jan-17	13		81.1						
2017	12-Jan-17	14		82						
2017	12-Jan-17	15		77.6						
2017	12-Jan-17	16		65.4						
2017	12-Jan-17	17		74.6						
2017	12-Jan-17	18		85.5						
2017	12-Jan-17	19		80						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	12-Jan-17	20		80.2						
2017	12-Jan-17	21		85.2						
2017	12-Jan-17	22		76.2						
2017	12-Jan-17	23		74.8						
2017	13-Jan-17	0		72.9						
2017	13-Jan-17	1		78.1						
2017	13-Jan-17	2		76.7						
2017	13-Jan-17	3		79.8						
2017	13-Jan-17	4		80						
2017	13-Jan-17	5		81.3						
2017	13-Jan-17	6		73.8						
2017	13-Jan-17	7		83.6						
2017	13-Jan-17	8		121.3						
2017	13-Jan-17	9		117						
2017	13-Jan-17	10		100.8						
2017	13-Jan-17	11		88.2						
2017	13-Jan-17	12		84.3						
2017	13-Jan-17	13		81.5						
2017	13-Jan-17	14		84.1						
2017	13-Jan-17	15		101.3						
2017	13-Jan-17	16		164.1						
2017	13-Jan-17	17		298.8						
2017	13-Jan-17	18		367.4						
2017	13-Jan-17	19		369						
2017	13-Jan-17	20		297.2						
2017	13-Jan-17	21		144.6						
2017	13-Jan-17	22		87.4						
2017	13-Jan-17	23		93.7						
2017	14-Jan-17	0		91						
2017	14-Jan-17	1		79.5						
2017	14-Jan-17	2		80.4						
2017	14-Jan-17	3		75.3						
2017	14-Jan-17	4		80.2						
2017	14-Jan-17	5		86.1						
2017	14-Jan-17	6		73.7						
2017	14-Jan-17	7		79.4						
2017	14-Jan-17	8		79.4						
2017	14-Jan-17	9		70.6						
2017	14-Jan-17	10		78.3						
2017	14-Jan-17	11		92.6						
2017	14-Jan-17	12		114.8						
2017	14-Jan-17	13		127.1						
2017	14-Jan-17	14		101.6						
2017	14-Jan-17	15		99.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	14-Jan-17	16		105.5						
2017	14-Jan-17	17		145						
2017	14-Jan-17	18		216.6						
2017	14-Jan-17	19		227.5						
2017	14-Jan-17	20		277.7						
2017	14-Jan-17	21		198.4						
2017	14-Jan-17	22		102.7						
2017	14-Jan-17	23		94.4						
2017	15-Jan-17	0		94.8						
2017	15-Jan-17	1		95.3						
2017	15-Jan-17	2		95.8						
2017	15-Jan-17	3		90.7						
2017	15-Jan-17	4		96.7						
2017	15-Jan-17	5		89.7						
2017	15-Jan-17	6		79.9						
2017	15-Jan-17	7		96.2						
2017	15-Jan-17	8		92.1						
2017	15-Jan-17	9		93.5						
2017	15-Jan-17	10		87.4						
2017	15-Jan-17	11		92.3						
2017	15-Jan-17	12		92.8						
2017	15-Jan-17	13		104.4						
2017	15-Jan-17	14		102.1						
2017	15-Jan-17	15		92.4						
2017	15-Jan-17	16		93.3						
2017	15-Jan-17	17		106.5						
2017	15-Jan-17	18		173.5						
2017	15-Jan-17	19		89.7						
2017	15-Jan-17	20		102.1						
2017	15-Jan-17	21		82.6						
2017	15-Jan-17	22		88.1						
2017	15-Jan-17	23		86.5						
2017	16-Jan-17	0		86.7						
2017	16-Jan-17	1		90.7						
2017	16-Jan-17	2		79.1						
2017	16-Jan-17	3		79.1						
2017	16-Jan-17	4		79.5						
2017	16-Jan-17	5		88.5						
2017	16-Jan-17	6		78.7						
2017	16-Jan-17	7		126.2		0				
2017	16-Jan-17	8		170.8		0				
2017	16-Jan-17	9		305.6		0				
2017	16-Jan-17	10		441.2		0				
2017	16-Jan-17	11		417.1		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	16-Jan-17	12		628.4		0				
2017	16-Jan-17	13		631.8		0				
2017	16-Jan-17	14		636.5		0				
2017	16-Jan-17	15		685.9		0				
2017	16-Jan-17	16		519.8		0				
2017	16-Jan-17	17		914.2		0				
2017	16-Jan-17	18		1057.4		0				
2017	16-Jan-17	19		792		0				
2017	16-Jan-17	20		912.5		0				
2017	16-Jan-17	21		686.7		0				
2017	16-Jan-17	22		629.2		0				
2017	16-Jan-17	23		135.5		0				
2017	17-Jan-17	0		107.4		0				
2017	17-Jan-17	1		82.4		0				
2017	17-Jan-17	2		74.1		0				
2017	17-Jan-17	3		105.9		0				
2017	17-Jan-17	4		117.7		0				
2017	17-Jan-17	5		454.6		0				
2017	17-Jan-17	6		963.7		0				
2017	17-Jan-17	7		852.5		0				
2017	17-Jan-17	8		802.7		0				
2017	17-Jan-17	9		798.2						
2017	17-Jan-17	10		792.3						
2017	17-Jan-17	11		1549.6						
2017	17-Jan-17	12		1824.9						
2017	17-Jan-17	13		829						
2017	17-Jan-17	14		928.8						
2017	17-Jan-17	15		982.9						
2017	17-Jan-17	16		1034.2						
2017	17-Jan-17	17		1046.5						
2017	17-Jan-17	18		1188.2						
2017	17-Jan-17	19		1092.7						
2017	17-Jan-17	20		1093.5						
2017	17-Jan-17	21		1032.4						
2017	17-Jan-17	22		708.4						
2017	17-Jan-17	23		461.9						
2017	18-Jan-17	0		258.3						
2017	18-Jan-17	1		153.5						
2017	18-Jan-17	2		103.5						
2017	18-Jan-17	3		102.6						
2017	18-Jan-17	4		104.1						
2017	18-Jan-17	5		95						
2017	18-Jan-17	6		87.6						
2017	18-Jan-17	7		112.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Jan-17	8		141.9						
2017	18-Jan-17	9		210.9						
2017	18-Jan-17	10		213.7						
2017	18-Jan-17	11		150.7						
2017	18-Jan-17	12		121.4						
2017	18-Jan-17	13		96.1						
2017	18-Jan-17	14		91.6						
2017	18-Jan-17	15		91.6						
2017	18-Jan-17	16		91.5						
2017	18-Jan-17	17		122.3						
2017	18-Jan-17	18		218.4						
2017	18-Jan-17	19		341.6						
2017	18-Jan-17	20		555.1						
2017	18-Jan-17	21		600.5						
2017	18-Jan-17	22		553.2						
2017	18-Jan-17	23		373.6						
2017	19-Jan-17	0		209						
2017	19-Jan-17	1		114.1						
2017	19-Jan-17	2		89.9						
2017	19-Jan-17	3		91						
2017	19-Jan-17	4		106.9						
2017	19-Jan-17	5		214.2						
2017	19-Jan-17	6		339.3						
2017	19-Jan-17	7		516.1						
2017	19-Jan-17	8		496.8						
2017	19-Jan-17	9		493.1						
2017	19-Jan-17	10		392.8						
2017	19-Jan-17	11		315.3						
2017	19-Jan-17	12		244.5						
2017	19-Jan-17	13		199						
2017	19-Jan-17	14		149.3						
2017	19-Jan-17	15		111.2						
2017	19-Jan-17	16		105.7						
2017	19-Jan-17	17		113.5						
2017	19-Jan-17	18		219.2						
2017	19-Jan-17	19		346.8						
2017	19-Jan-17	20		539.3						
2017	19-Jan-17	21		589.9						
2017	19-Jan-17	22		477.5						
2017	19-Jan-17	23		287.7						
2017	20-Jan-17	0		164.1						
2017	20-Jan-17	1		102.7						
2017	20-Jan-17	2		97.3						
2017	20-Jan-17	3		99.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	20-Jan-17	4		121.7						
2017	20-Jan-17	5		230.8						
2017	20-Jan-17	6		338.7						
2017	20-Jan-17	7		366.8						
2017	20-Jan-17	8		375.9						
2017	20-Jan-17	9		584						
2017	20-Jan-17	10		633						
2017	20-Jan-17	11		416.1						
2017	20-Jan-17	12		217.3						
2017	20-Jan-17	13		218						
2017	20-Jan-17	14		125.8						
2017	20-Jan-17	15		237.7						
2017	20-Jan-17	16		243.6						
2017	20-Jan-17	17		237						
2017	20-Jan-17	18		237.8						
2017	20-Jan-17	19		172						
2017	20-Jan-17	20		91.7						
2017	20-Jan-17	21		76.7						
2017	20-Jan-17	22		73.3						
2017	20-Jan-17	23		71.1						
2017	21-Jan-17	0		71.1						
2017	21-Jan-17	1		70.8						
2017	21-Jan-17	2		72.4						
2017	21-Jan-17	3		71.1						
2017	21-Jan-17	4		70.9						
2017	21-Jan-17	5		72.5						
2017	21-Jan-17	6		70.8						
2017	21-Jan-17	7		73.4						
2017	21-Jan-17	8		70.2						
2017	21-Jan-17	9		73						
2017	21-Jan-17	10		75						
2017	21-Jan-17	11		72						
2017	21-Jan-17	12		73						
2017	21-Jan-17	13		73.2						
2017	21-Jan-17	14		72.3						
2017	21-Jan-17	15		74.1						
2017	21-Jan-17	16		75.1						
2017	21-Jan-17	17		91.4						
2017	21-Jan-17	18		136.5						
2017	21-Jan-17	19		112.4						
2017	21-Jan-17	20		82.7						
2017	21-Jan-17	21		83.7						
2017	21-Jan-17	22		85.3						
2017	21-Jan-17	23		86.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	22-Jan-17	0		86.8						
2017	22-Jan-17	1		84.8						
2017	22-Jan-17	2		86.1						
2017	22-Jan-17	3		87.5						
2017	22-Jan-17	4		87.5						
2017	22-Jan-17	5		89						
2017	22-Jan-17	6		75.8						
2017	22-Jan-17	7		82.7						
2017	22-Jan-17	8		80.3						
2017	22-Jan-17	9		82.9						
2017	22-Jan-17	10		82.3						
2017	22-Jan-17	11		81.9						
2017	22-Jan-17	12		82.9						
2017	22-Jan-17	13		85.6						
2017	22-Jan-17	14		92.5						
2017	22-Jan-17	15		98.7						
2017	22-Jan-17	16		168.2						
2017	22-Jan-17	17		267.4						
2017	22-Jan-17	18		608.3						
2017	22-Jan-17	19		748.3						
2017	22-Jan-17	20		626.4						
2017	22-Jan-17	21		375.8						
2017	22-Jan-17	22		226.3						
2017	22-Jan-17	23		137.1						
2017	23-Jan-17	0		81.6						
2017	23-Jan-17	1		79.3						
2017	23-Jan-17	2		76.3						
2017	23-Jan-17	3		74.9						
2017	23-Jan-17	4		74.2						
2017	23-Jan-17	5		68.1						
2017	23-Jan-17	6		100.7						
2017	23-Jan-17	7		309.7						
2017	23-Jan-17	8		393.7						
2017	23-Jan-17	9		391						
2017	23-Jan-17	10		287.5						
2017	23-Jan-17	11		260.3						0
2017	23-Jan-17	12		251.5						0.3
2017	23-Jan-17	13		198.7						0.6
2017	23-Jan-17	14		175.3						0
2017	23-Jan-17	15		152.1						0
2017	23-Jan-17	16		165.2						0
2017	23-Jan-17	17		274.5						0
2017	23-Jan-17	18		340.4						0
2017	23-Jan-17	19		240.8						0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	23-Jan-17	20		180.4						0
2017	23-Jan-17	21		115.3						0
2017	23-Jan-17	22		113.6						0
2017	23-Jan-17	23		114.3						3
2017	24-Jan-17	0		114.8						44.9
2017	24-Jan-17	1		116						182.8
2017	24-Jan-17	2		109						386.4
2017	24-Jan-17	3		109.6						537.2
2017	24-Jan-17	4		110						855.3
2017	24-Jan-17	5		113						849.2
2017	24-Jan-17	6		184.5						1033.7
2017	24-Jan-17	7		526.2						1067.4
2017	24-Jan-17	8		769.8						1004.4
2017	24-Jan-17	9		608						724
2017	24-Jan-17	10		533.2						494.4
2017	24-Jan-17	11		433.3						466.7
2017	24-Jan-17	12		348.1						471.7
2017	24-Jan-17	13		340.1						447.9
2017	24-Jan-17	14		297.9						446.2
2017	24-Jan-17	15		346.6						458.7
2017	24-Jan-17	16		441.8						538.1
2017	24-Jan-17	17		865.3						845.8
2017	24-Jan-17	18		845.2						1005.6
2017	24-Jan-17	19		439.2						788.6
2017	24-Jan-17	20		226.5						725.4
2017	24-Jan-17	21		160.9						523.3
2017	24-Jan-17	22		86.9						520.8
2017	24-Jan-17	23		83.7						485
2017	25-Jan-17	0		80.6						169.83
2017	25-Jan-17	1		79.6						
2017	25-Jan-17	2		79.4						
2017	25-Jan-17	3		78.8						
2017	25-Jan-17	4		75.8						
2017	25-Jan-17	5		85						
2017	25-Jan-17	6		137.9						
2017	25-Jan-17	7		177.6						
2017	25-Jan-17	8		154.8						
2017	25-Jan-17	9		130						
2017	25-Jan-17	10		75.9						
2017	25-Jan-17	11		70						
2017	25-Jan-17	12		69.2						
2017	25-Jan-17	13		74.9						
2017	25-Jan-17	14		78.3						
2017	25-Jan-17	15		77.6						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	25-Jan-17	16		76.2						
2017	25-Jan-17	17		76.6						
2017	25-Jan-17	18		71.6						
2017	25-Jan-17	19		73.2						
2017	25-Jan-17	20		76.5						
2017	25-Jan-17	21		84.9						
2017	25-Jan-17	22		82						
2017	25-Jan-17	23		79.8						
2017	26-Jan-17	0		80.1						
2017	26-Jan-17	1		81.4						
2017	26-Jan-17	2		75.6						
2017	26-Jan-17	3		73.1						
2017	26-Jan-17	4		70.1						
2017	26-Jan-17	5		70.1						
2017	26-Jan-17	6		71.6						0
2017	26-Jan-17	7		70						0
2017	26-Jan-17	8		57						0.144
2017	26-Jan-17	9		84.3						
2017	26-Jan-17	10		63.8						
2017	26-Jan-17	11		65.9						
2017	26-Jan-17	12		64.6						
2017	26-Jan-17	13		50						
2017	26-Jan-17	14		52.7						
2017	26-Jan-17	15		53.1						
2017	26-Jan-17	16		55.1						
2017	26-Jan-17	17		57.9						
2017	26-Jan-17	18		111.3						
2017	26-Jan-17	19		57.3						
2017	26-Jan-17	20		54.3						
2017	26-Jan-17	21		54.5						
2017	26-Jan-17	22		55.1						
2017	26-Jan-17	23		54.6						
2017	27-Jan-17	0		54.5						
2017	27-Jan-17	1		51.7						
2017	27-Jan-17	2		53.3						
2017	27-Jan-17	3		51.5						
2017	27-Jan-17	4		51.9						
2017	27-Jan-17	5		106.4						
2017	27-Jan-17	6		254.3						
2017	27-Jan-17	7		486.1						
2017	27-Jan-17	8		582		0				
2017	27-Jan-17	9		469.8		0				
2017	27-Jan-17	10		308.4		0				
2017	27-Jan-17	11		200.6		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	27-Jan-17	12		110.9		0				
2017	27-Jan-17	13		59.1		0				
2017	27-Jan-17	14		38.6		0				
2017	27-Jan-17	15		40.7		0				
2017	27-Jan-17	16		40.9		0				
2017	27-Jan-17	17		41.2		0				
2017	27-Jan-17	18		53.9		0				
2017	27-Jan-17	19		40.8		0				
2017	27-Jan-17	20		44		0				
2017	27-Jan-17	21		42.4		0				
2017	27-Jan-17	22		42.1		0				
2017	27-Jan-17	23		45		0				
2017	28-Jan-17	0		45.1		0				
2017	28-Jan-17	1		45.4		0				
2017	28-Jan-17	2		46.9		0				
2017	28-Jan-17	3		45.2		0				
2017	28-Jan-17	4		45.3		0				
2017	28-Jan-17	5		49.9		0				
2017	28-Jan-17	6		48.7		0				
2017	28-Jan-17	7		99		0				
2017	28-Jan-17	8		131.5		0				
2017	28-Jan-17	9		108		0				
2017	28-Jan-17	10		77.5		0				
2017	28-Jan-17	11		55.4		0				
2017	28-Jan-17	12	0	53.9		0				
2017	28-Jan-17	13	0	55.5		0				
2017	28-Jan-17	14	0	55.7		0				
2017	28-Jan-17	15	0	52		0				
2017	28-Jan-17	16	0	53.2		0				
2017	28-Jan-17	17	0	54.5		0				
2017	28-Jan-17	18	0	52.9		0				
2017	28-Jan-17	19	0	56.6		0				
2017	28-Jan-17	20	0	56.4		0				
2017	28-Jan-17	21	0	54.7		0				
2017	28-Jan-17	22	0	54.8		0				
2017	28-Jan-17	23	0	60		0				
2017	29-Jan-17	0	0	63.6		0				
2017	29-Jan-17	1	0	65.8		0				
2017	29-Jan-17	2	0	62.3		0				
2017	29-Jan-17	3	9.8	57.2		0				
2017	29-Jan-17	4	0	59.5		0				
2017	29-Jan-17	5	0	56.1		0				
2017	29-Jan-17	6	0	54.7		0				
2017	29-Jan-17	7	0	57.5		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	29-Jan-17	8	0	50.7		0				
2017	29-Jan-17	9	28.1	50.8		0				
2017	29-Jan-17	10	25.2	49		0				
2017	29-Jan-17	11	41.9	50.2		0				
2017	29-Jan-17	12	56.7	50.8		0				
2017	29-Jan-17	13	21.5	52.4		0				
2017	29-Jan-17	14	14.8	50.7		0				
2017	29-Jan-17	15	19.5	50		0				
2017	29-Jan-17	16	76.7	48		0				
2017	29-Jan-17	17	161.1	49.6		0				
2017	29-Jan-17	18	285.2	49.7		0				
2017	29-Jan-17	19	513.8	49.4		0				
2017	29-Jan-17	20	429.2	49.3		0				
2017	29-Jan-17	21	181.9	50.6		0				
2017	29-Jan-17	22	208.5	50.6		0				
2017	29-Jan-17	23	175.3	52.5		0				
2017	30-Jan-17	0	186.6	52.8		0				
2017	30-Jan-17	1	160.9	52.9		0				
2017	30-Jan-17	2	203.8	52.8		0				
2017	30-Jan-17	3	160.7	53.1		0				
2017	30-Jan-17	4	186.5	52.9		0				
2017	30-Jan-17	5	190.9	76.7		0				
2017	30-Jan-17	6	281.7	136.3		0				
2017	30-Jan-17	7	328.4	147		0				
2017	30-Jan-17	8	351.6	132.1		0				
2017	30-Jan-17	9	150.4	71.1		0				
2017	30-Jan-17	10	173	50.7		0				
2017	30-Jan-17	11	131.2	43.1		0				
2017	30-Jan-17	12	146.6	40.3		0				
2017	30-Jan-17	13	123.1	40.3		0				
2017	30-Jan-17	14	146.8	42		0				
2017	30-Jan-17	15	136.3	40.1		0				
2017	30-Jan-17	16	140.5	38.5		0				
2017	30-Jan-17	17	133.6	41.6		0				
2017	30-Jan-17	18	176.8	42.4		0				
2017	30-Jan-17	19	156.6	44		0				
2017	30-Jan-17	20	201	45.2		0				
2017	30-Jan-17	21	165.1	48.4		0				
2017	30-Jan-17	22	178.2	51.2		0				
2017	30-Jan-17	23	146.2	51.1		0				
2017	31-Jan-17	0	169.7	53.7		0				
2017	31-Jan-17	1	152.6	51.9		0				
2017	31-Jan-17	2	178.9	51.9		0				
2017	31-Jan-17	3	157.7	53.6		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	31-Jan-17	4	173.9	56.6		0				
2017	31-Jan-17	5	173.7	56		0				
2017	31-Jan-17	6	224.4	58.4		0				
2017	31-Jan-17	7	325.4	71.2		0				
2017	31-Jan-17	8	232.8	57.9		0				
2017	31-Jan-17	9	76.4	57.5		0				
2017	31-Jan-17	10	67.7	57.7		0				
2017	31-Jan-17	11	58.7	55.1		0				
2017	31-Jan-17	12	67.6	55.3		0				
2017	31-Jan-17	13	58.6	54.9		0				
2017	31-Jan-17	14	67.3	53.2		0				
2017	31-Jan-17	15	58.3	52.5		0				
2017	31-Jan-17	16	68.7	52.4		0				
2017	31-Jan-17	17	63.7	52.3		0				
2017	31-Jan-17	18	76.9	53.8		0				
2017	31-Jan-17	19	61.1	50.9		0				
2017	31-Jan-17	20	64.2	47.8		0				
2017	31-Jan-17	21	51.5	43.6		0				
2017	31-Jan-17	22	51.1	42.2		0				
2017	31-Jan-17	23	45.8	41.2		0				
2017	1-Feb-17	0	48.7	39.7		0				
2017	1-Feb-17	1	40.1	39.7		0				
2017	1-Feb-17	2	38.5	36.8		0				
2017	1-Feb-17	3	33.9	39.4		0				
2017	1-Feb-17	4	37.3	39.5		0				
2017	1-Feb-17	5	42.5	38.2		0				
2017	1-Feb-17	6	45.7	36.3		0				
2017	1-Feb-17	7	53	40		0				
2017	1-Feb-17	8	44.3	38.2		0				
2017	1-Feb-17	9	55.7	39.5		0				
2017	1-Feb-17	10	57.6	38.2		0				
2017	1-Feb-17	11	51	36.9		0				
2017	1-Feb-17	12	69.3	38.1		0				
2017	1-Feb-17	13	52.5	36.1		0				
2017	1-Feb-17	14	62.6	33.2						
2017	1-Feb-17	15	54.3	32.8						
2017	1-Feb-17	16	61.1	30.9						
2017	1-Feb-17	17	51	34.6						
2017	1-Feb-17	18	65.9	38.7						
2017	1-Feb-17	19	36.1	33.9						
2017	1-Feb-17	20	44.3	39.5						
2017	1-Feb-17	21	46.2	43.9						
2017	1-Feb-17	22	55	42.4						
2017	1-Feb-17	23	49.6	47.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	2-Feb-17	0	56.2	48.8						
2017	2-Feb-17	1	56	48.6						
2017	2-Feb-17	2	62.3	50.1						
2017	2-Feb-17	3	59.4	51.6						
2017	2-Feb-17	4	71.2	54.3						
2017	2-Feb-17	5	58.2	54.6						
2017	2-Feb-17	6	97.2	74.7						
2017	2-Feb-17	7	136.9	100.9						
2017	2-Feb-17	8	77.3	52.8						
2017	2-Feb-17	9	65.4	41.7						
2017	2-Feb-17	10	73.5	39.8						
2017	2-Feb-17	11	65	39.9	0.016					
2017	2-Feb-17	12	67.2	41	0.031					
2017	2-Feb-17	13	58.6	40.5	0.031					
2017	2-Feb-17	14	53.6	40.8	0.05					
2017	2-Feb-17	15	48.9	44.8	0.06					
2017	2-Feb-17	16	55.6	43.4	0.06					
2017	2-Feb-17	17	50.1	46	0.06					
2017	2-Feb-17	18	73.6	46.6	0.059					
2017	2-Feb-17	19	100.1	52	0.067					
2017	2-Feb-17	20	86.9	42.1	0.07					
2017	2-Feb-17	21	48.7	40.6	0.078					
2017	2-Feb-17	22	47.6	39.2	0.081					
2017	2-Feb-17	23	46	36.4	0.07					
2017	3-Feb-17	0	47.5	36.6	0.07					
2017	3-Feb-17	1	45.7	36.8	0.07					
2017	3-Feb-17	2	50.5	36.7	0.07					
2017	3-Feb-17	3	49.5	36.8	0.07					
2017	3-Feb-17	4	52.3	38.4	0.07					
2017	3-Feb-17	5	48.9	37.2	0.07					
2017	3-Feb-17	6	56.4	40.3	0.07					
2017	3-Feb-17	7	97.4	52	0.07					
2017	3-Feb-17	8	65.2	42.4	0.07					
2017	3-Feb-17	9	59	41	0.07					
2017	3-Feb-17	10	78.4	39.2	0.07					
2017	3-Feb-17	11	99.1	44.4	0.074					
2017	3-Feb-17	12	79.4	44.1	0.079					
2017	3-Feb-17	13	53.4	40.5	0.078					
2017	3-Feb-17	14	47.9	37.2	0.077					
2017	3-Feb-17	15	43.1	38.8	0.07					
2017	3-Feb-17	16	49.6	40.1	0.07					
2017	3-Feb-17	17	45	42.1	0.07					
2017	3-Feb-17	18	54.3	42.3	0.073					
2017	3-Feb-17	19	49.7	42.5	0.079					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	3-Feb-17	20	57.5	43.8	0.062					
2017	3-Feb-17	21	53	46.8	0.059					
2017	3-Feb-17	22	72	47.2	0.064					
2017	3-Feb-17	23	49.7	43.8	0.079					
2017	4-Feb-17	0	51	43.5	0.079					
2017	4-Feb-17	1	46.2	45.1	0.076					
2017	4-Feb-17	2	54.1	44.9	0.06					
2017	4-Feb-17	3	47.8	48.4	0.06					
2017	4-Feb-17	4	123.9	139.9	0.076					
2017	4-Feb-17	5	436.6	454.2	0.079					
2017	4-Feb-17	6	598.5	592.3	0.079					
2017	4-Feb-17	7	631.3	664.9	0.069					
2017	4-Feb-17	8	634.6	748.1	0.06					
2017	4-Feb-17	9	661.9	777.3	0.078					
2017	4-Feb-17	10	641.9	782	0.079					
2017	4-Feb-17	11	457.5	657.4	0.074					
2017	4-Feb-17	12	334.7	571.4	0.059					
2017	4-Feb-17	13	177.3	400	0.067					
2017	4-Feb-17	14	147.2	228.6	0.079					
2017	4-Feb-17	15	141.2	196	0.079					
2017	4-Feb-17	16	426.7	374.4	0.071					
2017	4-Feb-17	17	625.9	702.8	0.059					
2017	4-Feb-17	18	630.1	810.1	0.059					
2017	4-Feb-17	19	656	847	0.069					
2017	4-Feb-17	20	671	830.6	0.078					
2017	4-Feb-17	21	617.4	820.2	0.078					
2017	4-Feb-17	22	586.1	802.8	0.059					
2017	4-Feb-17	23	568	794.4	0.059					
2017	5-Feb-17	0	432.3	649.4	0.059					
2017	5-Feb-17	1	195.5	531.5	0.073					
2017	5-Feb-17	2	135.7	336.7	0.078					
2017	5-Feb-17	3	136.4	349.9	0.067					
2017	5-Feb-17	4	391.8	546	0.059					
2017	5-Feb-17	5	508	769.9	0.067					
2017	5-Feb-17	6	606.4	765.9	0.078					
2017	5-Feb-17	7	645.4	800	0.078					
2017	5-Feb-17	8	654.7	792.3	0.064					
2017	5-Feb-17	9	490.7	781.7	0.059					
2017	5-Feb-17	10	563.1	727.8	0.067					
2017	5-Feb-17	11	528.2	666.3	0.078					
2017	5-Feb-17	12	355.6	509.1	0.078					
2017	5-Feb-17	13	189.4	313.3	0.078					
2017	5-Feb-17	14	159.3	159.2	0.06					
2017	5-Feb-17	15	111.3	90.5	0.065					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	5-Feb-17	16	110.9	64.2	0.078					
2017	5-Feb-17	17	123.9	141.9	0.064					
2017	5-Feb-17	18	149.4	153.9	0.06					
2017	5-Feb-17	19	141.1	153.7	0.06					
2017	5-Feb-17	20	155.9	157.3	0.064					
2017	5-Feb-17	21	141.1	157.8	0.079					
2017	5-Feb-17	22	155.8	150.6	0.079					
2017	5-Feb-17	23	143.9	152.8	0.063					
2017	6-Feb-17	0	154.8	152.5	0.06					
2017	6-Feb-17	1	146.4	152.6	0.06					
2017	6-Feb-17	2	158.5	151.2	0.071					
2017	6-Feb-17	3	154	161.4	0.079					
2017	6-Feb-17	4	338.8	416.7	0.074					
2017	6-Feb-17	5	480.9	553.3	0.071					
2017	6-Feb-17	6	549.6	614.3	0.076					
2017	6-Feb-17	7	558.9	650.6	0.069					
2017	6-Feb-17	8	559.2	650.4	0.068					
2017	6-Feb-17	9	391.2	500.1	0.075					
2017	6-Feb-17	10	271.8	302.5	0.024					
2017	6-Feb-17	11	165.4	183.3						
2017	6-Feb-17	12	135.2	100.2						
2017	6-Feb-17	13	75.7	46.5						
2017	6-Feb-17	14	64.1	35.5						
2017	6-Feb-17	15	63.5	30.3						
2017	6-Feb-17	16	61.4	29						
2017	6-Feb-17	17	59.9	29						
2017	6-Feb-17	18	70.4	29.4						
2017	6-Feb-17	19	56.1	26.6						
2017	6-Feb-17	20	58.2	26.6						
2017	6-Feb-17	21	58.1	26.5						
2017	6-Feb-17	22	60.8	26.3						
2017	6-Feb-17	23	57.1	26.3						
2017	7-Feb-17	0	61.8	27.5						
2017	7-Feb-17	1	56.9	27.7						
2017	7-Feb-17	2	97.3	36.8						
2017	7-Feb-17	3	379.2	109.4						
2017	7-Feb-17	4	529.5	336.7						
2017	7-Feb-17	5	558.4	480.1						
2017	7-Feb-17	6	564.7	484.5						
2017	7-Feb-17	7	542.5	535.1						
2017	7-Feb-17	8	523.5	994.1						
2017	7-Feb-17	9	550.6	1041.1						
2017	7-Feb-17	10	420.9	1038.9						
2017	7-Feb-17	11	244.5	1071.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Feb-17	12	155.6	1082.9						
2017	7-Feb-17	13	91.5	1087.3						
2017	7-Feb-17	14	64.6	498.1						
2017	7-Feb-17	15	61.4	243.8						
2017	7-Feb-17	16	67.9	226.6						
2017	7-Feb-17	17	62.6	222.7						
2017	7-Feb-17	18	65.6	139.8						
2017	7-Feb-17	19	65.7	101.7						
2017	7-Feb-17	20	153.2	79.5						
2017	7-Feb-17	21	168.3	45.9						
2017	7-Feb-17	22	177.5	37.4						
2017	7-Feb-17	23	166	35.9						
2017	8-Feb-17	0	188.1	36.1						
2017	8-Feb-17	1	177.9	34.9						
2017	8-Feb-17	2	181.3	34.7						
2017	8-Feb-17	3	184	36.7						
2017	8-Feb-17	4	480.7	99.4						
2017	8-Feb-17	5	499	149.9						
2017	8-Feb-17	6	668.6	190.2						
2017	8-Feb-17	7	710.8	352.6						
2017	8-Feb-17	8	508.9	268.3						
2017	8-Feb-17	9	219.6	212.2						
2017	8-Feb-17	10	252.8	169						
2017	8-Feb-17	11	151.7	157.4						
2017	8-Feb-17	12	186.6	141.1						
2017	8-Feb-17	13	211.5	132.3						
2017	8-Feb-17	14	161.6	132.4						
2017	8-Feb-17	15	130.1	121						
2017	8-Feb-17	16	225.4	207.6						
2017	8-Feb-17	17	218.4	232.8						
2017	8-Feb-17	18	182.1	182.3						
2017	8-Feb-17	19	171.5	138.3						
2017	8-Feb-17	20	141.1	127						
2017	8-Feb-17	21	105.7	66.1						
2017	8-Feb-17	22	81.8	46						
2017	8-Feb-17	23	60.3	51.4						
2017	9-Feb-17	0	63.1	55.1						
2017	9-Feb-17	1	63.4	56.9						
2017	9-Feb-17	2	61.8	56.7						
2017	9-Feb-17	3	62.1	58.6						
2017	9-Feb-17	4	58.8	58.7						
2017	9-Feb-17	5	57.8	73.4						
2017	9-Feb-17	6	55.8	179.1						
2017	9-Feb-17	7	106.2	403.8						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	9-Feb-17	8	141.8	1017.6		0				
2017	9-Feb-17	9	143.8	1142.7		0				
2017	9-Feb-17	10	212.3	1174.1		0				
2017	9-Feb-17	11	221.2	1221.5		0				
2017	9-Feb-17	12	221.3	1264.3		0				
2017	9-Feb-17	13	176.4	1279.6		0				
2017	9-Feb-17	14	137.2	1230.9		0				
2017	9-Feb-17	15	119.2	660.5		0				
2017	9-Feb-17	16	125.1	449.8		0				
2017	9-Feb-17	17	129.6	325.4		0				
2017	9-Feb-17	18	237.4	329.5		0				
2017	9-Feb-17	19	351.8	309.1		0				
2017	9-Feb-17	20	412.8	297.5		0				
2017	9-Feb-17	21	646.9	363.8		0				
2017	9-Feb-17	22	451.7	322.5		0				
2017	9-Feb-17	23	262.7	316.9		0				
2017	10-Feb-17	0	238.3	246.1		0				
2017	10-Feb-17	1	152.2	183.3		0				
2017	10-Feb-17	2	190.3	146.6		0				
2017	10-Feb-17	3	264.5	103.9		0				
2017	10-Feb-17	4	538.4	71.9		0				
2017	10-Feb-17	5	971	98.9		0				
2017	10-Feb-17	6	1088.9	273.6		0				
2017	10-Feb-17	7	1019.5	641		0				
2017	10-Feb-17	8	972.5	700		0				
2017	10-Feb-17	9	999.6	738.8		0				
2017	10-Feb-17	10	1142.1	749.6		0				
2017	10-Feb-17	11	1209.6	803		0				
2017	10-Feb-17	12	1186.3	768.7		0				
2017	10-Feb-17	13	1167.9	741		0				
2017	10-Feb-17	14	1174.9	744.9		0				
2017	10-Feb-17	15	1171.4	755.9		0				
2017	10-Feb-17	16	1164.2	725.4		0				
2017	10-Feb-17	17	1047.9	444.1		0				
2017	10-Feb-17	18	901	366.6		0				
2017	10-Feb-17	19	631.9	340.2		0				
2017	10-Feb-17	20	455.9	340.5		0				
2017	10-Feb-17	21	358.8	304		0				
2017	10-Feb-17	22	245.7	234.7		0				
2017	10-Feb-17	23	161.2	171.8		0				
2017	11-Feb-17	0	161.8	126.6		0				
2017	11-Feb-17	1	168.1	90		0				
2017	11-Feb-17	2	168.2	63		0				
2017	11-Feb-17	3	163.2	64.3		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	11-Feb-17	4	167	61.3		0				
2017	11-Feb-17	5	277.3	110.2		0				
2017	11-Feb-17	6	405.2	214.8		0				
2017	11-Feb-17	7	428.1	222.5		0				
2017	11-Feb-17	8	420.1	225.6		0				
2017	11-Feb-17	9	283.1	186.6		0				
2017	11-Feb-17	10	248.6	167						
2017	11-Feb-17	11	199	125.4						
2017	11-Feb-17	12	159.5	89.1						
2017	11-Feb-17	13	144.5	85						
2017	11-Feb-17	14	160	73.8						
2017	11-Feb-17	15	143.7	65.4						
2017	11-Feb-17	16	159.2	66.9						
2017	11-Feb-17	17	148.1	66.9						
2017	11-Feb-17	18	158.1	62.8						
2017	11-Feb-17	19	149.1	62.6						
2017	11-Feb-17	20	159.3	59.2						
2017	11-Feb-17	21	157.9	61.5						
2017	11-Feb-17	22	167.2	61.1						
2017	11-Feb-17	23	159.3	61						
2017	12-Feb-17	0	178.4	60.3						
2017	12-Feb-17	1	169.8	61.2						
2017	12-Feb-17	2	188.9	60.5						
2017	12-Feb-17	3	165.4	59.2						
2017	12-Feb-17	4	171.6	59.6						
2017	12-Feb-17	5	157.2	58.8						
2017	12-Feb-17	6	166.4	55.6						
2017	12-Feb-17	7	175	56.9						
2017	12-Feb-17	8	162.4	54.9						
2017	12-Feb-17	9	154.8	54.5						
2017	12-Feb-17	10	162.3	55.7						
2017	12-Feb-17	11	158.2	55.6						
2017	12-Feb-17	12	181.6	57						
2017	12-Feb-17	13	157.7	59.2						
2017	12-Feb-17	14	160.8	56.6						
2017	12-Feb-17	15	139.4	54.1						
2017	12-Feb-17	16	152	54						
2017	12-Feb-17	17	137	51.5						
2017	12-Feb-17	18	160.1	52						
2017	12-Feb-17	19	136.2	49.4						
2017	12-Feb-17	20	159	53						
2017	12-Feb-17	21	149.4	56.5						
2017	12-Feb-17	22	167.9	57.6						
2017	12-Feb-17	23	149.4	57.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	13-Feb-17	0	166.7	58.3						
2017	13-Feb-17	1	154.1	59.9						
2017	13-Feb-17	2	177.3	57.5						
2017	13-Feb-17	3	158.6	57.5						
2017	13-Feb-17	4	164.1	56.3						
2017	13-Feb-17	5	162.1	58.1						
2017	13-Feb-17	6	166	55.1						
2017	13-Feb-17	7	238.7	107.1						
2017	13-Feb-17	8	291.8	195.1						
2017	13-Feb-17	9	360.3	171.2						
2017	13-Feb-17	10	372.8	113.7						
2017	13-Feb-17	11	528.9	143.2						0.348
2017	13-Feb-17	12	412.4	122.8						0.2
2017	13-Feb-17	13	329.3	104.7						0
2017	13-Feb-17	14	257.7	62.5						0
2017	13-Feb-17	15	155	60.9						0
2017	13-Feb-17	16	165.2	58.2						0
2017	13-Feb-17	17	147.5	56.3						0
2017	13-Feb-17	18	247.3	83.1						0
2017	13-Feb-17	19	238.6	106.2						0
2017	13-Feb-17	20	342.2	126						0
2017	13-Feb-17	21	283.4	134.9						0
2017	13-Feb-17	22	234.5	98.5						0
2017	13-Feb-17	23	159.8	65.9						0
2017	14-Feb-17	0	176.7	67.5						0
2017	14-Feb-17	1	151.5	66.1						31.7
2017	14-Feb-17	2	168.1	65						126.3
2017	14-Feb-17	3	151	65.1						191.1
2017	14-Feb-17	4	172.1	65.2		0				341.2
2017	14-Feb-17	5	156.6	67.7		0				397
2017	14-Feb-17	6	210.3	75.7		0				673.3
2017	14-Feb-17	7	305	185.3		0				888.7
2017	14-Feb-17	8	403.9	196.1		0				824.3
2017	14-Feb-17	9	592.5	185		0				894.1
2017	14-Feb-17	10	331.6	130.5		0				812.3
2017	14-Feb-17	11	205.7	79.4		0				809.4
2017	14-Feb-17	12	169.5	65.7		0				860.5
2017	14-Feb-17	13	160.5	65.6		0				870.8
2017	14-Feb-17	14	168.9	64.4		0				849.3
2017	14-Feb-17	15	156.8	67.7		0				790.5
2017	14-Feb-17	16	172.3	67.4		0				752.2
2017	14-Feb-17	17	166	64.3						606.4
2017	14-Feb-17	18	305.3	70.5						619.7
2017	14-Feb-17	19	309.1	72						601.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	14-Feb-17	20	219.7	68.9						557.2
2017	14-Feb-17	21	156.7	66.1						547.4
2017	14-Feb-17	22	154.3	63						541.9
2017	14-Feb-17	23	136.6	62.9						538.5
2017	15-Feb-17	0	147.1	61.8						544.2
2017	15-Feb-17	1	130.9	60.5						571.7
2017	15-Feb-17	2	139.5	60.5						690
2017	15-Feb-17	3	130.5	62						682.4
2017	15-Feb-17	4	151.5	63.7						791.3
2017	15-Feb-17	5	135.3	63.8						892.4
2017	15-Feb-17	6	182.5	54.7						1095.4
2017	15-Feb-17	7	218.6	122.3						1123.7
2017	15-Feb-17	8	196.6	89.3						1102.8
2017	15-Feb-17	9	234.2	76.1						1100.8
2017	15-Feb-17	10	220.3	52.7						1187.8
2017	15-Feb-17	11	129.8	50.5						1139.2
2017	15-Feb-17	12	153.2	50.5						1086.8
2017	15-Feb-17	13	138.6	53.3						1105.2
2017	15-Feb-17	14	154.5	58.8						1106.6
2017	15-Feb-17	15	172.2	62.4						1094.3
2017	15-Feb-17	16	185.4	64.9						1029.3
2017	15-Feb-17	17	179.2	69.5						911.9
2017	15-Feb-17	18	333	93.3						887.8
2017	15-Feb-17	19	351.1	112.8						970.6
2017	15-Feb-17	20	412.7	121.9						978.6
2017	15-Feb-17	21	347.7	120.4						830.2
2017	15-Feb-17	22	304.8	83						532.9
2017	15-Feb-17	23	195.7	69.6						285.4
2017	16-Feb-17	0	174.8	70.7						212.8
2017	16-Feb-17	1	147.2	64.8						76.908
2017	16-Feb-17	2	155.3	63.4						
2017	16-Feb-17	3	135.4	59.9						
2017	16-Feb-17	4	148.2	60.1						
2017	16-Feb-17	5	136.7	64		0				
2017	16-Feb-17	6	366.6	120.1		0				
2017	16-Feb-17	7	812.6	273.1		0				
2017	16-Feb-17	8	1127.9	368.4		0				
2017	16-Feb-17	9	766.2	309		0				
2017	16-Feb-17	10	435.2	265.2		0				
2017	16-Feb-17	11	254.5	206		0				
2017	16-Feb-17	12	168.2	164.1		0				
2017	16-Feb-17	13	148.8	125.4		0				
2017	16-Feb-17	14	167.6	82.5		0				
2017	16-Feb-17	15	155.7	75.8		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	16-Feb-17	16	192.7	82.1		0				
2017	16-Feb-17	17	170.4	82.4		0				
2017	16-Feb-17	18	281.7	93.2		0				
2017	16-Feb-17	19	257.2	83.8						
2017	16-Feb-17	20	262.9	76.5						
2017	16-Feb-17	21	289.2	74.9						
2017	16-Feb-17	22	226.3	71.7						
2017	16-Feb-17	23	181.2	72.2						
2017	17-Feb-17	0	210	77.7						
2017	17-Feb-17	1	201	77.9						
2017	17-Feb-17	2	207.1	75.2						
2017	17-Feb-17	3	189.4	73.1						
2017	17-Feb-17	4	199.3	74.3						
2017	17-Feb-17	5	201.6	72.5						
2017	17-Feb-17	6	358.8	137.4						
2017	17-Feb-17	7	563.1	198.4						
2017	17-Feb-17	8	447.9	176.8						
2017	17-Feb-17	9	371.7	169.7						
2017	17-Feb-17	10	303.1	143.8		0				
2017	17-Feb-17	11	133.2	102.5		0				
2017	17-Feb-17	12	201.3	65.1		0				
2017	17-Feb-17	13	208	63.4		0				
2017	17-Feb-17	14	207.9	63.1		0				
2017	17-Feb-17	15	188.3	63.3		0				
2017	17-Feb-17	16	191.6	64.5		0				
2017	17-Feb-17	17	186	63.5		0				
2017	17-Feb-17	18	197.3	73.2		0				
2017	17-Feb-17	19	182.6	74.4		0				
2017	17-Feb-17	20	211.3	76.1						
2017	17-Feb-17	21	213.6	78						
2017	17-Feb-17	22	218.6	213.1						
2017	17-Feb-17	23	188.5	292.9						
2017	18-Feb-17	0	206.8	181.6						
2017	18-Feb-17	1	169.5	63.6						
2017	18-Feb-17	2	136.6	30						
2017	18-Feb-17	3	0							
2017	18-Feb-17	4								
2017	18-Feb-17	5								
2017	18-Feb-17	6								
2017	18-Feb-17	7								
2017	18-Feb-17	8								
2017	18-Feb-17	9								
2017	18-Feb-17	10								
2017	18-Feb-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Feb-17	12								
2017	18-Feb-17	13								
2017	18-Feb-17	14								
2017	18-Feb-17	15								
2017	18-Feb-17	16								
2017	18-Feb-17	17								
2017	18-Feb-17	18								
2017	18-Feb-17	19								
2017	18-Feb-17	20								
2017	18-Feb-17	21								
2017	18-Feb-17	22								
2017	18-Feb-17	23								
2017	19-Feb-17	0								
2017	19-Feb-17	1								
2017	19-Feb-17	2								
2017	19-Feb-17	3								
2017	19-Feb-17	4								
2017	19-Feb-17	5								
2017	19-Feb-17	6								
2017	19-Feb-17	7								
2017	19-Feb-17	8								
2017	19-Feb-17	9								
2017	19-Feb-17	10								
2017	19-Feb-17	11								
2017	19-Feb-17	12								
2017	19-Feb-17	13								
2017	19-Feb-17	14								
2017	19-Feb-17	15								
2017	19-Feb-17	16								
2017	19-Feb-17	17								
2017	19-Feb-17	18								
2017	19-Feb-17	19								
2017	19-Feb-17	20								
2017	19-Feb-17	21								
2017	19-Feb-17	22								
2017	19-Feb-17	23								
2017	20-Feb-17	0								
2017	20-Feb-17	1								
2017	20-Feb-17	2								
2017	20-Feb-17	3								
2017	20-Feb-17	4								
2017	20-Feb-17	5								
2017	20-Feb-17	6								
2017	20-Feb-17	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	20-Feb-17	8								
2017	20-Feb-17	9								
2017	20-Feb-17	10								
2017	20-Feb-17	11								
2017	20-Feb-17	12								
2017	20-Feb-17	13								
2017	20-Feb-17	14								
2017	20-Feb-17	15								
2017	20-Feb-17	16								
2017	20-Feb-17	17								
2017	20-Feb-17	18								
2017	20-Feb-17	19								
2017	20-Feb-17	20								
2017	20-Feb-17	21								
2017	20-Feb-17	22								
2017	20-Feb-17	23								
2017	21-Feb-17	0								
2017	21-Feb-17	1								
2017	21-Feb-17	2								
2017	21-Feb-17	3								
2017	21-Feb-17	4								
2017	21-Feb-17	5								
2017	21-Feb-17	6								
2017	21-Feb-17	7								
2017	21-Feb-17	8								
2017	21-Feb-17	9								
2017	21-Feb-17	10								
2017	21-Feb-17	11								
2017	21-Feb-17	12								
2017	21-Feb-17	13								
2017	21-Feb-17	14								
2017	21-Feb-17	15								
2017	21-Feb-17	16								
2017	21-Feb-17	17								
2017	21-Feb-17	18								
2017	21-Feb-17	19								
2017	21-Feb-17	20								
2017	21-Feb-17	21								
2017	21-Feb-17	22								
2017	21-Feb-17	23								
2017	22-Feb-17	0								
2017	22-Feb-17	1								
2017	22-Feb-17	2								
2017	22-Feb-17	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	22-Feb-17	4								
2017	22-Feb-17	5								
2017	22-Feb-17	6								
2017	22-Feb-17	7								
2017	22-Feb-17	8								
2017	22-Feb-17	9								
2017	22-Feb-17	10								
2017	22-Feb-17	11								
2017	22-Feb-17	12								
2017	22-Feb-17	13								
2017	22-Feb-17	14								
2017	22-Feb-17	15								
2017	22-Feb-17	16								
2017	22-Feb-17	17								
2017	22-Feb-17	18								
2017	22-Feb-17	19								
2017	22-Feb-17	20								
2017	22-Feb-17	21								
2017	22-Feb-17	22								
2017	22-Feb-17	23								
2017	23-Feb-17	0								
2017	23-Feb-17	1								
2017	23-Feb-17	2								
2017	23-Feb-17	3								
2017	23-Feb-17	4								
2017	23-Feb-17	5								
2017	23-Feb-17	6								
2017	23-Feb-17	7								
2017	23-Feb-17	8								
2017	23-Feb-17	9								
2017	23-Feb-17	10								
2017	23-Feb-17	11								
2017	23-Feb-17	12								
2017	23-Feb-17	13								
2017	23-Feb-17	14								
2017	23-Feb-17	15								
2017	23-Feb-17	16								
2017	23-Feb-17	17								
2017	23-Feb-17	18								
2017	23-Feb-17	19								
2017	23-Feb-17	20								
2017	23-Feb-17	21								
2017	23-Feb-17	22								
2017	23-Feb-17	23								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	24-Feb-17	0								
2017	24-Feb-17	1								
2017	24-Feb-17	2								
2017	24-Feb-17	3								
2017	24-Feb-17	4								
2017	24-Feb-17	5								
2017	24-Feb-17	6								
2017	24-Feb-17	7								
2017	24-Feb-17	8								
2017	24-Feb-17	9								
2017	24-Feb-17	10								
2017	24-Feb-17	11								
2017	24-Feb-17	12								
2017	24-Feb-17	13								
2017	24-Feb-17	14								
2017	24-Feb-17	15								
2017	24-Feb-17	16								
2017	24-Feb-17	17								
2017	24-Feb-17	18								
2017	24-Feb-17	19								
2017	24-Feb-17	20								
2017	24-Feb-17	21								
2017	24-Feb-17	22								
2017	24-Feb-17	23								
2017	25-Feb-17	0								
2017	25-Feb-17	1								
2017	25-Feb-17	2								
2017	25-Feb-17	3								
2017	25-Feb-17	4								
2017	25-Feb-17	5								
2017	25-Feb-17	6								
2017	25-Feb-17	7								
2017	25-Feb-17	8								
2017	25-Feb-17	9								
2017	25-Feb-17	10								
2017	25-Feb-17	11								0
2017	25-Feb-17	12								0
2017	25-Feb-17	13								0.2
2017	25-Feb-17	14								0
2017	25-Feb-17	15								0
2017	25-Feb-17	16								0
2017	25-Feb-17	17								0
2017	25-Feb-17	18								0
2017	25-Feb-17	19					0			0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	25-Feb-17	20					3			1.4
2017	25-Feb-17	21					71.3			4.4
2017	25-Feb-17	22					237.3			6.6
2017	25-Feb-17	23					223.7			7.9
2017	26-Feb-17	0					213.3			8.4
2017	26-Feb-17	1					222.4			13.9
2017	26-Feb-17	2					349.5			32.5
2017	26-Feb-17	3					439.6			135.8
2017	26-Feb-17	4					728.2			209.2
2017	26-Feb-17	5					1059			362.5
2017	26-Feb-17	6					1219			402.1
2017	26-Feb-17	7					1495.6			448.5
2017	26-Feb-17	8					1386.3			444.8
2017	26-Feb-17	9					1452.3			408.3
2017	26-Feb-17	10					1686.9			406.3
2017	26-Feb-17	11					1619.8			406.2
2017	26-Feb-17	12					1558.1			408.7
2017	26-Feb-17	13					1542.4			404.3
2017	26-Feb-17	14					1581			407.5
2017	26-Feb-17	15					1698.5			345.2
2017	26-Feb-17	16					1803			345.2
2017	26-Feb-17	17					1849.3			345.2
2017	26-Feb-17	18					1869.2			345.2
2017	26-Feb-17	19					1877.4			345.2
2017	26-Feb-17	20					1940.8			345.2
2017	26-Feb-17	21					1955.3			345.2
2017	26-Feb-17	22					1853.8			345.2
2017	26-Feb-17	23					1794.7			345.2
2017	27-Feb-17	0					1754.7			345.2
2017	27-Feb-17	1					1732.4			345.2
2017	27-Feb-17	2					1722.7			345.2
2017	27-Feb-17	3					1722.1			345.2
2017	27-Feb-17	4					1732.6			345.2
2017	27-Feb-17	5					1774.8			345.2
2017	27-Feb-17	6				0	1798.9			409.1
2017	27-Feb-17	7				0	1962.3			462.5
2017	27-Feb-17	8				0	1606.5			406.6
2017	27-Feb-17	9				0	1788.9			491.7
2017	27-Feb-17	10				0	1563.6			399.6
2017	27-Feb-17	11				0	309.76			65.912
2017	27-Feb-17	12				0				
2017	27-Feb-17	13				0				
2017	27-Feb-17	14				0				
2017	27-Feb-17	15				0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	27-Feb-17	16				0				
2017	27-Feb-17	17				0				
2017	27-Feb-17	18				0				
2017	27-Feb-17	19				0				
2017	27-Feb-17	20				0				
2017	27-Feb-17	21				0				
2017	27-Feb-17	22				0				
2017	27-Feb-17	23				0				
2017	28-Feb-17	0				0				
2017	28-Feb-17	1				0				
2017	28-Feb-17	2				0				
2017	28-Feb-17	3				0				
2017	28-Feb-17	4				0				
2017	28-Feb-17	5				0				
2017	28-Feb-17	6				0				
2017	28-Feb-17	7				0				
2017	28-Feb-17	8				0				
2017	28-Feb-17	9				0				
2017	28-Feb-17	10				0				
2017	28-Feb-17	11				0				
2017	28-Feb-17	12				0				
2017	28-Feb-17	13				0				
2017	28-Feb-17	14				0				
2017	28-Feb-17	15				0				
2017	28-Feb-17	16								
2017	28-Feb-17	17								
2017	28-Feb-17	18								
2017	28-Feb-17	19								
2017	28-Feb-17	20								
2017	28-Feb-17	21								
2017	28-Feb-17	22								
2017	28-Feb-17	23								
2017	1-Mar-17	0								
2017	1-Mar-17	1								
2017	1-Mar-17	2								
2017	1-Mar-17	3								
2017	1-Mar-17	4								
2017	1-Mar-17	5								
2017	1-Mar-17	6								
2017	1-Mar-17	7								
2017	1-Mar-17	8								
2017	1-Mar-17	9								
2017	1-Mar-17	10								
2017	1-Mar-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	1-Mar-17	12								
2017	1-Mar-17	13								
2017	1-Mar-17	14								
2017	1-Mar-17	15								
2017	1-Mar-17	16								
2017	1-Mar-17	17								
2017	1-Mar-17	18								
2017	1-Mar-17	19								
2017	1-Mar-17	20								
2017	1-Mar-17	21								
2017	1-Mar-17	22								
2017	1-Mar-17	23								
2017	2-Mar-17	0								
2017	2-Mar-17	1								
2017	2-Mar-17	2								
2017	2-Mar-17	3								
2017	2-Mar-17	4								
2017	2-Mar-17	5								
2017	2-Mar-17	6								
2017	2-Mar-17	7								
2017	2-Mar-17	8								
2017	2-Mar-17	9								
2017	2-Mar-17	10								
2017	2-Mar-17	11				0				
2017	2-Mar-17	12				0				
2017	2-Mar-17	13				0				
2017	2-Mar-17	14				0				
2017	2-Mar-17	15				0				
2017	2-Mar-17	16				0				
2017	2-Mar-17	17				0				
2017	2-Mar-17	18				0				
2017	2-Mar-17	19				0				
2017	2-Mar-17	20				0				
2017	2-Mar-17	21				0				
2017	2-Mar-17	22				0				
2017	2-Mar-17	23				0				
2017	3-Mar-17	0				0				
2017	3-Mar-17	1				0				
2017	3-Mar-17	2				0				
2017	3-Mar-17	3				0				
2017	3-Mar-17	4				0				
2017	3-Mar-17	5				0				
2017	3-Mar-17	6				0				
2017	3-Mar-17	7				0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	3-Mar-17	8				0				
2017	3-Mar-17	9				0				
2017	3-Mar-17	10				0				
2017	3-Mar-17	11				0				
2017	3-Mar-17	12				0				
2017	3-Mar-17	13				0				
2017	3-Mar-17	14				0				
2017	3-Mar-17	15				0				
2017	3-Mar-17	16				0				
2017	3-Mar-17	17				0				
2017	3-Mar-17	18				0				
2017	3-Mar-17	19				0				
2017	3-Mar-17	20				0				
2017	3-Mar-17	21				0				
2017	3-Mar-17	22				0				
2017	3-Mar-17	23				0				
2017	4-Mar-17	0				0				
2017	4-Mar-17	1				0				
2017	4-Mar-17	2				0				
2017	4-Mar-17	3				0				
2017	4-Mar-17	4				0				
2017	4-Mar-17	5				0				
2017	4-Mar-17	6				0				
2017	4-Mar-17	7				0				
2017	4-Mar-17	8				0				
2017	4-Mar-17	9				0				
2017	4-Mar-17	10				0				
2017	4-Mar-17	11				0				
2017	4-Mar-17	12				0				
2017	4-Mar-17	13				0				
2017	4-Mar-17	14				0				
2017	4-Mar-17	15				0				
2017	4-Mar-17	16				0				
2017	4-Mar-17	17				0				
2017	4-Mar-17	18				0				
2017	4-Mar-17	19				0				
2017	4-Mar-17	20				0				
2017	4-Mar-17	21				0				
2017	4-Mar-17	22				0				
2017	4-Mar-17	23				0				
2017	5-Mar-17	0				0				
2017	5-Mar-17	1				0				
2017	5-Mar-17	2				0				
2017	5-Mar-17	3				0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	5-Mar-17	4				0				
2017	5-Mar-17	5				0				
2017	5-Mar-17	6				0				
2017	5-Mar-17	7				0				
2017	5-Mar-17	8				0				
2017	5-Mar-17	9				0				
2017	5-Mar-17	10				0				
2017	5-Mar-17	11				0				
2017	5-Mar-17	12				0				
2017	5-Mar-17	13				0				
2017	5-Mar-17	14				0				
2017	5-Mar-17	15				0				
2017	5-Mar-17	16				0				
2017	5-Mar-17	17				0				
2017	5-Mar-17	18				0				
2017	5-Mar-17	19				0				
2017	5-Mar-17	20				0				
2017	5-Mar-17	21				0				
2017	5-Mar-17	22				0				
2017	5-Mar-17	23				0				
2017	6-Mar-17	0				0				
2017	6-Mar-17	1				0				
2017	6-Mar-17	2				0				
2017	6-Mar-17	3				0				
2017	6-Mar-17	4				0				
2017	6-Mar-17	5				0				
2017	6-Mar-17	6				0				
2017	6-Mar-17	7				0				
2017	6-Mar-17	8				0				
2017	6-Mar-17	9								
2017	6-Mar-17	10								
2017	6-Mar-17	11								
2017	6-Mar-17	12								
2017	6-Mar-17	13								
2017	6-Mar-17	14								
2017	6-Mar-17	15								
2017	6-Mar-17	16								
2017	6-Mar-17	17								
2017	6-Mar-17	18								
2017	6-Mar-17	19								
2017	6-Mar-17	20								
2017	6-Mar-17	21								
2017	6-Mar-17	22								
2017	6-Mar-17	23								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Mar-17	0								
2017	7-Mar-17	1								
2017	7-Mar-17	2								
2017	7-Mar-17	3								
2017	7-Mar-17	4								
2017	7-Mar-17	5								
2017	7-Mar-17	6								
2017	7-Mar-17	7								
2017	7-Mar-17	8								
2017	7-Mar-17	9								
2017	7-Mar-17	10								
2017	7-Mar-17	11								
2017	7-Mar-17	12								
2017	7-Mar-17	13								
2017	7-Mar-17	14								
2017	7-Mar-17	15								
2017	7-Mar-17	16								
2017	7-Mar-17	17								
2017	7-Mar-17	18								
2017	7-Mar-17	19								
2017	7-Mar-17	20								
2017	7-Mar-17	21								
2017	7-Mar-17	22								
2017	7-Mar-17	23								
2017	8-Mar-17	0								
2017	8-Mar-17	1								
2017	8-Mar-17	2								
2017	8-Mar-17	3								
2017	8-Mar-17	4								
2017	8-Mar-17	5								
2017	8-Mar-17	6								
2017	8-Mar-17	7								
2017	8-Mar-17	8								
2017	8-Mar-17	9								
2017	8-Mar-17	10								
2017	8-Mar-17	11								
2017	8-Mar-17	12								
2017	8-Mar-17	13								
2017	8-Mar-17	14								
2017	8-Mar-17	15								
2017	8-Mar-17	16								
2017	8-Mar-17	17								
2017	8-Mar-17	18								
2017	8-Mar-17	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	8-Mar-17	20								
2017	8-Mar-17	21								
2017	8-Mar-17	22								
2017	8-Mar-17	23								
2017	9-Mar-17	0								
2017	9-Mar-17	1								
2017	9-Mar-17	2								
2017	9-Mar-17	3								
2017	9-Mar-17	4								
2017	9-Mar-17	5								
2017	9-Mar-17	6								
2017	9-Mar-17	7								
2017	9-Mar-17	8								
2017	9-Mar-17	9								
2017	9-Mar-17	10								
2017	9-Mar-17	11								
2017	9-Mar-17	12								
2017	9-Mar-17	13								
2017	9-Mar-17	14								
2017	9-Mar-17	15				0				
2017	9-Mar-17	16				0				
2017	9-Mar-17	17				0				
2017	9-Mar-17	18				0				
2017	9-Mar-17	19				0				
2017	9-Mar-17	20				0				
2017	9-Mar-17	21				0				
2017	9-Mar-17	22				0				
2017	9-Mar-17	23				0				
2017	10-Mar-17	0				0				
2017	10-Mar-17	1				0				
2017	10-Mar-17	2				0				
2017	10-Mar-17	3				0				
2017	10-Mar-17	4				0				
2017	10-Mar-17	5				0				
2017	10-Mar-17	6				0				
2017	10-Mar-17	7				0				
2017	10-Mar-17	8				0				
2017	10-Mar-17	9				0				
2017	10-Mar-17	10				0				
2017	10-Mar-17	11				0				
2017	10-Mar-17	12				0				
2017	10-Mar-17	13				0				
2017	10-Mar-17	14				0				
2017	10-Mar-17	15				0				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	10-Mar-17	16				0				0
2017	10-Mar-17	17				0				0
2017	10-Mar-17	18				0				1
2017	10-Mar-17	19				0				0.1
2017	10-Mar-17	20				0				0
2017	10-Mar-17	21				0				0
2017	10-Mar-17	22		0.92		0				0
2017	10-Mar-17	23		2		0				0
2017	11-Mar-17	0		1.1		0				0
2017	11-Mar-17	1		4.4		0				0
2017	11-Mar-17	2		3.3		0				2.5
2017	11-Mar-17	3		2.1		0				86.2
2017	11-Mar-17	4		2.1		0				227.8
2017	11-Mar-17	5		2		0				366.2
2017	11-Mar-17	6		1.8		0				405.2
2017	11-Mar-17	7		3.6		0				406.3
2017	11-Mar-17	8		1.9		0				482.5
2017	11-Mar-17	9		2.3		0				691.1
2017	11-Mar-17	10		2.3		0				870.4
2017	11-Mar-17	11		2.3		0				1007
2017	11-Mar-17	12		2.4		0				807.6
2017	11-Mar-17	13		2.4		0				735.4
2017	11-Mar-17	14		2.5		0				545.9
2017	11-Mar-17	15		10.1		0				503.7
2017	11-Mar-17	16		11.9		0				479.9
2017	11-Mar-17	17		10.1		0				462.6
2017	11-Mar-17	18		10		0				676.4
2017	11-Mar-17	19	0	10		0				958.2
2017	11-Mar-17	20	0	10.1		0				941.1
2017	11-Mar-17	21	0	10.1		0				886.6
2017	11-Mar-17	22	0	10		0				864.3
2017	11-Mar-17	23	0	10		0				844.5
2017	12-Mar-17	0	0	20.1		0				705.5
2017	12-Mar-17	1	0	51.2		0				896.8
2017	12-Mar-17	2	0	86.6		0				745.7
2017	12-Mar-17	3	0	130.9		0				619.9
2017	12-Mar-17	4	0	224.7		0				469.3
2017	12-Mar-17	5	0	235.4		0				507
2017	12-Mar-17	6	0	275.3		0				687.5
2017	12-Mar-17	7	1	655.6		0				871.2
2017	12-Mar-17	8	0	398.8		0				1036.6
2017	12-Mar-17	9	0	125.7		0				824.3
2017	12-Mar-17	10	0	102.8		0				624.3
2017	12-Mar-17	11	0	124.1		0				793.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	12-Mar-17	12	0	115		0				724.7
2017	12-Mar-17	13	0	97.1		0				502.4
2017	12-Mar-17	14	0	62.8		0				434.8
2017	12-Mar-17	15	0	54.3		0				431.1
2017	12-Mar-17	16	0	52.9		0				380.7
2017	12-Mar-17	17	5	54.9		0				344.5
2017	12-Mar-17	18	23.9	118.3		0				416.3
2017	12-Mar-17	19	131.2	254.5		0				735.7
2017	12-Mar-17	20	589.4	450.4		0				977.6
2017	12-Mar-17	21	662.9	526.3		0				803.5
2017	12-Mar-17	22	629.7	548.2		0				660
2017	12-Mar-17	23	585	472		0				531.7
2017	13-Mar-17	0	714	328.1		0				653.9
2017	13-Mar-17	1	324.7	223.2		0				746.9
2017	13-Mar-17	2	336.5	155.4		0				849.8
2017	13-Mar-17	3	381.1	118.1		0				834
2017	13-Mar-17	4	462.2	166.7		0				973.8
2017	13-Mar-17	5	547.9	301.1		0				989.8
2017	13-Mar-17	6	938.4	558		0				989.5
2017	13-Mar-17	7	830	701.7		0				996.1
2017	13-Mar-17	8	492.5	741.2		0				986.3
2017	13-Mar-17	9	465.4	717.6		0				991.6
2017	13-Mar-17	10	398.4	668.1		0				1002.9
2017	13-Mar-17	11	354.1	588.1		0				925.9
2017	13-Mar-17	12	286.7	562.2		0				699.4
2017	13-Mar-17	13	209	431.1		0				491.6
2017	13-Mar-17	14	219.5	329.5		0				557.9
2017	13-Mar-17	15	194.7	253.3		0				670.6
2017	13-Mar-17	16	316.7	319.9		0				869.6
2017	13-Mar-17	17	201	218.5		0				773.1
2017	13-Mar-17	18	234.7	306.6		0				982.6
2017	13-Mar-17	19	247.2	317.9		0				1021.9
2017	13-Mar-17	20	268.8	344.7		0				1007.3
2017	13-Mar-17	21	264.1	231.7		0				781.8
2017	13-Mar-17	22	269.1	247.8		0				725.7
2017	13-Mar-17	23	257.2	303.6		0				852.4
2017	14-Mar-17	0	236.7	270.6		0				755.6
2017	14-Mar-17	1	195.4	218.7		0				776.9
2017	14-Mar-17	2	210.9	231.7		0				881.2
2017	14-Mar-17	3	292.7	372.7		0				1063.4
2017	14-Mar-17	4	316.7	427.2		0				1073.1
2017	14-Mar-17	5	299.2	440.6		0				1070.6
2017	14-Mar-17	6	338.5	492.1		0				805.3
2017	14-Mar-17	7	336.1	704.5		0				964.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	14-Mar-17	8	333	748		0				1072.3
2017	14-Mar-17	9	302.8	753		0				1081
2017	14-Mar-17	10	338.9	761.4		0				1075.5
2017	14-Mar-17	11	353.3	772.4		0				1073.2
2017	14-Mar-17	12	338.3	744.1		0				1070.6
2017	14-Mar-17	13	321.4	733.6		0				1064.4
2017	14-Mar-17	14	313.8	653.4		0				1039.6
2017	14-Mar-17	15	293.9	423.5		0				994.4
2017	14-Mar-17	16	349.6	247.4		0				1075.1
2017	14-Mar-17	17	304.4	110		0				1063.9
2017	14-Mar-17	18	371.3	58.4		0				1075.2
2017	14-Mar-17	19	348			0				1083.6
2017	14-Mar-17	20	366.7			0				1069.6
2017	14-Mar-17	21	318.9			0				1065.4
2017	14-Mar-17	22	369.4			0				1066
2017	14-Mar-17	23	358.3			0				1022.9
2017	15-Mar-17	0	345.9			0				1005.7
2017	15-Mar-17	1	414.2			0				1038.2
2017	15-Mar-17	2	646.2			0				1055.8
2017	15-Mar-17	3	714.7			0				1034.2
2017	15-Mar-17	4	717			0				1053.2
2017	15-Mar-17	5	716.3			0				1052.3
2017	15-Mar-17	6	739.8			0				1050.7
2017	15-Mar-17	7	762.3			0				1040.6
2017	15-Mar-17	8	730.2			0				1040.3
2017	15-Mar-17	9	685			0				1052
2017	15-Mar-17	10	689.3			0				1064.7
2017	15-Mar-17	11	662			0				1063.5
2017	15-Mar-17	12	673.6			0				1062.4
2017	15-Mar-17	13	614.4			0				1049.2
2017	15-Mar-17	14	604.7			0				1047.7
2017	15-Mar-17	15	620.8			0				1034.7
2017	15-Mar-17	16	564.1			0				1043.3
2017	15-Mar-17	17	450.1			0				1025.4
2017	15-Mar-17	18	499.2			0				1052.1
2017	15-Mar-17	19	594.1			0				1056.5
2017	15-Mar-17	20	552.2			0				1052
2017	15-Mar-17	21	604.8			0				1060.1
2017	15-Mar-17	22	618.1			0				942.632
2017	15-Mar-17	23	634.2			0				
2017	16-Mar-17	0	599.1			0				
2017	16-Mar-17	1	472.7			0				
2017	16-Mar-17	2	500.1			0				
2017	16-Mar-17	3	563			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	16-Mar-17	4	651.3			0				
2017	16-Mar-17	5	609			0				63.6
2017	16-Mar-17	6	617.5			0				280.7
2017	16-Mar-17	7	632.9			0				295.1
2017	16-Mar-17	8	625.2			0				3.3
2017	16-Mar-17	9	625.5			0				0.7
2017	16-Mar-17	10	615.6			0				45.6
2017	16-Mar-17	11	615.1			0				215.5
2017	16-Mar-17	12	559.9			0				331.6
2017	16-Mar-17	13	394.2			0				328.2
2017	16-Mar-17	14	264.3			0				302.9
2017	16-Mar-17	15	169			0				381.8
2017	16-Mar-17	16	129.3			0				389
2017	16-Mar-17	17	100.2			0				450.7
2017	16-Mar-17	18	127.2			0				709.3
2017	16-Mar-17	19	192.1			0				981.1
2017	16-Mar-17	20	406.8			0				1072.7
2017	16-Mar-17	21	387.9			0				1030.2
2017	16-Mar-17	22	271.4			0				794
2017	16-Mar-17	23	159.4			0				777.3
2017	17-Mar-17	0	136.2			0				801.8
2017	17-Mar-17	1	128.5			0				775.6
2017	17-Mar-17	2	202			0				525.3
2017	17-Mar-17	3	155.8			0				445.1
2017	17-Mar-17	4	175.9			0				357.6
2017	17-Mar-17	5	190			0				209.4
2017	17-Mar-17	6	342.4			0				34.1
2017	17-Mar-17	7	454.6			0				
2017	17-Mar-17	8	463.1			0				
2017	17-Mar-17	9	473.2			0				
2017	17-Mar-17	10	467.5			0				
2017	17-Mar-17	11	425.2			0				
2017	17-Mar-17	12	404.8			0				
2017	17-Mar-17	13	271			0				
2017	17-Mar-17	14	191.4			0				
2017	17-Mar-17	15	127.7			0				
2017	17-Mar-17	16	77.3			0				
2017	17-Mar-17	17	69.7			0				
2017	17-Mar-17	18	142.3			0				
2017	17-Mar-17	19	153.9			0				
2017	17-Mar-17	20	122.1			0				
2017	17-Mar-17	21	0			0				
2017	17-Mar-17	22	0			0				
2017	17-Mar-17	23				0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Mar-17	0				0				
2017	18-Mar-17	1				0				
2017	18-Mar-17	2				0				
2017	18-Mar-17	3				0				
2017	18-Mar-17	4				0				
2017	18-Mar-17	5				0				
2017	18-Mar-17	6				0				
2017	18-Mar-17	7				0				
2017	18-Mar-17	8				0				
2017	18-Mar-17	9				0				
2017	18-Mar-17	10				0				
2017	18-Mar-17	11				0				
2017	18-Mar-17	12				0				
2017	18-Mar-17	13				0				
2017	18-Mar-17	14				0				
2017	18-Mar-17	15				0				
2017	18-Mar-17	16				0				
2017	18-Mar-17	17				0				
2017	18-Mar-17	18				0				
2017	18-Mar-17	19				0				
2017	18-Mar-17	20				0				
2017	18-Mar-17	21				0				
2017	18-Mar-17	22				0				
2017	18-Mar-17	23				0				
2017	19-Mar-17	0				0				
2017	19-Mar-17	1				0				
2017	19-Mar-17	2				0				
2017	19-Mar-17	3				0				
2017	19-Mar-17	4				0				
2017	19-Mar-17	5				0				
2017	19-Mar-17	6				0				
2017	19-Mar-17	7				0				
2017	19-Mar-17	8				0				
2017	19-Mar-17	9				0				
2017	19-Mar-17	10				0				
2017	19-Mar-17	11				0				
2017	19-Mar-17	12				0				
2017	19-Mar-17	13				0				
2017	19-Mar-17	14				0				
2017	19-Mar-17	15				0				
2017	19-Mar-17	16				0				
2017	19-Mar-17	17				0				
2017	19-Mar-17	18				0				
2017	19-Mar-17	19				0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	19-Mar-17	20				0				
2017	19-Mar-17	21				0				
2017	19-Mar-17	22				0				
2017	19-Mar-17	23				0				
2017	20-Mar-17	0				0				
2017	20-Mar-17	1				0				
2017	20-Mar-17	2				0				
2017	20-Mar-17	3				0				
2017	20-Mar-17	4				0				
2017	20-Mar-17	5				0				
2017	20-Mar-17	6								
2017	20-Mar-17	7								
2017	20-Mar-17	8								
2017	20-Mar-17	9								
2017	20-Mar-17	10								
2017	20-Mar-17	11								
2017	20-Mar-17	12								
2017	20-Mar-17	13								
2017	20-Mar-17	14								
2017	20-Mar-17	15								
2017	20-Mar-17	16								
2017	20-Mar-17	17								
2017	20-Mar-17	18								
2017	20-Mar-17	19								
2017	20-Mar-17	20								
2017	20-Mar-17	21								
2017	20-Mar-17	22								
2017	20-Mar-17	23								
2017	21-Mar-17	0								
2017	21-Mar-17	1								
2017	21-Mar-17	2								
2017	21-Mar-17	3								
2017	21-Mar-17	4								
2017	21-Mar-17	5								
2017	21-Mar-17	6								
2017	21-Mar-17	7								
2017	21-Mar-17	8								
2017	21-Mar-17	9								
2017	21-Mar-17	10								
2017	21-Mar-17	11								
2017	21-Mar-17	12								
2017	21-Mar-17	13								
2017	21-Mar-17	14								
2017	21-Mar-17	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	21-Mar-17	16								
2017	21-Mar-17	17								
2017	21-Mar-17	18								
2017	21-Mar-17	19								
2017	21-Mar-17	20								
2017	21-Mar-17	21								
2017	21-Mar-17	22								
2017	21-Mar-17	23								
2017	22-Mar-17	0							0	
2017	22-Mar-17	1							0	
2017	22-Mar-17	2							1.1	
2017	22-Mar-17	3							27.8	
2017	22-Mar-17	4							41.5	
2017	22-Mar-17	5							38.3	
2017	22-Mar-17	6							43.1	
2017	22-Mar-17	7							63.4	
2017	22-Mar-17	8							83.7	
2017	22-Mar-17	9							57.4	
2017	22-Mar-17	10							70.2	
2017	22-Mar-17	11							90.3	
2017	22-Mar-17	12				0			62.8	
2017	22-Mar-17	13				0			78.4	
2017	22-Mar-17	14				0			78.3	
2017	22-Mar-17	15				0			92.6	
2017	22-Mar-17	16				0			94.3	
2017	22-Mar-17	17				0			107.5	
2017	22-Mar-17	18							146.6	
2017	22-Mar-17	19							163.4	
2017	22-Mar-17	20							190.3	
2017	22-Mar-17	21							169.1	
2017	22-Mar-17	22							169.5	
2017	22-Mar-17	23							214.6	
2017	23-Mar-17	0							186.5	
2017	23-Mar-17	1							104.7	
2017	23-Mar-17	2							0.795	
2017	23-Mar-17	3								
2017	23-Mar-17	4								
2017	23-Mar-17	5								
2017	23-Mar-17	6								
2017	23-Mar-17	7								
2017	23-Mar-17	8								
2017	23-Mar-17	9								
2017	23-Mar-17	10								
2017	23-Mar-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	23-Mar-17	12								
2017	23-Mar-17	13								
2017	23-Mar-17	14								
2017	23-Mar-17	15								
2017	23-Mar-17	16								
2017	23-Mar-17	17								
2017	23-Mar-17	18								
2017	23-Mar-17	19								
2017	23-Mar-17	20								
2017	23-Mar-17	21								
2017	23-Mar-17	22								
2017	23-Mar-17	23								
2017	24-Mar-17	0								
2017	24-Mar-17	1								
2017	24-Mar-17	2								
2017	24-Mar-17	3								
2017	24-Mar-17	4								
2017	24-Mar-17	5								
2017	24-Mar-17	6								
2017	24-Mar-17	7								
2017	24-Mar-17	8								
2017	24-Mar-17	9								
2017	24-Mar-17	10								
2017	24-Mar-17	11								
2017	24-Mar-17	12								
2017	24-Mar-17	13								
2017	24-Mar-17	14								
2017	24-Mar-17	15								
2017	24-Mar-17	16								
2017	24-Mar-17	17								
2017	24-Mar-17	18								
2017	24-Mar-17	19								
2017	24-Mar-17	20								
2017	24-Mar-17	21								
2017	24-Mar-17	22								
2017	24-Mar-17	23								
2017	25-Mar-17	0								
2017	25-Mar-17	1								
2017	25-Mar-17	2								
2017	25-Mar-17	3								
2017	25-Mar-17	4								
2017	25-Mar-17	5								
2017	25-Mar-17	6								
2017	25-Mar-17	7								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	25-Mar-17	8								
2017	25-Mar-17	9								
2017	25-Mar-17	10								
2017	25-Mar-17	11								
2017	25-Mar-17	12								
2017	25-Mar-17	13								
2017	25-Mar-17	14								
2017	25-Mar-17	15								
2017	25-Mar-17	16								
2017	25-Mar-17	17								
2017	25-Mar-17	18								
2017	25-Mar-17	19								
2017	25-Mar-17	20								
2017	25-Mar-17	21								
2017	25-Mar-17	22								
2017	25-Mar-17	23								
2017	26-Mar-17	0								
2017	26-Mar-17	1								
2017	26-Mar-17	2								
2017	26-Mar-17	3								
2017	26-Mar-17	4								
2017	26-Mar-17	5								
2017	26-Mar-17	6								
2017	26-Mar-17	7								
2017	26-Mar-17	8								
2017	26-Mar-17	9								
2017	26-Mar-17	10								
2017	26-Mar-17	11								
2017	26-Mar-17	12								
2017	26-Mar-17	13								
2017	26-Mar-17	14								
2017	26-Mar-17	15								
2017	26-Mar-17	16								
2017	26-Mar-17	17								
2017	26-Mar-17	18								
2017	26-Mar-17	19								
2017	26-Mar-17	20								
2017	26-Mar-17	21								
2017	26-Mar-17	22								
2017	26-Mar-17	23								
2017	27-Mar-17	0								
2017	27-Mar-17	1								
2017	27-Mar-17	2								
2017	27-Mar-17	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	27-Mar-17	4								
2017	27-Mar-17	5								
2017	27-Mar-17	6								
2017	27-Mar-17	7								
2017	27-Mar-17	8								
2017	27-Mar-17	9								
2017	27-Mar-17	10								
2017	27-Mar-17	11								
2017	27-Mar-17	12								
2017	27-Mar-17	13								
2017	27-Mar-17	14								
2017	27-Mar-17	15								
2017	27-Mar-17	16								
2017	27-Mar-17	17								
2017	27-Mar-17	18								
2017	27-Mar-17	19								
2017	27-Mar-17	20								
2017	27-Mar-17	21								
2017	27-Mar-17	22								
2017	27-Mar-17	23								
2017	28-Mar-17	0	0							
2017	28-Mar-17	1	0							
2017	28-Mar-17	2	0							
2017	28-Mar-17	3	0							
2017	28-Mar-17	4	0							
2017	28-Mar-17	5	0							
2017	28-Mar-17	6	0							
2017	28-Mar-17	7	0							
2017	28-Mar-17	8	0							
2017	28-Mar-17	9	0							
2017	28-Mar-17	10	1.4							
2017	28-Mar-17	11	1.6							
2017	28-Mar-17	12	1.7							
2017	28-Mar-17	13	3.3							
2017	28-Mar-17	14	12.2							
2017	28-Mar-17	15	33.9							
2017	28-Mar-17	16	64.3							
2017	28-Mar-17	17	60.2							
2017	28-Mar-17	18	55.1							
2017	28-Mar-17	19	58.3							
2017	28-Mar-17	20	72.1							
2017	28-Mar-17	21	59.6							
2017	28-Mar-17	22	44.9							
2017	28-Mar-17	23	40.4							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	29-Mar-17	0	45							
2017	29-Mar-17	1	49.7							
2017	29-Mar-17	2	45.9							
2017	29-Mar-17	3	47.4							
2017	29-Mar-17	4	44.6							
2017	29-Mar-17	5	54.2							
2017	29-Mar-17	6	53.6							
2017	29-Mar-17	7	60.5							
2017	29-Mar-17	8	59.5							
2017	29-Mar-17	9	67.3							
2017	29-Mar-17	10	60.7							
2017	29-Mar-17	11	49.9							
2017	29-Mar-17	12	51.8							
2017	29-Mar-17	13	65.5							
2017	29-Mar-17	14	141.1							
2017	29-Mar-17	15	285							
2017	29-Mar-17	16	407.9							
2017	29-Mar-17	17	304.6							
2017	29-Mar-17	18	200.1							
2017	29-Mar-17	19	190.9							
2017	29-Mar-17	20	195.4							
2017	29-Mar-17	21	141.4							
2017	29-Mar-17	22	92.2							
2017	29-Mar-17	23	75.2							
2017	30-Mar-17	0	48.1							
2017	30-Mar-17	1	50.7							
2017	30-Mar-17	2	46.6							
2017	30-Mar-17	3	49.5							
2017	30-Mar-17	4	71.8							
2017	30-Mar-17	5	155.8							
2017	30-Mar-17	6	266							
2017	30-Mar-17	7	326.4							
2017	30-Mar-17	8	266.9							
2017	30-Mar-17	9	270.7							
2017	30-Mar-17	10	340.1							
2017	30-Mar-17	11	350.2							
2017	30-Mar-17	12	317.6							
2017	30-Mar-17	13	298.1							
2017	30-Mar-17	14	313.1							
2017	30-Mar-17	15	330.5							
2017	30-Mar-17	16	314.9							
2017	30-Mar-17	17	281.2							
2017	30-Mar-17	18	291.1							
2017	30-Mar-17	19	298.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	30-Mar-17	20	290.3							
2017	30-Mar-17	21	254.3							
2017	30-Mar-17	22	215.9							
2017	30-Mar-17	23	136.5							
2017	31-Mar-17	0	73.1							
2017	31-Mar-17	1	40							
2017	31-Mar-17	2	36.6							
2017	31-Mar-17	3	39.5							
2017	31-Mar-17	4	52.2							
2017	31-Mar-17	5	138.8							
2017	31-Mar-17	6	203.4							
2017	31-Mar-17	7	211.4							
2017	31-Mar-17	8	219							
2017	31-Mar-17	9	204.3							
2017	31-Mar-17	10	303.8							
2017	31-Mar-17	11	325.9							
2017	31-Mar-17	12	496.4							
2017	31-Mar-17	13	347.1							
2017	31-Mar-17	14	205.9							
2017	31-Mar-17	15	150.8							
2017	31-Mar-17	16	151.1							
2017	31-Mar-17	17	119.2							
2017	31-Mar-17	18	126.4							
2017	31-Mar-17	19	155.2							
2017	31-Mar-17	20	196.5							
2017	31-Mar-17	21	142							
2017	31-Mar-17	22	94.1							
2017	31-Mar-17	23	96.9							
2017	1-Apr-17	0	78.7							
2017	1-Apr-17	1	68.2							
2017	1-Apr-17	2	70.8							
2017	1-Apr-17	3	70.4							
2017	1-Apr-17	4	62.5							
2017	1-Apr-17	5	98.7							
2017	1-Apr-17	6	128.4							
2017	1-Apr-17	7	175.7							
2017	1-Apr-17	8	323.9							
2017	1-Apr-17	9	204.7							
2017	1-Apr-17	10	300.4							
2017	1-Apr-17	11	256.5							
2017	1-Apr-17	12	233.9							
2017	1-Apr-17	13	173.5							
2017	1-Apr-17	14	168.7							
2017	1-Apr-17	15	186.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	1-Apr-17	16	201.2							
2017	1-Apr-17	17	219.6							
2017	1-Apr-17	18	283.7							
2017	1-Apr-17	19	229.2							
2017	1-Apr-17	20	186.6							
2017	1-Apr-17	21	139.3							
2017	1-Apr-17	22	129.2							
2017	1-Apr-17	23	65.3							
2017	2-Apr-17	0	60.3							
2017	2-Apr-17	1	4.928							
2017	2-Apr-17	2								
2017	2-Apr-17	3								
2017	2-Apr-17	4								
2017	2-Apr-17	5								
2017	2-Apr-17	6								
2017	2-Apr-17	7								
2017	2-Apr-17	8								
2017	2-Apr-17	9								
2017	2-Apr-17	10								
2017	2-Apr-17	11								
2017	2-Apr-17	12								
2017	2-Apr-17	13								
2017	2-Apr-17	14								
2017	2-Apr-17	15								
2017	2-Apr-17	16								
2017	2-Apr-17	17								
2017	2-Apr-17	18								
2017	2-Apr-17	19								
2017	2-Apr-17	20								
2017	2-Apr-17	21								
2017	2-Apr-17	22								
2017	2-Apr-17	23								
2017	3-Apr-17	0								
2017	3-Apr-17	1								
2017	3-Apr-17	2								
2017	3-Apr-17	3								
2017	3-Apr-17	4								
2017	3-Apr-17	5								
2017	3-Apr-17	6								
2017	3-Apr-17	7								
2017	3-Apr-17	8								
2017	3-Apr-17	9								
2017	3-Apr-17	10								
2017	3-Apr-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	3-Apr-17	12								
2017	3-Apr-17	13								
2017	3-Apr-17	14								
2017	3-Apr-17	15								
2017	3-Apr-17	16								
2017	3-Apr-17	17								
2017	3-Apr-17	18								
2017	3-Apr-17	19								
2017	3-Apr-17	20								
2017	3-Apr-17	21								
2017	3-Apr-17	22								
2017	3-Apr-17	23								
2017	4-Apr-17	0								
2017	4-Apr-17	1								
2017	4-Apr-17	2								
2017	4-Apr-17	3								
2017	4-Apr-17	4								
2017	4-Apr-17	5								
2017	4-Apr-17	6								
2017	4-Apr-17	7								
2017	4-Apr-17	8								
2017	4-Apr-17	9								
2017	4-Apr-17	10								
2017	4-Apr-17	11								
2017	4-Apr-17	12								
2017	4-Apr-17	13								
2017	4-Apr-17	14								
2017	4-Apr-17	15								
2017	4-Apr-17	16								
2017	4-Apr-17	17								
2017	4-Apr-17	18								
2017	4-Apr-17	19								
2017	4-Apr-17	20								
2017	4-Apr-17	21								
2017	4-Apr-17	22								
2017	4-Apr-17	23								
2017	5-Apr-17	0								
2017	5-Apr-17	1								
2017	5-Apr-17	2								
2017	5-Apr-17	3								
2017	5-Apr-17	4								
2017	5-Apr-17	5								
2017	5-Apr-17	6								
2017	5-Apr-17	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	5-Apr-17	8								
2017	5-Apr-17	9								
2017	5-Apr-17	10								
2017	5-Apr-17	11								
2017	5-Apr-17	12								
2017	5-Apr-17	13								
2017	5-Apr-17	14								
2017	5-Apr-17	15								
2017	5-Apr-17	16								
2017	5-Apr-17	17								
2017	5-Apr-17	18								
2017	5-Apr-17	19								
2017	5-Apr-17	20								
2017	5-Apr-17	21								
2017	5-Apr-17	22								
2017	5-Apr-17	23								
2017	6-Apr-17	0								
2017	6-Apr-17	1								
2017	6-Apr-17	2								
2017	6-Apr-17	3								
2017	6-Apr-17	4								
2017	6-Apr-17	5								
2017	6-Apr-17	6								
2017	6-Apr-17	7								
2017	6-Apr-17	8								
2017	6-Apr-17	9								
2017	6-Apr-17	10								
2017	6-Apr-17	11								
2017	6-Apr-17	12								
2017	6-Apr-17	13								
2017	6-Apr-17	14								
2017	6-Apr-17	15								
2017	6-Apr-17	16								
2017	6-Apr-17	17								
2017	6-Apr-17	18								
2017	6-Apr-17	19								
2017	6-Apr-17	20								
2017	6-Apr-17	21								
2017	6-Apr-17	22								
2017	6-Apr-17	23								
2017	7-Apr-17	0								
2017	7-Apr-17	1								
2017	7-Apr-17	2								
2017	7-Apr-17	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Apr-17	4								
2017	7-Apr-17	5								
2017	7-Apr-17	6								
2017	7-Apr-17	7								
2017	7-Apr-17	8								
2017	7-Apr-17	9								
2017	7-Apr-17	10								
2017	7-Apr-17	11								
2017	7-Apr-17	12								
2017	7-Apr-17	13								
2017	7-Apr-17	14								
2017	7-Apr-17	15								
2017	7-Apr-17	16								
2017	7-Apr-17	17								
2017	7-Apr-17	18								
2017	7-Apr-17	19								
2017	7-Apr-17	20								
2017	7-Apr-17	21								
2017	7-Apr-17	22								
2017	7-Apr-17	23								
2017	8-Apr-17	0								
2017	8-Apr-17	1								
2017	8-Apr-17	2								
2017	8-Apr-17	3								
2017	8-Apr-17	4								
2017	8-Apr-17	5								
2017	8-Apr-17	6								
2017	8-Apr-17	7								
2017	8-Apr-17	8								
2017	8-Apr-17	9								
2017	8-Apr-17	10								
2017	8-Apr-17	11								
2017	8-Apr-17	12								
2017	8-Apr-17	13								
2017	8-Apr-17	14								
2017	8-Apr-17	15								
2017	8-Apr-17	16								
2017	8-Apr-17	17								
2017	8-Apr-17	18								
2017	8-Apr-17	19								
2017	8-Apr-17	20								
2017	8-Apr-17	21								
2017	8-Apr-17	22								
2017	8-Apr-17	23								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	9-Apr-17	0								
2017	9-Apr-17	1								
2017	9-Apr-17	2								
2017	9-Apr-17	3								
2017	9-Apr-17	4								
2017	9-Apr-17	5								
2017	9-Apr-17	6								
2017	9-Apr-17	7								
2017	9-Apr-17	8								
2017	9-Apr-17	9								
2017	9-Apr-17	10								
2017	9-Apr-17	11								
2017	9-Apr-17	12								
2017	9-Apr-17	13								
2017	9-Apr-17	14								
2017	9-Apr-17	15								
2017	9-Apr-17	16								
2017	9-Apr-17	17								
2017	9-Apr-17	18								
2017	9-Apr-17	19								
2017	9-Apr-17	20								
2017	9-Apr-17	21								
2017	9-Apr-17	22								
2017	9-Apr-17	23								
2017	10-Apr-17	0								
2017	10-Apr-17	1								
2017	10-Apr-17	2								
2017	10-Apr-17	3								
2017	10-Apr-17	4								
2017	10-Apr-17	5								
2017	10-Apr-17	6								
2017	10-Apr-17	7								
2017	10-Apr-17	8								
2017	10-Apr-17	9								
2017	10-Apr-17	10								
2017	10-Apr-17	11								
2017	10-Apr-17	12								
2017	10-Apr-17	13								
2017	10-Apr-17	14								
2017	10-Apr-17	15								
2017	10-Apr-17	16								
2017	10-Apr-17	17								
2017	10-Apr-17	18								
2017	10-Apr-17	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	10-Apr-17	20								
2017	10-Apr-17	21								
2017	10-Apr-17	22								
2017	10-Apr-17	23								
2017	11-Apr-17	0								
2017	11-Apr-17	1								
2017	11-Apr-17	2								
2017	11-Apr-17	3								
2017	11-Apr-17	4								
2017	11-Apr-17	5								
2017	11-Apr-17	6								
2017	11-Apr-17	7								
2017	11-Apr-17	8								
2017	11-Apr-17	9								
2017	11-Apr-17	10								
2017	11-Apr-17	11								
2017	11-Apr-17	12								
2017	11-Apr-17	13								
2017	11-Apr-17	14								
2017	11-Apr-17	15								
2017	11-Apr-17	16								
2017	11-Apr-17	17								
2017	11-Apr-17	18								
2017	11-Apr-17	19								
2017	11-Apr-17	20								
2017	11-Apr-17	21								
2017	11-Apr-17	22								
2017	11-Apr-17	23								
2017	12-Apr-17	0								
2017	12-Apr-17	1								
2017	12-Apr-17	2								
2017	12-Apr-17	3								
2017	12-Apr-17	4								
2017	12-Apr-17	5								
2017	12-Apr-17	6								
2017	12-Apr-17	7								
2017	12-Apr-17	8								
2017	12-Apr-17	9								
2017	12-Apr-17	10								
2017	12-Apr-17	11								
2017	12-Apr-17	12								
2017	12-Apr-17	13								
2017	12-Apr-17	14								
2017	12-Apr-17	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	12-Apr-17	16								
2017	12-Apr-17	17								
2017	12-Apr-17	18								
2017	12-Apr-17	19								
2017	12-Apr-17	20								
2017	12-Apr-17	21								
2017	12-Apr-17	22								
2017	12-Apr-17	23								
2017	13-Apr-17	0								
2017	13-Apr-17	1								
2017	13-Apr-17	2								
2017	13-Apr-17	3								
2017	13-Apr-17	4								
2017	13-Apr-17	5								
2017	13-Apr-17	6								
2017	13-Apr-17	7								
2017	13-Apr-17	8								
2017	13-Apr-17	9								
2017	13-Apr-17	10								
2017	13-Apr-17	11								
2017	13-Apr-17	12								
2017	13-Apr-17	13								
2017	13-Apr-17	14								
2017	13-Apr-17	15								
2017	13-Apr-17	16								
2017	13-Apr-17	17								
2017	13-Apr-17	18								
2017	13-Apr-17	19								
2017	13-Apr-17	20								
2017	13-Apr-17	21								
2017	13-Apr-17	22								
2017	13-Apr-17	23								
2017	14-Apr-17	0								
2017	14-Apr-17	1								
2017	14-Apr-17	2								
2017	14-Apr-17	3								
2017	14-Apr-17	4								
2017	14-Apr-17	5								
2017	14-Apr-17	6								
2017	14-Apr-17	7								
2017	14-Apr-17	8								
2017	14-Apr-17	9								
2017	14-Apr-17	10								
2017	14-Apr-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	14-Apr-17	12								
2017	14-Apr-17	13								
2017	14-Apr-17	14								
2017	14-Apr-17	15								
2017	14-Apr-17	16								
2017	14-Apr-17	17								
2017	14-Apr-17	18								
2017	14-Apr-17	19								
2017	14-Apr-17	20								
2017	14-Apr-17	21								
2017	14-Apr-17	22								
2017	14-Apr-17	23								
2017	15-Apr-17	0								
2017	15-Apr-17	1								
2017	15-Apr-17	2								
2017	15-Apr-17	3								
2017	15-Apr-17	4								
2017	15-Apr-17	5								
2017	15-Apr-17	6								
2017	15-Apr-17	7								
2017	15-Apr-17	8								
2017	15-Apr-17	9								
2017	15-Apr-17	10								
2017	15-Apr-17	11								
2017	15-Apr-17	12								
2017	15-Apr-17	13								
2017	15-Apr-17	14								
2017	15-Apr-17	15								
2017	15-Apr-17	16								
2017	15-Apr-17	17								
2017	15-Apr-17	18								
2017	15-Apr-17	19								
2017	15-Apr-17	20								
2017	15-Apr-17	21								
2017	15-Apr-17	22								
2017	15-Apr-17	23								
2017	16-Apr-17	0								
2017	16-Apr-17	1								
2017	16-Apr-17	2								
2017	16-Apr-17	3								
2017	16-Apr-17	4								
2017	16-Apr-17	5								
2017	16-Apr-17	6								
2017	16-Apr-17	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	16-Apr-17	8								
2017	16-Apr-17	9								
2017	16-Apr-17	10								
2017	16-Apr-17	11								
2017	16-Apr-17	12								
2017	16-Apr-17	13								
2017	16-Apr-17	14								
2017	16-Apr-17	15								
2017	16-Apr-17	16								
2017	16-Apr-17	17								
2017	16-Apr-17	18								
2017	16-Apr-17	19								
2017	16-Apr-17	20								
2017	16-Apr-17	21								
2017	16-Apr-17	22								
2017	16-Apr-17	23								
2017	17-Apr-17	0								
2017	17-Apr-17	1								
2017	17-Apr-17	2								
2017	17-Apr-17	3								
2017	17-Apr-17	4								
2017	17-Apr-17	5								
2017	17-Apr-17	6								
2017	17-Apr-17	7								
2017	17-Apr-17	8								
2017	17-Apr-17	9								
2017	17-Apr-17	10								
2017	17-Apr-17	11								
2017	17-Apr-17	12								
2017	17-Apr-17	13								
2017	17-Apr-17	14								
2017	17-Apr-17	15								
2017	17-Apr-17	16								
2017	17-Apr-17	17								
2017	17-Apr-17	18								
2017	17-Apr-17	19								
2017	17-Apr-17	20								
2017	17-Apr-17	21								
2017	17-Apr-17	22								
2017	17-Apr-17	23								
2017	18-Apr-17	0								
2017	18-Apr-17	1								
2017	18-Apr-17	2								
2017	18-Apr-17	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Apr-17	4								
2017	18-Apr-17	5								
2017	18-Apr-17	6								
2017	18-Apr-17	7								
2017	18-Apr-17	8								
2017	18-Apr-17	9								
2017	18-Apr-17	10								
2017	18-Apr-17	11								
2017	18-Apr-17	12								
2017	18-Apr-17	13								
2017	18-Apr-17	14								
2017	18-Apr-17	15								
2017	18-Apr-17	16								
2017	18-Apr-17	17								
2017	18-Apr-17	18								
2017	18-Apr-17	19								
2017	18-Apr-17	20								
2017	18-Apr-17	21								
2017	18-Apr-17	22								
2017	18-Apr-17	23								
2017	19-Apr-17	0								
2017	19-Apr-17	1								
2017	19-Apr-17	2								
2017	19-Apr-17	3								
2017	19-Apr-17	4								
2017	19-Apr-17	5								
2017	19-Apr-17	6								
2017	19-Apr-17	7								
2017	19-Apr-17	8								
2017	19-Apr-17	9								
2017	19-Apr-17	10								
2017	19-Apr-17	11								
2017	19-Apr-17	12								
2017	19-Apr-17	13								
2017	19-Apr-17	14								
2017	19-Apr-17	15								
2017	19-Apr-17	16								
2017	19-Apr-17	17								
2017	19-Apr-17	18								
2017	19-Apr-17	19								
2017	19-Apr-17	20								
2017	19-Apr-17	21								
2017	19-Apr-17	22								
2017	19-Apr-17	23								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	20-Apr-17	0								
2017	20-Apr-17	1								
2017	20-Apr-17	2								
2017	20-Apr-17	3								
2017	20-Apr-17	4								
2017	20-Apr-17	5								
2017	20-Apr-17	6								
2017	20-Apr-17	7								
2017	20-Apr-17	8								
2017	20-Apr-17	9								
2017	20-Apr-17	10								
2017	20-Apr-17	11								
2017	20-Apr-17	12								
2017	20-Apr-17	13								
2017	20-Apr-17	14								
2017	20-Apr-17	15								
2017	20-Apr-17	16								
2017	20-Apr-17	17								
2017	20-Apr-17	18								
2017	20-Apr-17	19								
2017	20-Apr-17	20								
2017	20-Apr-17	21								
2017	20-Apr-17	22								
2017	20-Apr-17	23								
2017	21-Apr-17	0								
2017	21-Apr-17	1								
2017	21-Apr-17	2								
2017	21-Apr-17	3								
2017	21-Apr-17	4								
2017	21-Apr-17	5								
2017	21-Apr-17	6								
2017	21-Apr-17	7								
2017	21-Apr-17	8								
2017	21-Apr-17	9								
2017	21-Apr-17	10								
2017	21-Apr-17	11								
2017	21-Apr-17	12								
2017	21-Apr-17	13								
2017	21-Apr-17	14								
2017	21-Apr-17	15								
2017	21-Apr-17	16								
2017	21-Apr-17	17								
2017	21-Apr-17	18								
2017	21-Apr-17	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	21-Apr-17	20								
2017	21-Apr-17	21								
2017	21-Apr-17	22								
2017	21-Apr-17	23								
2017	22-Apr-17	0								
2017	22-Apr-17	1								
2017	22-Apr-17	2								
2017	22-Apr-17	3								
2017	22-Apr-17	4								
2017	22-Apr-17	5								
2017	22-Apr-17	6								
2017	22-Apr-17	7								
2017	22-Apr-17	8								
2017	22-Apr-17	9								
2017	22-Apr-17	10								
2017	22-Apr-17	11								
2017	22-Apr-17	12								
2017	22-Apr-17	13								
2017	22-Apr-17	14								
2017	22-Apr-17	15								
2017	22-Apr-17	16								
2017	22-Apr-17	17								
2017	22-Apr-17	18								
2017	22-Apr-17	19								
2017	22-Apr-17	20								
2017	22-Apr-17	21								
2017	22-Apr-17	22								
2017	22-Apr-17	23								
2017	23-Apr-17	0								
2017	23-Apr-17	1								
2017	23-Apr-17	2								
2017	23-Apr-17	3								
2017	23-Apr-17	4								
2017	23-Apr-17	5								
2017	23-Apr-17	6								
2017	23-Apr-17	7								
2017	23-Apr-17	8								
2017	23-Apr-17	9								
2017	23-Apr-17	10								
2017	23-Apr-17	11								
2017	23-Apr-17	12								
2017	23-Apr-17	13								
2017	23-Apr-17	14								
2017	23-Apr-17	15								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	23-Apr-17	16								
2017	23-Apr-17	17								
2017	23-Apr-17	18								
2017	23-Apr-17	19								
2017	23-Apr-17	20								
2017	23-Apr-17	21								
2017	23-Apr-17	22								
2017	23-Apr-17	23								
2017	24-Apr-17	0								
2017	24-Apr-17	1								
2017	24-Apr-17	2								
2017	24-Apr-17	3								
2017	24-Apr-17	4								
2017	24-Apr-17	5								
2017	24-Apr-17	6								
2017	24-Apr-17	7								
2017	24-Apr-17	8								
2017	24-Apr-17	9								
2017	24-Apr-17	10								
2017	24-Apr-17	11								
2017	24-Apr-17	12								
2017	24-Apr-17	13								
2017	24-Apr-17	14								
2017	24-Apr-17	15								
2017	24-Apr-17	16								
2017	24-Apr-17	17								
2017	24-Apr-17	18								
2017	24-Apr-17	19								
2017	24-Apr-17	20								
2017	24-Apr-17	21								
2017	24-Apr-17	22								
2017	24-Apr-17	23								
2017	25-Apr-17	0								
2017	25-Apr-17	1								
2017	25-Apr-17	2								
2017	25-Apr-17	3								
2017	25-Apr-17	4								
2017	25-Apr-17	5								
2017	25-Apr-17	6								
2017	25-Apr-17	7								
2017	25-Apr-17	8								
2017	25-Apr-17	9								
2017	25-Apr-17	10								
2017	25-Apr-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	25-Apr-17	12								
2017	25-Apr-17	13								
2017	25-Apr-17	14								
2017	25-Apr-17	15								
2017	25-Apr-17	16								
2017	25-Apr-17	17								
2017	25-Apr-17	18								
2017	25-Apr-17	19								
2017	25-Apr-17	20								
2017	25-Apr-17	21								
2017	25-Apr-17	22								
2017	25-Apr-17	23								
2017	26-Apr-17	0								
2017	26-Apr-17	1								
2017	26-Apr-17	2								
2017	26-Apr-17	3								
2017	26-Apr-17	4								
2017	26-Apr-17	5								
2017	26-Apr-17	6								
2017	26-Apr-17	7								
2017	26-Apr-17	8								
2017	26-Apr-17	9								
2017	26-Apr-17	10								
2017	26-Apr-17	11								
2017	26-Apr-17	12								
2017	26-Apr-17	13								
2017	26-Apr-17	14								
2017	26-Apr-17	15								
2017	26-Apr-17	16								
2017	26-Apr-17	17								
2017	26-Apr-17	18								
2017	26-Apr-17	19								
2017	26-Apr-17	20								
2017	26-Apr-17	21								
2017	26-Apr-17	22								
2017	26-Apr-17	23								
2017	27-Apr-17	0								
2017	27-Apr-17	1								
2017	27-Apr-17	2								
2017	27-Apr-17	3								
2017	27-Apr-17	4								
2017	27-Apr-17	5								
2017	27-Apr-17	6								
2017	27-Apr-17	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	27-Apr-17	8								
2017	27-Apr-17	9								
2017	27-Apr-17	10								
2017	27-Apr-17	11								
2017	27-Apr-17	12				0				
2017	27-Apr-17	13			0.032	0				
2017	27-Apr-17	14			0.034	0				
2017	27-Apr-17	15		0	0.028	0				
2017	27-Apr-17	16		0	0.061	0				
2017	27-Apr-17	17		0	0.061	0				
2017	27-Apr-17	18		0	0.061	0				
2017	27-Apr-17	19		3.9	0.061	0				
2017	27-Apr-17	20		3.9	0.064	0				
2017	27-Apr-17	21		4.9	0.079	0				
2017	27-Apr-17	22		5.1	0.063	0				
2017	27-Apr-17	23		4.7	0.075	0				
2017	28-Apr-17	0		5.9	0.152	0				
2017	28-Apr-17	1		5.9	0.281	0				
2017	28-Apr-17	2		5.9	0.314	0				
2017	28-Apr-17	3		5.9	0.311	0				
2017	28-Apr-17	4		4.7	0.311	9.7				
2017	28-Apr-17	5		4.7	0.311	428.3				
2017	28-Apr-17	6		4.7	0.314	617.3				
2017	28-Apr-17	7		17.7	0.313	653.6				
2017	28-Apr-17	8		26.2	0.308	631				
2017	28-Apr-17	9		36.9	0.311	513.5				
2017	28-Apr-17	10		68.5	0.31	598.9				
2017	28-Apr-17	11		123.8	0.311	343.4				
2017	28-Apr-17	12		88.4	0.326	488.7				
2017	28-Apr-17	13		54	0.195	781.8				
2017	28-Apr-17	14		48.6	0.062	721				
2017	28-Apr-17	15		42.9	0.046	770.8				
2017	28-Apr-17	16		63.8		756.8				
2017	28-Apr-17	17		71.4		725.7				
2017	28-Apr-17	18		75.9		774.3				
2017	28-Apr-17	19		91.1		752.5				
2017	28-Apr-17	20		114.6		765.7				
2017	28-Apr-17	21		95.5		777				
2017	28-Apr-17	22		67.5		814.5				
2017	28-Apr-17	23		53.7		962.2				
2017	29-Apr-17	0		37.5		766.2				
2017	29-Apr-17	1		37.1		763.5				
2017	29-Apr-17	2		39		608				
2017	29-Apr-17	3		39.4		489.8				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	29-Apr-17	4		35.4		483.2				
2017	29-Apr-17	5		33.3		90.2				
2017	29-Apr-17	6		32.8		0				
2017	29-Apr-17	7		41.4						
2017	29-Apr-17	8		53.6						
2017	29-Apr-17	9		52.7						
2017	29-Apr-17	10		56.3						
2017	29-Apr-17	11		66.2						
2017	29-Apr-17	12		73.9						
2017	29-Apr-17	13		76.9						
2017	29-Apr-17	14		98.8						
2017	29-Apr-17	15		107.1						
2017	29-Apr-17	16		131.1						
2017	29-Apr-17	17		59.6						
2017	29-Apr-17	18		21.1						
2017	29-Apr-17	19		14.8						
2017	29-Apr-17	20		14.8						
2017	29-Apr-17	21		14.8						
2017	29-Apr-17	22		16.3						
2017	29-Apr-17	23		28						
2017	30-Apr-17	0		37.5						
2017	30-Apr-17	1		50.6						
2017	30-Apr-17	2		73.5						
2017	30-Apr-17	3		81						
2017	30-Apr-17	4		72.8						
2017	30-Apr-17	5		71.3						
2017	30-Apr-17	6		73						
2017	30-Apr-17	7		36.7						
2017	30-Apr-17	8		33.3						
2017	30-Apr-17	9		36.5						
2017	30-Apr-17	10		42						
2017	30-Apr-17	11		60.5						
2017	30-Apr-17	12		98.4						
2017	30-Apr-17	13		176.7						
2017	30-Apr-17	14		309.6						
2017	30-Apr-17	15		320.5						
2017	30-Apr-17	16		293.9						
2017	30-Apr-17	17		278.7						
2017	30-Apr-17	18		255.8						
2017	30-Apr-17	19		248.5						
2017	30-Apr-17	20		251.7						
2017	30-Apr-17	21		239.6						
2017	30-Apr-17	22		202.3						
2017	30-Apr-17	23		145.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	1-May-17	0		112.7						
2017	1-May-17	1		73.3						
2017	1-May-17	2		61.3						
2017	1-May-17	3		54.5						
2017	1-May-17	4		42.3						
2017	1-May-17	5		52.7						
2017	1-May-17	6		60.4						
2017	1-May-17	7		93.1						
2017	1-May-17	8		160.7						
2017	1-May-17	9		163.6						
2017	1-May-17	10		282.1						
2017	1-May-17	11		306.1						
2017	1-May-17	12		369.8						
2017	1-May-17	13		385.2						
2017	1-May-17	14		385.6						
2017	1-May-17	15		360.5						
2017	1-May-17	16		347.3						
2017	1-May-17	17		344.6						
2017	1-May-17	18		337.6						
2017	1-May-17	19		354.2						
2017	1-May-17	20		333.5						
2017	1-May-17	21		332.3						
2017	1-May-17	22		272.9						
2017	1-May-17	23		168.6						
2017	2-May-17	0		120.2						
2017	2-May-17	1		91.4						
2017	2-May-17	2		55.3						
2017	2-May-17	3		47.2						
2017	2-May-17	4		52.6						
2017	2-May-17	5		87.1						
2017	2-May-17	6		101						
2017	2-May-17	7		100.3						
2017	2-May-17	8		146.2						
2017	2-May-17	9		199						
2017	2-May-17	10		340.5						
2017	2-May-17	11		408.1						
2017	2-May-17	12		386.9						
2017	2-May-17	13		370.3						
2017	2-May-17	14		387.2						
2017	2-May-17	15		283.7						
2017	2-May-17	16		233.5						
2017	2-May-17	17		253.2						
2017	2-May-17	18		307.8						
2017	2-May-17	19		332						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	2-May-17	20		347.5						
2017	2-May-17	21		310.5						
2017	2-May-17	22		236						
2017	2-May-17	23		166.9						
2017	3-May-17	0		139.1						
2017	3-May-17	1		110.6						
2017	3-May-17	2		86.6						
2017	3-May-17	3		64.1						
2017	3-May-17	4		46.6						
2017	3-May-17	5		50						
2017	3-May-17	6		77.8						
2017	3-May-17	7		175.3						
2017	3-May-17	8		220.2						
2017	3-May-17	9		298.1						
2017	3-May-17	10		365.2						
2017	3-May-17	11		412.4						
2017	3-May-17	12		371						
2017	3-May-17	13		230.5						
2017	3-May-17	14		236.7						
2017	3-May-17	15		219.7						
2017	3-May-17	16		227.5						
2017	3-May-17	17		283.2						
2017	3-May-17	18		312.6						
2017	3-May-17	19		378.7						
2017	3-May-17	20		415.4						
2017	3-May-17	21		346.1						
2017	3-May-17	22		254.7						
2017	3-May-17	23		165.4						
2017	4-May-17	0		97.8						
2017	4-May-17	1		56.7						
2017	4-May-17	2		55.8						
2017	4-May-17	3		50.8						
2017	4-May-17	4		64.9						
2017	4-May-17	5		120.7						
2017	4-May-17	6		190.8						
2017	4-May-17	7		175.2						
2017	4-May-17	8		207.2						
2017	4-May-17	9		273.1						
2017	4-May-17	10		381.7						
2017	4-May-17	11		445.1						
2017	4-May-17	12		491.7						
2017	4-May-17	13		376.2						
2017	4-May-17	14		236.5						
2017	4-May-17	15		373.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	4-May-17	16		422.8						
2017	4-May-17	17		420.9						
2017	4-May-17	18		329.6						
2017	4-May-17	19		369.6						
2017	4-May-17	20		454.3						
2017	4-May-17	21		377						
2017	4-May-17	22		251.4						
2017	4-May-17	23		158						
2017	5-May-17	0		109.2						
2017	5-May-17	1		92						
2017	5-May-17	2		67.7						
2017	5-May-17	3		60.2						
2017	5-May-17	4		60.5						
2017	5-May-17	5		66.7						
2017	5-May-17	6		88.8						
2017	5-May-17	7		86.6						
2017	5-May-17	8		106.1						
2017	5-May-17	9		137.6						
2017	5-May-17	10		177.5						
2017	5-May-17	11		242.7						
2017	5-May-17	12		245.2						
2017	5-May-17	13		285.4						
2017	5-May-17	14		328.5						
2017	5-May-17	15		338.8						
2017	5-May-17	16		394.7						
2017	5-May-17	17		479.7						
2017	5-May-17	18		539.9						
2017	5-May-17	19		580.9						
2017	5-May-17	20		532.3						
2017	5-May-17	21		433.4						
2017	5-May-17	22		238.7						
2017	5-May-17	23		79.1						
2017	6-May-17	0		68.1						
2017	6-May-17	1		70.2						
2017	6-May-17	2		63.5						
2017	6-May-17	3		65.4						
2017	6-May-17	4		66.7						
2017	6-May-17	5		71.2						
2017	6-May-17	6		71						
2017	6-May-17	7		79.2						
2017	6-May-17	8		84						
2017	6-May-17	9		85.4						
2017	6-May-17	10		85.8						
2017	6-May-17	11		71.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	6-May-17	12		69.4						
2017	6-May-17	13		67.1						
2017	6-May-17	14		65.8						
2017	6-May-17	15		67.8						
2017	6-May-17	16		70.2						
2017	6-May-17	17		72.7						
2017	6-May-17	18		82.6						
2017	6-May-17	19		113.8						
2017	6-May-17	20		196.2						
2017	6-May-17	21		175.5						
2017	6-May-17	22		98.1						
2017	6-May-17	23		75.2						
2017	7-May-17	0		73.4						
2017	7-May-17	1		72.5						
2017	7-May-17	2		73.3						
2017	7-May-17	3		77.8						
2017	7-May-17	4		77.5						
2017	7-May-17	5		76.2						
2017	7-May-17	6		77.8						
2017	7-May-17	7		83.7						
2017	7-May-17	8		80.6						
2017	7-May-17	9		78.4						
2017	7-May-17	10		65						
2017	7-May-17	11		72.7						
2017	7-May-17	12		69.7						
2017	7-May-17	13		69.9						
2017	7-May-17	14		68.7						
2017	7-May-17	15		68.7						
2017	7-May-17	16		68.3						
2017	7-May-17	17		65.3						
2017	7-May-17	18		114.6						
2017	7-May-17	19		114						
2017	7-May-17	20		138						
2017	7-May-17	21		84.8						
2017	7-May-17	22		65						
2017	7-May-17	23		61.2						
2017	8-May-17	0		62.7						
2017	8-May-17	1		61.6						
2017	8-May-17	2		60						
2017	8-May-17	3		62.6						
2017	8-May-17	4		65.3						
2017	8-May-17	5		121						
2017	8-May-17	6		187						
2017	8-May-17	7		307.4						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	8-May-17	8		420.3						
2017	8-May-17	9		450.6						
2017	8-May-17	10		476.5						
2017	8-May-17	11		578.8						
2017	8-May-17	12		588.6						
2017	8-May-17	13		636.8						
2017	8-May-17	14		438.1						
2017	8-May-17	15		507.7						
2017	8-May-17	16		459.7						
2017	8-May-17	17		401.6						
2017	8-May-17	18		336						
2017	8-May-17	19		278.2						
2017	8-May-17	20		382.1						
2017	8-May-17	21		311.7						
2017	8-May-17	22		242						
2017	8-May-17	23		154						
2017	9-May-17	0		92.9						
2017	9-May-17	1		64.6						
2017	9-May-17	2		64.7						
2017	9-May-17	3		123.3						
2017	9-May-17	4		153.4						
2017	9-May-17	5		221.7						
2017	9-May-17	6		298.1						
2017	9-May-17	7		361.7						
2017	9-May-17	8		558.3						
2017	9-May-17	9		632.6						
2017	9-May-17	10		701.1						
2017	9-May-17	11		668.5						
2017	9-May-17	12		670.6						
2017	9-May-17	13		689.1						
2017	9-May-17	14		646.2						
2017	9-May-17	15		637						
2017	9-May-17	16		639.6						
2017	9-May-17	17		658.7						
2017	9-May-17	18		515.6						
2017	9-May-17	19		455.2						
2017	9-May-17	20		505.9						
2017	9-May-17	21		469.4						
2017	9-May-17	22		341.4						
2017	9-May-17	23		204.6						
2017	10-May-17	0		138.6						
2017	10-May-17	1		94.4						
2017	10-May-17	2		90						
2017	10-May-17	3		133.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	10-May-17	4		181.7						
2017	10-May-17	5		287.2						
2017	10-May-17	6		316						
2017	10-May-17	7		550.4						
2017	10-May-17	8		663.4						
2017	10-May-17	9		727.9						
2017	10-May-17	10		726.3						
2017	10-May-17	11		732.2						
2017	10-May-17	12		757						
2017	10-May-17	13		802.3						
2017	10-May-17	14		812.9						
2017	10-May-17	15		688						
2017	10-May-17	16		757.9						
2017	10-May-17	17		785.3						
2017	10-May-17	18		785.8						
2017	10-May-17	19		756.6						
2017	10-May-17	20		810.3						
2017	10-May-17	21		813.4						
2017	10-May-17	22		729.4						
2017	10-May-17	23		566.5						
2017	11-May-17	0		375.9						
2017	11-May-17	1		223.7						
2017	11-May-17	2		159.2						
2017	11-May-17	3		187.8						
2017	11-May-17	4		256.1						
2017	11-May-17	5		355.6						
2017	11-May-17	6		538.9						
2017	11-May-17	7		862.7						
2017	11-May-17	8		834.8						
2017	11-May-17	9		825.9						
2017	11-May-17	10		907.1						
2017	11-May-17	11		972.2						
2017	11-May-17	12		986.2						
2017	11-May-17	13		815.5						
2017	11-May-17	14		848.5						
2017	11-May-17	15		871.7						
2017	11-May-17	16		832.5						
2017	11-May-17	17		668.9						
2017	11-May-17	18		633.1						
2017	11-May-17	19		677.6						
2017	11-May-17	20		717.3						
2017	11-May-17	21		619.7						
2017	11-May-17	22		410						
2017	11-May-17	23		244.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	12-May-17	0		159.3						
2017	12-May-17	1		110.2						
2017	12-May-17	2		95.7						
2017	12-May-17	3		101.6						
2017	12-May-17	4		122.4						
2017	12-May-17	5		279.7						
2017	12-May-17	6		648.8						
2017	12-May-17	7		846.9						
2017	12-May-17	8		850.8						
2017	12-May-17	9		841						
2017	12-May-17	10		841.4						
2017	12-May-17	11		796.7						
2017	12-May-17	12		824.5						
2017	12-May-17	13		799.1						
2017	12-May-17	14		751.4						
2017	12-May-17	15		727.5						
2017	12-May-17	16		698.3						
2017	12-May-17	17		625.3						
2017	12-May-17	18		691.1						
2017	12-May-17	19		702.6						
2017	12-May-17	20		691.4						
2017	12-May-17	21		673.2						
2017	12-May-17	22		626.8						
2017	12-May-17	23		362.5						
2017	13-May-17	0		215.6						
2017	13-May-17	1		158.8						
2017	13-May-17	2		162.6						
2017	13-May-17	3		103.2						
2017	13-May-17	4		115.8						
2017	13-May-17	5		101.7						
2017	13-May-17	6		91.1						
2017	13-May-17	7		186						
2017	13-May-17	8		309.2						
2017	13-May-17	9		544.8						
2017	13-May-17	10		759.1						
2017	13-May-17	11		867.7						
2017	13-May-17	12	0	867.2						
2017	13-May-17	13	0	637.4						
2017	13-May-17	14	0	369						
2017	13-May-17	15	0	322.9						
2017	13-May-17	16	0	424.9						
2017	13-May-17	17	0	617.7						
2017	13-May-17	18	0	757.7						
2017	13-May-17	19	0	696.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	13-May-17	20	0	804.7						
2017	13-May-17	21	0	656.1						
2017	13-May-17	22	0	425.8						
2017	13-May-17	23	0	261.6						
2017	14-May-17	0	22.9	158						
2017	14-May-17	1	33.6	84.5						
2017	14-May-17	2	37.1	106.3						
2017	14-May-17	3	47.4	104.5						
2017	14-May-17	4	51.4	101.2						
2017	14-May-17	5	51.1	107.8						
2017	14-May-17	6	60.2	115.4						
2017	14-May-17	7	69	115.5						
2017	14-May-17	8	122.8	106.7						
2017	14-May-17	9	122.5	108.2						
2017	14-May-17	10	98.2	108						
2017	14-May-17	11	103.9	106.5						
2017	14-May-17	12	73.5	107.9						
2017	14-May-17	13	82	123.7						
2017	14-May-17	14	178.4	215.3						
2017	14-May-17	15	220.4	328						
2017	14-May-17	16	502.4	365.6						
2017	14-May-17	17	1019.3	331						
2017	14-May-17	18	1199.3	226.6						
2017	14-May-17	19	640.4	175.8						
2017	14-May-17	20	240.1	167.2						
2017	14-May-17	21	148.1	127.7						
2017	14-May-17	22	95.4	102.5						
2017	14-May-17	23	71.1	91.2						
2017	15-May-17	0	72.2	90.4						
2017	15-May-17	1	72	90.3						
2017	15-May-17	2	69.6	90.4						
2017	15-May-17	3	69	92.5						
2017	15-May-17	4	72.6	90.9						
2017	15-May-17	5	79.6	89.9						
2017	15-May-17	6	118.3	98.8						
2017	15-May-17	7	141.8	121.1						
2017	15-May-17	8	158.5	151.1						
2017	15-May-17	9	213.2	178.8						
2017	15-May-17	10	170.5	183.5						
2017	15-May-17	11	196.1	209.4						
2017	15-May-17	12	238.6	306.1						
2017	15-May-17	13	278.8	416.8						
2017	15-May-17	14	299.4	395.3						
2017	15-May-17	15	397.6	428.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	15-May-17	16	351.1	426.6						
2017	15-May-17	17	365	527.8						
2017	15-May-17	18	409.8	762.7						
2017	15-May-17	19	392.7	716.3						
2017	15-May-17	20	419.9	804.3						
2017	15-May-17	21	280.7	575.5						
2017	15-May-17	22	181.3	326.7						
2017	15-May-17	23	145.9	193.1			0.97			
2017	16-May-17	0	117.3	132.6			0			
2017	16-May-17	1	77.1	92.2			0			
2017	16-May-17	2	76.5	91.5			0			
2017	16-May-17	3	85.8	96			32.8			
2017	16-May-17	4	98.6	140.6			145.8			
2017	16-May-17	5	132.7	270.2			144.5			
2017	16-May-17	6	182.5	560.7			135.8			
2017	16-May-17	7	203.9	658.5			260.7			
2017	16-May-17	8	312.3	649.2			228			
2017	16-May-17	9	485.7	620.6			256.4			
2017	16-May-17	10	483.1	651.3			258.7			
2017	16-May-17	11	267.5	677.6			194			
2017	16-May-17	12	286.4	675.8			117.5			
2017	16-May-17	13	410.7	678.9			123.5			
2017	16-May-17	14	530.7	667.8			152.1			
2017	16-May-17	15	595.7	756.3			320.5			0
2017	16-May-17	16	623.4	838.2			434.4			0
2017	16-May-17	17	647.3	904.3			558.9			0.1
2017	16-May-17	18	672.7	975.8			1152.4			0
2017	16-May-17	19	640.3	991.8			1480.2			0
2017	16-May-17	20	664.5	977			1578.8			0
2017	16-May-17	21	519.6	844			1987.1			0
2017	16-May-17	22	383.6	729			1797.4			0
2017	16-May-17	23	192.1	473.1			1671.6			0
2017	17-May-17	0	101.6	283.6			1661.8			0
2017	17-May-17	1	80	175.9			1694.5			0
2017	17-May-17	2	88	113.4			1707.9			0
2017	17-May-17	3	90.5	119.2			1714.4			0
2017	17-May-17	4	86.9	117.1			1803.9			0
2017	17-May-17	5	110.9	126.6			1886.9			0
2017	17-May-17	6	121.6	132.5			1929.1			0
2017	17-May-17	7	150.2	166.4			2006.6			63.5
2017	17-May-17	8	257.1	380.3			2435.1			247.4
2017	17-May-17	9	251.2	418			2633.1			431.5
2017	17-May-17	10	305.6	416.4			3124			523.6
2017	17-May-17	11	321.8	492			3423			647.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	17-May-17	12	363.1	498.3			3567.4			704.8
2017	17-May-17	13	435.2	619.6		0	3611.2			783
2017	17-May-17	14	390.5	594.4		0	3567.8			817.5
2017	17-May-17	15	443.9	673.8		0	3593.1			993.2
2017	17-May-17	16	545.9	808.8		0	3655.4			1041.5
2017	17-May-17	17	417.9	665		0	3662.1			945.4
2017	17-May-17	18	388.6	576		0	3618.1			832.4
2017	17-May-17	19	371.7	570		0	3533.1			813.9
2017	17-May-17	20	497.1	723.3		0	3620.2			884.8
2017	17-May-17	21	322.1	485.9	0.008	0	3532.5			796.1
2017	17-May-17	22	348.8	488.8	0.038	0	3335.4			672.4
2017	17-May-17	23	416	553.9	0.046	0	3104.2			566.1
2017	18-May-17	0	233.4	270.4	0.068	0	2793.5			563.8
2017	18-May-17	1	147.1	121.6	0.061	0	2576.4			527.3
2017	18-May-17	2	95.3	107.6	0.046	0	2275.7			397.8
2017	18-May-17	3	90.5	105.4	0.046	0	2195			420.7
2017	18-May-17	4	157.4	136.5	0.047	32.5	2209.4			418.8
2017	18-May-17	5	201.4	225.9	0.069	532.3	2206.9			413.8
2017	18-May-17	6	295.2	332.3	0.047	748.9	2148.9			415.6
2017	18-May-17	7	359.4	512.8	0.054	796	2168.7			413.3
2017	18-May-17	8	420.3	637.6	0.069	771.1	2158.6			428.8
2017	18-May-17	9	359.8	662.5	0.083	801.8	2383.7			471.6
2017	18-May-17	10	361.1	623.8	0.213	768.9	2220.1			412.5
2017	18-May-17	11	476.8	717.8	0.355	631.9	2443.8			445.8
2017	18-May-17	12	522.6	725.4	0.381	838.4	2931.6			713.8
2017	18-May-17	13	587.9	772.3	0.49	739.8	3466.6			971.7
2017	18-May-17	14	611.3	816.3	0.516	1028.6	3754			1052.6
2017	18-May-17	15	644.3	875.4	0.77	1303.7	3813.2			1052.1
2017	18-May-17	16	637.8	895.3	0.804	1388.4	3796.1			1063
2017	18-May-17	17	656.7	911.9	0.754	1395.6	3788.7			1062.3
2017	18-May-17	18	644.3	890	0.685	1396.3	3801.6			1074
2017	18-May-17	19	625.3	870.1	0.541	1294.5	3784.5			1095.6
2017	18-May-17	20	653.6	943.6	0.461	972.7	3704.9			1037.7
2017	18-May-17	21	488.6	691.1	0.322	186.6	3596			834.6
2017	18-May-17	22	461.6	629.7	0.316	344.7	3287.8			618.7
2017	18-May-17	23	425.2	616.1	0.227	66.825	3174.1			213.9
2017	19-May-17	0	361.1	528.3	0.042		3121.7			10.905
2017	19-May-17	1	169.3	349.3	0.058		1859.9			
2017	19-May-17	2	111.4	251	0.07		794.7			
2017	19-May-17	3	129.7	173.9	0.074		548.8			
2017	19-May-17	4	298.8	174.5	0.064		525.4			
2017	19-May-17	5	413.5	285.1	0.052		511.2			
2017	19-May-17	6	504.3	442.7	0.048		389.674			
2017	19-May-17	7	504	687.2	0.06					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	19-May-17	8	507.6	695.8	0.07					
2017	19-May-17	9	477.8	674.8	0.052					
2017	19-May-17	10	496.5	678.1	0.048					
2017	19-May-17	11	512	715.1	0.069					
2017	19-May-17	12	595	808	0.022					
2017	19-May-17	13	620.5	901.5						
2017	19-May-17	14	619.3	888.1						
2017	19-May-17	15	673.8	893.7						
2017	19-May-17	16	689.8	911.8						
2017	19-May-17	17	570.5	804.8						
2017	19-May-17	18	619.9	755.7						
2017	19-May-17	19	559.5	721.1						
2017	19-May-17	20	489.3	640.4						
2017	19-May-17	21	461.8	598.1						
2017	19-May-17	22	434.1	590.3						
2017	19-May-17	23	349	565.8						
2017	20-May-17	0	493.2	638.2						
2017	20-May-17	1	379.7	606.2						
2017	20-May-17	2	286.9	522.4						
2017	20-May-17	3	254.3	451.2						
2017	20-May-17	4	268.7	417						
2017	20-May-17	5	249	311.6						
2017	20-May-17	6	250.2	187.4						
2017	20-May-17	7	374.9	299.2						
2017	20-May-17	8	483.4	523.9						
2017	20-May-17	9	561.7	791.5						
2017	20-May-17	10	539.3	737.7						
2017	20-May-17	11	363.6	477.1						
2017	20-May-17	12	297.4	392.5						
2017	20-May-17	13	269.6	355						
2017	20-May-17	14	212.3	231.5						
2017	20-May-17	15	207.7	176.7						
2017	20-May-17	16	194.8	165.1						
2017	20-May-17	17	251.3	238.3						
2017	20-May-17	18	332.9	342.6						
2017	20-May-17	19	383	524.8						
2017	20-May-17	20	372.3	719.1						
2017	20-May-17	21	321.9	529						
2017	20-May-17	22	246.1	315.3						
2017	20-May-17	23	170	174.1						
2017	21-May-17	0	167.2	134.5						
2017	21-May-17	1	188.8	252.6						
2017	21-May-17	2	269.9	70.632						
2017	21-May-17	3	247.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	21-May-17	4	242.4							
2017	21-May-17	5	222.3							
2017	21-May-17	6	271.3							
2017	21-May-17	7	247.7							
2017	21-May-17	8	281.9							
2017	21-May-17	9	401.6							
2017	21-May-17	10	463.4							
2017	21-May-17	11	526.4							
2017	21-May-17	12	577.3							
2017	21-May-17	13	524.6							
2017	21-May-17	14	717.6							
2017	21-May-17	15	861.6							
2017	21-May-17	16	855.9							
2017	21-May-17	17	715.3							
2017	21-May-17	18	762.5							
2017	21-May-17	19	769.3							
2017	21-May-17	20	780.8							
2017	21-May-17	21	693.2							
2017	21-May-17	22	384.7							
2017	21-May-17	23	225.8							
2017	22-May-17	0	161.1							
2017	22-May-17	1	110.9							
2017	22-May-17	2	98.3							
2017	22-May-17	3	88							
2017	22-May-17	4	107.2							
2017	22-May-17	5	183.1							
2017	22-May-17	6	186.7							
2017	22-May-17	7	309.2							
2017	22-May-17	8	512.7							
2017	22-May-17	9	643.2							
2017	22-May-17	10	430.4							
2017	22-May-17	11	498.7							
2017	22-May-17	12	656.1							
2017	22-May-17	13	474.5							
2017	22-May-17	14	309.6							
2017	22-May-17	15	565.3							
2017	22-May-17	16	629.5							
2017	22-May-17	17	558.7							
2017	22-May-17	18	492.5							
2017	22-May-17	19	483.5							
2017	22-May-17	20	465.1							
2017	22-May-17	21	420.1							
2017	22-May-17	22	332.2							
2017	22-May-17	23	229.6							



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	23-May-17	0	173.9							
2017	23-May-17	1	124.3							
2017	23-May-17	2	109.9							
2017	23-May-17	3	97.9							
2017	23-May-17	4	108.5							
2017	23-May-17	5	113.6							
2017	23-May-17	6	128.2							
2017	23-May-17	7	181.1							
2017	23-May-17	8	316.5							
2017	23-May-17	9	259.9							
2017	23-May-17	10	219							
2017	23-May-17	11	363.2							
2017	23-May-17	12	449.3							
2017	23-May-17	13	418.7							
2017	23-May-17	14	159.8							
2017	23-May-17	15	165.2							
2017	23-May-17	16	154.8							
2017	23-May-17	17	148.4							
2017	23-May-17	18	196.5							
2017	23-May-17	19	300.8							
2017	23-May-17	20	324.8							
2017	23-May-17	21	316.3							
2017	23-May-17	22	200.8							
2017	23-May-17	23	129.9							
2017	24-May-17	0	114.6							
2017	24-May-17	1	115.5							
2017	24-May-17	2	111.5							
2017	24-May-17	3	112							
2017	24-May-17	4	115.5							
2017	24-May-17	5	118.7							
2017	24-May-17	6	196.2							
2017	24-May-17	7	321							
2017	24-May-17	8	454.9							
2017	24-May-17	9	656.2							
2017	24-May-17	10	679.2							
2017	24-May-17	11	478.8							
2017	24-May-17	12	652.3							
2017	24-May-17	13	545.8							
2017	24-May-17	14	512.4							
2017	24-May-17	15	299.3							
2017	24-May-17	16	296.9							
2017	24-May-17	17	255.4							
2017	24-May-17	18	183.2							
2017	24-May-17	19	173.1							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	24-May-17	20	217.9							
2017	24-May-17	21	181.2							
2017	24-May-17	22	160.9							
2017	24-May-17	23	117.1							
2017	25-May-17	0	106.6							
2017	25-May-17	1	103.6							
2017	25-May-17	2	105.3							
2017	25-May-17	3	106.4							
2017	25-May-17	4	104.8							
2017	25-May-17	5	104.8							
2017	25-May-17	6	142.8							
2017	25-May-17	7	207.4							
2017	25-May-17	8	307.7							
2017	25-May-17	9	401.7							
2017	25-May-17	10	554.3							
2017	25-May-17	11	784.3							
2017	25-May-17	12	687.4							
2017	25-May-17	13	535.8							
2017	25-May-17	14	559.3							
2017	25-May-17	15	609.3							
2017	25-May-17	16	442.9							
2017	25-May-17	17	527.7							
2017	25-May-17	18	310							
2017	25-May-17	19	224.8							
2017	25-May-17	20	225							
2017	25-May-17	21	149.8							
2017	25-May-17	22	119.6							
2017	25-May-17	23	110							
2017	26-May-17	0	107.1							
2017	26-May-17	1	100.4							
2017	26-May-17	2	103.6							
2017	26-May-17	3	102.2							
2017	26-May-17	4	106.3							
2017	26-May-17	5	106.8							
2017	26-May-17	6	128.1							
2017	26-May-17	7	190.2							
2017	26-May-17	8	209.3							
2017	26-May-17	9	235.2							
2017	26-May-17	10	230.9							
2017	26-May-17	11	186.1							
2017	26-May-17	12	253.4							
2017	26-May-17	13	244.7							
2017	26-May-17	14	260.3							
2017	26-May-17	15	285.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	26-May-17	16	250.4							
2017	26-May-17	17	243.8							
2017	26-May-17	18	195.4							
2017	26-May-17	19	147.4							
2017	26-May-17	20	158.2							
2017	26-May-17	21	115.4							
2017	26-May-17	22	123							
2017	26-May-17	23	92							
2017	27-May-17	0	98.6							
2017	27-May-17	1	93.7							
2017	27-May-17	2	96.5							
2017	27-May-17	3	91.2							
2017	27-May-17	4	94.6							
2017	27-May-17	5	89.9							
2017	27-May-17	6	98.4							
2017	27-May-17	7	98.8							
2017	27-May-17	8	96.8							
2017	27-May-17	9	96.7							
2017	27-May-17	10	124.7							
2017	27-May-17	11	149.6							
2017	27-May-17	12	114.6							
2017	27-May-17	13	108.1							
2017	27-May-17	14	104.3							
2017	27-May-17	15	99.7							
2017	27-May-17	16	110.5							
2017	27-May-17	17	98.4							
2017	27-May-17	18	100.1							
2017	27-May-17	19	99.5							
2017	27-May-17	20	103.2							
2017	27-May-17	21	97.8							
2017	27-May-17	22	99.2							
2017	27-May-17	23	99							
2017	28-May-17	0	107.3							
2017	28-May-17	1	103.4							
2017	28-May-17	2	107.9							
2017	28-May-17	3	101.7							
2017	28-May-17	4	107.3							
2017	28-May-17	5	108.7							
2017	28-May-17	6	115.7							
2017	28-May-17	7	202.3							
2017	28-May-17	8	289.3							
2017	28-May-17	9	209.2							
2017	28-May-17	10	195.2							
2017	28-May-17	11	284.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	28-May-17	12	270.6							
2017	28-May-17	13	193.7							
2017	28-May-17	14	130.8							
2017	28-May-17	15	111.3							
2017	28-May-17	16	113.3							
2017	28-May-17	17	108.1							
2017	28-May-17	18	113.9							
2017	28-May-17	19	108.9							
2017	28-May-17	20	115							
2017	28-May-17	21	155.9							
2017	28-May-17	22	158.1							
2017	28-May-17	23	108.6							
2017	29-May-17	0	110.2							
2017	29-May-17	1	108.7							
2017	29-May-17	2	111.1							
2017	29-May-17	3	108.4							
2017	29-May-17	4	108.4							
2017	29-May-17	5	104.2							
2017	29-May-17	6	118.2							
2017	29-May-17	7	113							
2017	29-May-17	8	110.6							
2017	29-May-17	9	105.6							
2017	29-May-17	10	107.5							
2017	29-May-17	11	103.2							
2017	29-May-17	12	108.6							
2017	29-May-17	13	107							
2017	29-May-17	14	112.7							
2017	29-May-17	15	120.6							
2017	29-May-17	16	205.2							
2017	29-May-17	17	210.2							
2017	29-May-17	18	221.8							
2017	29-May-17	19	216.3							
2017	29-May-17	20	221.9							
2017	29-May-17	21	173.4							
2017	29-May-17	22	138.7							
2017	29-May-17	23	104.6							
2017	30-May-17	0	134.6							
2017	30-May-17	1	106.9							
2017	30-May-17	2	105.9							
2017	30-May-17	3	102							
2017	30-May-17	4	159.5							
2017	30-May-17	5	464.4							
2017	30-May-17	6	519.3							
2017	30-May-17	7	333.2							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	30-May-17	8	240.6							
2017	30-May-17	9	254.9							
2017	30-May-17	10	197.5							
2017	30-May-17	11	168.1							
2017	30-May-17	12	194.8							
2017	30-May-17	13	192.8							
2017	30-May-17	14	303.1							
2017	30-May-17	15	352.5							
2017	30-May-17	16	370.9							
2017	30-May-17	17	360							
2017	30-May-17	18	329.8							
2017	30-May-17	19	330.1							
2017	30-May-17	20	364.3							
2017	30-May-17	21	256.7							
2017	30-May-17	22	240.8							
2017	30-May-17	23	270.6							
2017	31-May-17	0	933.4							
2017	31-May-17	1	170.274							
2017	31-May-17	2								
2017	31-May-17	3								
2017	31-May-17	4								
2017	31-May-17	5								
2017	31-May-17	6								
2017	31-May-17	7								
2017	31-May-17	8								
2017	31-May-17	9								
2017	31-May-17	10								
2017	31-May-17	11								
2017	31-May-17	12								
2017	31-May-17	13								
2017	31-May-17	14								
2017	31-May-17	15								
2017	31-May-17	16								
2017	31-May-17	17								
2017	31-May-17	18								
2017	31-May-17	19								
2017	31-May-17	20								
2017	31-May-17	21								
2017	31-May-17	22								
2017	31-May-17	23								
2017	1-Jun-17	0								
2017	1-Jun-17	1								
2017	1-Jun-17	2								
2017	1-Jun-17	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	1-Jun-17	4								
2017	1-Jun-17	5								
2017	1-Jun-17	6								
2017	1-Jun-17	7								
2017	1-Jun-17	8								
2017	1-Jun-17	9								
2017	1-Jun-17	10								
2017	1-Jun-17	11								
2017	1-Jun-17	12								
2017	1-Jun-17	13								
2017	1-Jun-17	14								
2017	1-Jun-17	15								
2017	1-Jun-17	16								
2017	1-Jun-17	17								
2017	1-Jun-17	18								
2017	1-Jun-17	19								
2017	1-Jun-17	20								
2017	1-Jun-17	21								
2017	1-Jun-17	22								
2017	1-Jun-17	23								
2017	2-Jun-17	0		0						
2017	2-Jun-17	1		0						
2017	2-Jun-17	2		0						
2017	2-Jun-17	3		0						
2017	2-Jun-17	4		0						
2017	2-Jun-17	5		0						
2017	2-Jun-17	6		0						
2017	2-Jun-17	7		4						
2017	2-Jun-17	8		3.2						
2017	2-Jun-17	9		2.4						
2017	2-Jun-17	10		2.4						
2017	2-Jun-17	11		3						
2017	2-Jun-17	12		3.4						
2017	2-Jun-17	13		3.3						
2017	2-Jun-17	14		3.4						
2017	2-Jun-17	15		24.9						
2017	2-Jun-17	16		13.3						
2017	2-Jun-17	17		13.6						
2017	2-Jun-17	18		15.4						
2017	2-Jun-17	19		19.6						
2017	2-Jun-17	20		35						
2017	2-Jun-17	21		50						
2017	2-Jun-17	22		57.5						
2017	2-Jun-17	23		95.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	3-Jun-17	0		280.7						
2017	3-Jun-17	1		504.1						
2017	3-Jun-17	2		425.3						
2017	3-Jun-17	3		291.4						
2017	3-Jun-17	4		299.7						
2017	3-Jun-17	5		274.6						
2017	3-Jun-17	6		234.5						
2017	3-Jun-17	7		237						0
2017	3-Jun-17	8		260.9						0
2017	3-Jun-17	9		253.4						0
2017	3-Jun-17	10		343.2						0
2017	3-Jun-17	11		522						0
2017	3-Jun-17	12		397.7						0
2017	3-Jun-17	13		398.9						0
2017	3-Jun-17	14		406.3						0
2017	3-Jun-17	15		452.8						0
2017	3-Jun-17	16		477.4						0
2017	3-Jun-17	17		509.4						0
2017	3-Jun-17	18		489.3						0
2017	3-Jun-17	19		378.2						0
2017	3-Jun-17	20		324.9						2.7
2017	3-Jun-17	21		239.7						36
2017	3-Jun-17	22		212.2						100.4
2017	3-Jun-17	23		132.6						180.7
2017	4-Jun-17	0		84.4						309.1
2017	4-Jun-17	1		62.3						429.3
2017	4-Jun-17	2		58.3						506.3
2017	4-Jun-17	3		57.3						541.8
2017	4-Jun-17	4		57	0.008					545.8
2017	4-Jun-17	5		58	0.041					677.6
2017	4-Jun-17	6		57.9	0.06					520.6
2017	4-Jun-17	7		63.5	0.073					499
2017	4-Jun-17	8		63.5	0.089					501.9
2017	4-Jun-17	9		72	0.089					490
2017	4-Jun-17	10		110.1	0.089		0			484.8
2017	4-Jun-17	11		142.1	0.089		0			479.1
2017	4-Jun-17	12		169	0.089		0.6			490.1
2017	4-Jun-17	13		239.8	0.089		285.2			610.9
2017	4-Jun-17	14		308.1	0.088		364.9			885.5
2017	4-Jun-17	15		403	0.069		194.3			894.6
2017	4-Jun-17	16		443	0.081		187.2			1016
2017	4-Jun-17	17		481.5	0.081		246.4			979.6
2017	4-Jun-17	18		539.2	0.08		312			972.1
2017	4-Jun-17	19		536	0.074		409			911.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	4-Jun-17	20		494.1	0.086		429.8			907.5
2017	4-Jun-17	21		415.4	0.076		828.5			906.4
2017	4-Jun-17	22		384.4	0.072		1560.2			946.4
2017	4-Jun-17	23		379.1	0.069		1673.9			887.9
2017	5-Jun-17	0		377.7	0.058		1850.7			925.3
2017	5-Jun-17	1		365.2	0.005		1842.2			892.2
2017	5-Jun-17	2		371			1949.6			892.6
2017	5-Jun-17	3		399.2			2089.1			954.4
2017	5-Jun-17	4		475.8			2700			1126.9
2017	5-Jun-17	5		549.5			3241.9			1168.2
2017	5-Jun-17	6		548			3506.7			1171
2017	5-Jun-17	7		551.4			3611.1			911.1
2017	5-Jun-17	8		469.8			3844.5			588.1
2017	5-Jun-17	9		520.4			3876.6			443.7
2017	5-Jun-17	10		531.8			3859.4			466.7
2017	5-Jun-17	11		536.4			3928.7			460.3
2017	5-Jun-17	12		531.2			3960.4			452.7
2017	5-Jun-17	13		460			3763.1			545
2017	5-Jun-17	14		372.4			3435.6			853.6
2017	5-Jun-17	15		320			2922.4			898.7
2017	5-Jun-17	16		261.4			2310.7			909.4
2017	5-Jun-17	17		250.7			2180.6			891.1
2017	5-Jun-17	18		244.6			2198.4			898.9
2017	5-Jun-17	19		230.5			2187.4			782.1
2017	5-Jun-17	20		225.8			2215			772.7
2017	5-Jun-17	21		191.2			2178.8			493.5
2017	5-Jun-17	22		124.2			2182.1			497.4
2017	5-Jun-17	23		137.2			2398.4			637.5
2017	6-Jun-17	0		171.3			2810			789.1
2017	6-Jun-17	1		98.3			2369.9			476.7
2017	6-Jun-17	2		74.2			2199.1			463.7
2017	6-Jun-17	3		66			2198.9			462.5
2017	6-Jun-17	4		65.1			2183.8			457.5
2017	6-Jun-17	5		64.9			2096.4			453.3
2017	6-Jun-17	6		80.3			2088.7			455.1
2017	6-Jun-17	7		154			2079.8			431.9
2017	6-Jun-17	8		166.4			2071.5			448.2
2017	6-Jun-17	9		138.5			2054.3			446.4
2017	6-Jun-17	10		118.9			2060.9			451.7
2017	6-Jun-17	11		210.6			2293.7			496.4
2017	6-Jun-17	12		289.9			2507.7			958.9
2017	6-Jun-17	13		436			2605.5			1146.9
2017	6-Jun-17	14		486.8	0.003		2455.2			1195
2017	6-Jun-17	15		338.6	0.019		2117.4			987.7



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	6-Jun-17	16		209.2	0.047		2085			774.8
2017	6-Jun-17	17		181.7	0.07		2071.9			483
2017	6-Jun-17	18		164.2	0.089		2099.6			476.3
2017	6-Jun-17	19		109.8	0.089		2092			470.2
2017	6-Jun-17	20		79.8	0.089		2086.2			468.2
2017	6-Jun-17	21		57.5	0.089		2093.2			463.6
2017	6-Jun-17	22		49.1	0.079		2086			432.9
2017	6-Jun-17	23		66.7	0.084		2086.2			321.765
2017	7-Jun-17	0		94.6	0.082		1960.4			
2017	7-Jun-17	1		150.7	0.083		227.346			
2017	7-Jun-17	2		156.6	0.081					
2017	7-Jun-17	3			0.084					
2017	7-Jun-17	4			0.086					
2017	7-Jun-17	5			0.081					
2017	7-Jun-17	6			0.056					
2017	7-Jun-17	7								
2017	7-Jun-17	8								
2017	7-Jun-17	9								
2017	7-Jun-17	10								
2017	7-Jun-17	11								
2017	7-Jun-17	12								
2017	7-Jun-17	13								
2017	7-Jun-17	14								
2017	7-Jun-17	15								
2017	7-Jun-17	16								
2017	7-Jun-17	17								
2017	7-Jun-17	18								
2017	7-Jun-17	19								
2017	7-Jun-17	20								
2017	7-Jun-17	21								
2017	7-Jun-17	22								
2017	7-Jun-17	23								
2017	8-Jun-17	0								
2017	8-Jun-17	1								
2017	8-Jun-17	2								
2017	8-Jun-17	3								
2017	8-Jun-17	4								
2017	8-Jun-17	5								
2017	8-Jun-17	6								
2017	8-Jun-17	7								
2017	8-Jun-17	8								
2017	8-Jun-17	9								
2017	8-Jun-17	10								
2017	8-Jun-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	8-Jun-17	12								
2017	8-Jun-17	13								
2017	8-Jun-17	14								
2017	8-Jun-17	15								
2017	8-Jun-17	16								
2017	8-Jun-17	17								
2017	8-Jun-17	18								
2017	8-Jun-17	19								
2017	8-Jun-17	20								
2017	8-Jun-17	21								
2017	8-Jun-17	22								
2017	8-Jun-17	23								
2017	9-Jun-17	0								
2017	9-Jun-17	1								
2017	9-Jun-17	2								
2017	9-Jun-17	3								
2017	9-Jun-17	4								
2017	9-Jun-17	5								
2017	9-Jun-17	6								
2017	9-Jun-17	7								
2017	9-Jun-17	8								
2017	9-Jun-17	9								
2017	9-Jun-17	10								
2017	9-Jun-17	11								
2017	9-Jun-17	12								
2017	9-Jun-17	13								
2017	9-Jun-17	14								
2017	9-Jun-17	15								
2017	9-Jun-17	16								
2017	9-Jun-17	17								
2017	9-Jun-17	18								
2017	9-Jun-17	19								
2017	9-Jun-17	20		0						
2017	9-Jun-17	21		0						
2017	9-Jun-17	22		0.8						
2017	9-Jun-17	23		0						
2017	10-Jun-17	0		1.6						
2017	10-Jun-17	1		1.6						
2017	10-Jun-17	2		0.8						
2017	10-Jun-17	3		0.8						
2017	10-Jun-17	4		0.8						
2017	10-Jun-17	5		4.2						
2017	10-Jun-17	6		23						
2017	10-Jun-17	7		16.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	10-Jun-17	8	0.78	52.1						
2017	10-Jun-17	9	0	70.1						
2017	10-Jun-17	10	0	116.6						
2017	10-Jun-17	11	0	162.4						
2017	10-Jun-17	12	0	250.9						
2017	10-Jun-17	13	0	272.3						
2017	10-Jun-17	14	0	284.7						
2017	10-Jun-17	15	0	343.8						
2017	10-Jun-17	16	0	446.4						
2017	10-Jun-17	17	0	233						
2017	10-Jun-17	18	0	183.6						
2017	10-Jun-17	19	0	114						
2017	10-Jun-17	20	0	83.1						
2017	10-Jun-17	21	0	49.4						
2017	10-Jun-17	22	0	47.7						
2017	10-Jun-17	23	0	51.3						
2017	11-Jun-17	0	0	52.6						
2017	11-Jun-17	1	0	50.8						
2017	11-Jun-17	2	0	50.4						
2017	11-Jun-17	3	37.7	47.7						
2017	11-Jun-17	4	51.4	48.9						
2017	11-Jun-17	5	38.7	48.9						
2017	11-Jun-17	6	53.3	48.9	0.065					
2017	11-Jun-17	7	90.4	51.6	0.07					
2017	11-Jun-17	8	197.4	47.7	0.076					
2017	11-Jun-17	9	315.8	59.3	0.099		0			
2017	11-Jun-17	10	226.5	70.8	0.097		0			
2017	11-Jun-17	11	150.1	110.3	0.089		0			
2017	11-Jun-17	12	186.1	164.6	0.085		0			
2017	11-Jun-17	13	228.6	254.3	0.074		0			0
2017	11-Jun-17	14	262	314.6	0.087		0			0
2017	11-Jun-17	15	379.9	374.7	0.07		0			0.2
2017	11-Jun-17	16	456.9	460.4	0.088		0			0
2017	11-Jun-17	17	528.6	522	0.08		147.7			0
2017	11-Jun-17	18	528.5	519.2	0.07		214.7			0
2017	11-Jun-17	19	369.3	485.4	0.085		184.5			0
2017	11-Jun-17	20	307.1	414.9	0.072		260.7			0
2017	11-Jun-17	21	180	233.7	0.069		213.8			0
2017	11-Jun-17	22	108.4	138.6	0.079		184.1			0
2017	11-Jun-17	23	75.8	80.9	0.088		297.6			0
2017	12-Jun-17	0	71.2	53.9	0.077		708.1			0
2017	12-Jun-17	1	72.9	60.6	0.046		1258.4			0
2017	12-Jun-17	2	73.5	63.4	0.033		1863.4			28.9
2017	12-Jun-17	3	73.5	63.3			2067			190.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	12-Jun-17	4	70.7	63.2			2698.5			339.7
2017	12-Jun-17	5	72.7	61.7			3233.4			447.1
2017	12-Jun-17	6	77.6	58			3059.5			486.4
2017	12-Jun-17	7	81.7	66.1			3213.6			463.7
2017	12-Jun-17	8	107.1	117.1			3308.3			444.5
2017	12-Jun-17	9	138	196.8			3377.7			438.9
2017	12-Jun-17	10	215.4	274.6			3371.6			460.1
2017	12-Jun-17	11	291.8	352.1			3337.2			545.9
2017	12-Jun-17	12	470	524			3366.3			648.6
2017	12-Jun-17	13	529.8	630.9			3376.6			661.7
2017	12-Jun-17	14	596	689.9			3352.9			849.7
2017	12-Jun-17	15	621.2	694.3			3321.3			986.5
2017	12-Jun-17	16	641.2	681.9			3328.6			1110.1
2017	12-Jun-17	17	649.1	696.4			3358			1018.2
2017	12-Jun-17	18	668.1	698.5			3336.5			968.7
2017	12-Jun-17	19	671	694.5			3349.3			955.4
2017	12-Jun-17	20	634.2	698.3			3357.3			1099.6
2017	12-Jun-17	21	550.5	588.2	0.002		3331.3			840
2017	12-Jun-17	22	350.9	407.5	0.047		3061.8			602.6
2017	12-Jun-17	23	165.4	200.3	0.048		2027			439
2017	13-Jun-17	0	99.2	146.9	0.048		1925.5			449
2017	13-Jun-17	1	76.6	74.5	0.057		1936.9			452.8
2017	13-Jun-17	2	75.7	65.8	0.07		1980.9			449.3
2017	13-Jun-17	3	75.2	70.1	0.055		2816.7			447.2
2017	13-Jun-17	4	72.4	70	0.084		3285.2			446.7
2017	13-Jun-17	5	81.6	75.3	0.172		3092.1			444.4
2017	13-Jun-17	6	154.7	86.7	0.249		3100.6			448.6
2017	13-Jun-17	7	264.6	197.1	0.341		3066.3			449.5
2017	13-Jun-17	8	382.8	391.1	0.332		3065.2			450.2
2017	13-Jun-17	9	523.7	601.7	0.329		2972.1			449.6
2017	13-Jun-17	10	513.8	678.7	0.341		3013.7			516.2
2017	13-Jun-17	11	534	695.3	0.335		2911.5			659.1
2017	13-Jun-17	12	570	703.6	0.331		2887.7			787.6
2017	13-Jun-17	13	564.2	738.5	0.329		2877.7			574.8
2017	13-Jun-17	14	549.9	689.5	0.328		2710.5			510.5
2017	13-Jun-17	15	478.2	619.1	0.329		2717.1			915.3
2017	13-Jun-17	16	493.6	613	0.482		2703.5			1120.3
2017	13-Jun-17	17	479	566.4	0.534		2447.1			1110.6
2017	13-Jun-17	18	550.3	619.7	0.33		2326.8			1125.6
2017	13-Jun-17	19	510.9	603	0.325		2315.2			1068
2017	13-Jun-17	20	380.6	425.2	0.084		3020			982.4
2017	13-Jun-17	21	218	299.5			3177.7			975.1
2017	13-Jun-17	22	219.6	238.3			2809.3			531.3
2017	13-Jun-17	23	138.9	140.1			2266.1			440.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	14-Jun-17	0	104.1	91			1908.5			84.007
2017	14-Jun-17	1	83.8	70.2			1910.3			
2017	14-Jun-17	2	90.3	84.8			1925			
2017	14-Jun-17	3	87.9	85.4			2253.5			
2017	14-Jun-17	4	109.8	82.2			2797.5			
2017	14-Jun-17	5	212.6	83.9			3204.8			
2017	14-Jun-17	6	546.4	94.9			3442			
2017	14-Jun-17	7	562.8	138.8			3333.8			
2017	14-Jun-17	8	574.4	194.1			3372.6			
2017	14-Jun-17	9	594.2	364.7			3413.6			
2017	14-Jun-17	10	581.6	554.2			3462.5			
2017	14-Jun-17	11	597.9	693.6			3416.5			
2017	14-Jun-17	12	613.1	725.3			3440.7			
2017	14-Jun-17	13	608	711.2			3447.1			
2017	14-Jun-17	14	626.5	698.2			3415.6			
2017	14-Jun-17	15	658.5	649.7			3332.6			
2017	14-Jun-17	16	665.2	661			3405.6			
2017	14-Jun-17	17	670.7	723.1			3480.5			
2017	14-Jun-17	18	665.2	738		0	3190.6			
2017	14-Jun-17	19	661.1	649.2		0	2659.4			
2017	14-Jun-17	20	653.8	569.6		0	2257			
2017	14-Jun-17	21	564	414.2		0	2189			
2017	14-Jun-17	22	313.2	237.5		0	2179.6			
2017	14-Jun-17	23	164.6	126.7		0	1436.8			
2017	15-Jun-17	0	124.1	108.3		0	168.762			
2017	15-Jun-17	1	87.9	74.2		0				
2017	15-Jun-17	2	85.2	72.3		0				
2017	15-Jun-17	3	77.4	71.2		0				
2017	15-Jun-17	4	77.9	72.6		0				
2017	15-Jun-17	5	107.4	72.5		0				
2017	15-Jun-17	6	577.4	72.7		0				
2017	15-Jun-17	7	567.3	76.8		0				
2017	15-Jun-17	8	566.2	74.3		0				
2017	15-Jun-17	9	570.6	101.8		0				
2017	15-Jun-17	10	579.9	160.7		0				
2017	15-Jun-17	11	579.3	365.6		0				
2017	15-Jun-17	12	578.7	611.2		0				
2017	15-Jun-17	13	605.4	678						
2017	15-Jun-17	14	608.5	699.5						
2017	15-Jun-17	15	613.4	696.2						
2017	15-Jun-17	16	595.2	708.6						
2017	15-Jun-17	17	598.1	703.8						
2017	15-Jun-17	18	592.9	672.7						
2017	15-Jun-17	19	591.5	702.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	15-Jun-17	20	483.8	606.1						
2017	15-Jun-17	21	358.9	412.7						
2017	15-Jun-17	22	300.1	279.3						
2017	15-Jun-17	23	222.9	158.1						
2017	16-Jun-17	0	164.4	110						
2017	16-Jun-17	1	135.8	81.7						
2017	16-Jun-17	2	92.4	77.9						
2017	16-Jun-17	3	80	75.6						
2017	16-Jun-17	4	85.9	79.2						
2017	16-Jun-17	5	84.4	77.5						
2017	16-Jun-17	6	93.7	72.3						
2017	16-Jun-17	7	87.4	80.1						
2017	16-Jun-17	8	129	96.2						
2017	16-Jun-17	9	168	135						
2017	16-Jun-17	10	227.7	192.8						
2017	16-Jun-17	11	282.7	294.1						
2017	16-Jun-17	12	527	573.1						
2017	16-Jun-17	13	573.7	726.9						
2017	16-Jun-17	14	580	735.9						
2017	16-Jun-17	15	632.6	736.8						
2017	16-Jun-17	16	621.9	721.3						
2017	16-Jun-17	17	640.9	747.7						
2017	16-Jun-17	18	638.8	737						
2017	16-Jun-17	19	568.5	695.1						
2017	16-Jun-17	20	440.4	576.5						
2017	16-Jun-17	21	235.5	404.2						
2017	16-Jun-17	22	195.6	229.4						
2017	16-Jun-17	23	144.2	104						
2017	17-Jun-17	0	130.2	73.4						
2017	17-Jun-17	1	104.8	72.5						
2017	17-Jun-17	2	95.4	80.9						
2017	17-Jun-17	3	90.7	83.3						
2017	17-Jun-17	4	84.5	83.5						
2017	17-Jun-17	5	85.6	75.7						
2017	17-Jun-17	6	94.5	73.9						
2017	17-Jun-17	7	88.1	81.3						
2017	17-Jun-17	8	106.2	77.1						
2017	17-Jun-17	9	181.9	120.3						
2017	17-Jun-17	10	253.5	180.5						
2017	17-Jun-17	11	417	261						
2017	17-Jun-17	12	602.4	425.6						
2017	17-Jun-17	13	514.3	538.1						
2017	17-Jun-17	14	487.9	536						
2017	17-Jun-17	15	615.7	683.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	17-Jun-17	16	653.7	737.2						
2017	17-Jun-17	17	651	732.7						
2017	17-Jun-17	18	554.9	674.3						
2017	17-Jun-17	19	524.8	548.5						
2017	17-Jun-17	20	556.9	603						
2017	17-Jun-17	21	401.1	387.2						
2017	17-Jun-17	22	353.2	333.9						
2017	17-Jun-17	23	190.8	125.8						
2017	18-Jun-17	0	120.5	79						
2017	18-Jun-17	1	103.3	91.1						
2017	18-Jun-17	2	93.4	87.3						
2017	18-Jun-17	3	98.1	87.4						
2017	18-Jun-17	4	96	82.4						
2017	18-Jun-17	5	101.7	82.5						
2017	18-Jun-17	6	109.6	77						
2017	18-Jun-17	7	108.6	85.1						
2017	18-Jun-17	8	115.7	102.5						
2017	18-Jun-17	9	181.7	150.5						
2017	18-Jun-17	10	304.3	239.4						
2017	18-Jun-17	11	528.5	393.6						
2017	18-Jun-17	12	504.8	454.3						
2017	18-Jun-17	13	706.9	761.7						
2017	18-Jun-17	14	689.7	826.2						
2017	18-Jun-17	15	710.4	822.4						
2017	18-Jun-17	16	715.1	827.3						
2017	18-Jun-17	17	726.8	828.8						
2017	18-Jun-17	18	700.1	819.6						
2017	18-Jun-17	19	700.3	823						
2017	18-Jun-17	20	691.5	801.1						
2017	18-Jun-17	21	717.1	717.1						
2017	18-Jun-17	22	444.2	502.2						
2017	18-Jun-17	23	233.2	232.5						
2017	19-Jun-17	0	143	130.9						
2017	19-Jun-17	1	108	77.1						
2017	19-Jun-17	2	103.3	87.1						
2017	19-Jun-17	3	106.5	86.2						
2017	19-Jun-17	4	116.9	85.4						
2017	19-Jun-17	5	135.8	93.4						
2017	19-Jun-17	6	201.6	126.6						
2017	19-Jun-17	7	251.4	199						
2017	19-Jun-17	8	434.3	253.6						
2017	19-Jun-17	9	571.4	346.9						
2017	19-Jun-17	10	700.4	435.3						
2017	19-Jun-17	11	741.2	508.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	19-Jun-17	12	756.8	716.9						
2017	19-Jun-17	13	786	820.1						
2017	19-Jun-17	14	777.5	839.7						
2017	19-Jun-17	15	569.7	658.1						
2017	19-Jun-17	16	335.8	554.1						
2017	19-Jun-17	17	256.7	337.6						
2017	19-Jun-17	18	194.7	219.5						
2017	19-Jun-17	19	184.4	149.4						
2017	19-Jun-17	20	191.1	122.9						
2017	19-Jun-17	21	139	80						
2017	19-Jun-17	22	113.1	80.2						
2017	19-Jun-17	23	111.6	84.7						
2017	20-Jun-17	0	105.6	82.9						
2017	20-Jun-17	1	96	76.9						
2017	20-Jun-17	2	116.5	84.9						
2017	20-Jun-17	3	103.4	78						
2017	20-Jun-17	4	103.2	86.2						
2017	20-Jun-17	5	89.9	227.2						
2017	20-Jun-17	6	91.9	511.2		0				
2017	20-Jun-17	7	82.6	848.2		0				
2017	20-Jun-17	8	85.2	886		0				
2017	20-Jun-17	9	84.8	876.7		0				
2017	20-Jun-17	10	95.1	847.9		0				
2017	20-Jun-17	11	106	875.6		0				
2017	20-Jun-17	12	153.1	704.6		0				
2017	20-Jun-17	13	137.2	503.3		0				
2017	20-Jun-17	14	137.5	528		0				
2017	20-Jun-17	15	180.5	534.4		0	0			
2017	20-Jun-17	16	247.5	469.3		0	0			
2017	20-Jun-17	17	342.1	308		0	0			
2017	20-Jun-17	18	302.1	305.4		0	0			
2017	20-Jun-17	19	264	311.8		0	0			
2017	20-Jun-17	20	206.1	254.4		0	0			
2017	20-Jun-17	21	142.4	215.8		0	0			
2017	20-Jun-17	22	97.2	158.9		0	24.6			
2017	20-Jun-17	23	94.9	119.1		0	192.3			
2017	21-Jun-17	0	95.1	73.8		0	207.6			
2017	21-Jun-17	1	90.3	63.2		0	219.3			
2017	21-Jun-17	2	88	72.2		0	224.1			
2017	21-Jun-17	3	88.6	74.7		0	227.3			
2017	21-Jun-17	4	83.8	94.5		0	368			
2017	21-Jun-17	5	85.3	220.2		0	960.6			
2017	21-Jun-17	6	85.8	500.6		0	1651.7			
2017	21-Jun-17	7	76.1	624.5		0	2100.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	21-Jun-17	8	83	626.6		0	2327.1			
2017	21-Jun-17	9	125.8	636.3		0	2662			
2017	21-Jun-17	10	158.3	600.4		0	2563.1			
2017	21-Jun-17	11	186.5	627.6			2334.4			
2017	21-Jun-17	12	219.7	580.7			2137.4			
2017	21-Jun-17	13	316.1	572.2			2012.3			
2017	21-Jun-17	14	425	573.7			2113.2			
2017	21-Jun-17	15	631.8	573.5			2098.3			
2017	21-Jun-17	16	675.1	647.8			2003.4			
2017	21-Jun-17	17	680	603.3			2034.9			
2017	21-Jun-17	18	521.4	341.7			1994.9			
2017	21-Jun-17	19	324.4	229.1			2009.9			
2017	21-Jun-17	20	261.4	180.8			2016.2			
2017	21-Jun-17	21	178.6	111.3			2017.3			
2017	21-Jun-17	22	135.1	60.3			2017.9			
2017	21-Jun-17	23	128.1	57.7			2045.9			
2017	22-Jun-17	0	117.7	59.2			2045.8			
2017	22-Jun-17	1	120.2	59.6			2056.6			
2017	22-Jun-17	2	119.3	58.6			2056.2			
2017	22-Jun-17	3	119.9	60.1			2044.2			
2017	22-Jun-17	4	105.7	60.2			2050.3			
2017	22-Jun-17	5	103.8	59.2			2058.9			
2017	22-Jun-17	6	104	64.3			2064.1			
2017	22-Jun-17	7	142.4	73.9			2089.2			
2017	22-Jun-17	8	116.9	97.3			2041.8			
2017	22-Jun-17	9	178.4	102.4			2043.8			
2017	22-Jun-17	10	134.6	122.9			2078.5			
2017	22-Jun-17	11	193.5	181.4			2108.9			
2017	22-Jun-17	12	273.9	256.7			2067.3			
2017	22-Jun-17	13	264.7	261.9			2093			
2017	22-Jun-17	14	366.8	327			2281			
2017	22-Jun-17	15	487	455			2754.3			
2017	22-Jun-17	16	546.4	535.6		0	3017.3			
2017	22-Jun-17	17	503.3	571.1		0	2932.9			
2017	22-Jun-17	18	383.8	481.1		0	2581.4			
2017	22-Jun-17	19	450.9	481		0	2254.3			
2017	22-Jun-17	20	639.7	576.7		0	2161			
2017	22-Jun-17	21	571.4	527.5		0	2106.5			
2017	22-Jun-17	22	310.7	424		0	2122.7			
2017	22-Jun-17	23	197.2	291.7		0	1305.532			
2017	23-Jun-17	0	121.8	168		0				
2017	23-Jun-17	1	94.9	110.7		0				
2017	23-Jun-17	2	92.5	83.4		0				
2017	23-Jun-17	3	96.9	83		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	23-Jun-17	4	95.9	80.7		0				
2017	23-Jun-17	5	99.7	82.2		0				
2017	23-Jun-17	6	89.9	77.6		0				
2017	23-Jun-17	7	82.4	82.2		0				
2017	23-Jun-17	8	138.6	95.2		0				
2017	23-Jun-17	9	232.1	119.7		0				
2017	23-Jun-17	10	465.1	180.5		0				
2017	23-Jun-17	11	397.4	205.5		0				
2017	23-Jun-17	12	474.1	303		0				
2017	23-Jun-17	13	393.3	268		0				
2017	23-Jun-17	14	455.3	306.8						
2017	23-Jun-17	15	575.1	532.8						
2017	23-Jun-17	16	547.5	594.2						
2017	23-Jun-17	17	581	511.6						
2017	23-Jun-17	18	437	467.3						
2017	23-Jun-17	19	325.2	438.2						
2017	23-Jun-17	20	258.1	373						
2017	23-Jun-17	21	196.8	284						
2017	23-Jun-17	22	146.8	239.3						
2017	23-Jun-17	23	109.4	142.3						
2017	24-Jun-17	0	95.4	95.7						
2017	24-Jun-17	1	92.2	62.9						
2017	24-Jun-17	2	89.1	65.3						
2017	24-Jun-17	3	87.6	66.2						
2017	24-Jun-17	4	85.6	64.6						
2017	24-Jun-17	5	87.4	63.2						
2017	24-Jun-17	6	85.1	62.6						
2017	24-Jun-17	7	81.5	67.3						
2017	24-Jun-17	8	86.4	62.4						
2017	24-Jun-17	9	188.5	135.7						
2017	24-Jun-17	10	251.5	173						
2017	24-Jun-17	11	206.9	151.2						
2017	24-Jun-17	12	173	122.2						
2017	24-Jun-17	13	174.1	128.3						
2017	24-Jun-17	14	170.3	117						
2017	24-Jun-17	15	194.2	137.1						
2017	24-Jun-17	16	238.2	192.2						
2017	24-Jun-17	17	330.1	308.7						
2017	24-Jun-17	18	270.3	248.2						
2017	24-Jun-17	19	209.7	187						
2017	24-Jun-17	20	147.5	139.3						
2017	24-Jun-17	21	123.2	88						
2017	24-Jun-17	22	94.9	61.7						
2017	24-Jun-17	23	77.4	53.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	25-Jun-17	0	66.8	51.2						
2017	25-Jun-17	1		55.4						
2017	25-Jun-17	2		55.5						
2017	25-Jun-17	3		55.2						
2017	25-Jun-17	4		54.2						
2017	25-Jun-17	5		53.9						
2017	25-Jun-17	6		54						
2017	25-Jun-17	7		55.5						
2017	25-Jun-17	8		55.6						
2017	25-Jun-17	9		54.5						
2017	25-Jun-17	10		55.1						
2017	25-Jun-17	11		57.5						
2017	25-Jun-17	12		57.1						
2017	25-Jun-17	13		57.4						
2017	25-Jun-17	14		54.9						
2017	25-Jun-17	15		59.6						
2017	25-Jun-17	16		88.9						
2017	25-Jun-17	17		119.9						
2017	25-Jun-17	18		116						
2017	25-Jun-17	19		95.3						
2017	25-Jun-17	20		69.6						
2017	25-Jun-17	21		52.8						
2017	25-Jun-17	22		50.4						
2017	25-Jun-17	23		50.3						
2017	26-Jun-17	0		50.8						
2017	26-Jun-17	1		51.3						
2017	26-Jun-17	2		51.3						
2017	26-Jun-17	3		52.3						
2017	26-Jun-17	4		69.1						
2017	26-Jun-17	5		124.6						
2017	26-Jun-17	6		211.7						
2017	26-Jun-17	7		450.8						
2017	26-Jun-17	8		555						
2017	26-Jun-17	9		380						
2017	26-Jun-17	10		194.7						
2017	26-Jun-17	11		105.6						
2017	26-Jun-17	12		124.8						
2017	26-Jun-17	13		100.1						
2017	26-Jun-17	14		61.1						
2017	26-Jun-17	15		113.8						
2017	26-Jun-17	16		110						
2017	26-Jun-17	17		122.9						
2017	26-Jun-17	18		104.6						
2017	26-Jun-17	19		92.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	26-Jun-17	20		73.8						
2017	26-Jun-17	21		65.9						
2017	26-Jun-17	22		62.6						
2017	26-Jun-17	23		61.2						
2017	27-Jun-17	0		59.7						0
2017	27-Jun-17	1		58.4						0
2017	27-Jun-17	2		58.1						0
2017	27-Jun-17	3		82.3						0
2017	27-Jun-17	4		238.4						0
2017	27-Jun-17	5		493.2						0
2017	27-Jun-17	6		600.1						0
2017	27-Jun-17	7		595.3						0.1
2017	27-Jun-17	8		597.4						0
2017	27-Jun-17	9		537.2						0
2017	27-Jun-17	10		541.4						0
2017	27-Jun-17	11		568.3						1.7
2017	27-Jun-17	12		472.4						1.7
2017	27-Jun-17	13		524.4						2.9
2017	27-Jun-17	14		536.5						0.1
2017	27-Jun-17	15		552.6						0.7
2017	27-Jun-17	16		493.6						51.1
2017	27-Jun-17	17		421.4						193.6
2017	27-Jun-17	18		374.5						319.2
2017	27-Jun-17	19		302.6						407.5
2017	27-Jun-17	20		215						478.4
2017	27-Jun-17	21		89.8						545.9
2017	27-Jun-17	22		74.3						737.9
2017	27-Jun-17	23		73.4						756.9
2017	28-Jun-17	0		72.7						717
2017	28-Jun-17	1		74.7						626.7
2017	28-Jun-17	2		72.7						612.5
2017	28-Jun-17	3		73.3						880.3
2017	28-Jun-17	4		72.3						1152.3
2017	28-Jun-17	5		82.8						1140.8
2017	28-Jun-17	6		157.7						826.2
2017	28-Jun-17	7		207.3						1416.6
2017	28-Jun-17	8		301.5						1845.7
2017	28-Jun-17	9		320.4						1876.3
2017	28-Jun-17	10		276.5						1865.3
2017	28-Jun-17	11		203.9						1862
2017	28-Jun-17	12		154.3						1874.9
2017	28-Jun-17	13		306.9						1862.4
2017	28-Jun-17	14		493						1850.1
2017	28-Jun-17	15		526.8						1829.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	28-Jun-17	16		517.9						1836.8
2017	28-Jun-17	17		528.7						1823
2017	28-Jun-17	18		470.3						1806
2017	28-Jun-17	19		327.1						1918.2
2017	28-Jun-17	20		198.3						1961.2
2017	28-Jun-17	21		109.9						1957.2
2017	28-Jun-17	22		71.1						1376.5
2017	28-Jun-17	23		71.2						355.436
2017	29-Jun-17	0		67.9						
2017	29-Jun-17	1		75.3						
2017	29-Jun-17	2		73.4						
2017	29-Jun-17	3		73.7						
2017	29-Jun-17	4		71.7						
2017	29-Jun-17	5		214.1						
2017	29-Jun-17	6		543.4						
2017	29-Jun-17	7		538						
2017	29-Jun-17	8		445.7						
2017	29-Jun-17	9		298.6						
2017	29-Jun-17	10		171.1						
2017	29-Jun-17	11		226.2						
2017	29-Jun-17	12		357.3						
2017	29-Jun-17	13		450.5						
2017	29-Jun-17	14		577.8						
2017	29-Jun-17	15		591.4						
2017	29-Jun-17	16		672.3						
2017	29-Jun-17	17		682						
2017	29-Jun-17	18		685.2						
2017	29-Jun-17	19		645						
2017	29-Jun-17	20		575.4						
2017	29-Jun-17	21		478						
2017	29-Jun-17	22		312.7						
2017	29-Jun-17	23		165.8						
2017	30-Jun-17	0		114.2						
2017	30-Jun-17	1		156						
2017	30-Jun-17	2		204.1						
2017	30-Jun-17	3		213.3						
2017	30-Jun-17	4		202.5						
2017	30-Jun-17	5		197.2						
2017	30-Jun-17	6		189.2						
2017	30-Jun-17	7		208.2						
2017	30-Jun-17	8		275						
2017	30-Jun-17	9		331						
2017	30-Jun-17	10		339.6						
2017	30-Jun-17	11		392.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	30-Jun-17	12		546.8						
2017	30-Jun-17	13		969.2						
2017	30-Jun-17	14		1261.9						
2017	30-Jun-17	15		1558.2						
2017	30-Jun-17	16		1611.6						
2017	30-Jun-17	17		1164.1						
2017	30-Jun-17	18		668						
2017	30-Jun-17	19		620.7						
2017	30-Jun-17	20		575.9						
2017	30-Jun-17	21		477.8						
2017	30-Jun-17	22		361.7						
2017	30-Jun-17	23		222.5						
2017	1-Jul-17	0		144.4						
2017	1-Jul-17	1		88.3						
2017	1-Jul-17	2		76						
2017	1-Jul-17	3		84.1						
2017	1-Jul-17	4		76.8						
2017	1-Jul-17	5		76.6						
2017	1-Jul-17	6		68.2						
2017	1-Jul-17	7		90.9						
2017	1-Jul-17	8		85.7						
2017	1-Jul-17	9		142.9						
2017	1-Jul-17	10		231.2						
2017	1-Jul-17	11		432.5						
2017	1-Jul-17	12		668.6						
2017	1-Jul-17	13		728.5						
2017	1-Jul-17	14		707.6						
2017	1-Jul-17	15		800.7						
2017	1-Jul-17	16		783.5						
2017	1-Jul-17	17		778.7						
2017	1-Jul-17	18		818.3						
2017	1-Jul-17	19		776.6						
2017	1-Jul-17	20		725.7						
2017	1-Jul-17	21		699.7						
2017	1-Jul-17	22		582.7						
2017	1-Jul-17	23		454.5						
2017	2-Jul-17	0		336.8						
2017	2-Jul-17	1		229.6						
2017	2-Jul-17	2		156.9						
2017	2-Jul-17	3		157						
2017	2-Jul-17	4		130						
2017	2-Jul-17	5		110.7						
2017	2-Jul-17	6		102.3						
2017	2-Jul-17	7		129.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	2-Jul-17	8		115.3						
2017	2-Jul-17	9		125.8						
2017	2-Jul-17	10		169.3						
2017	2-Jul-17	11		341.7						
2017	2-Jul-17	12		682.6						
2017	2-Jul-17	13		748						
2017	2-Jul-17	14		766						
2017	2-Jul-17	15		792.5						
2017	2-Jul-17	16		793.9						
2017	2-Jul-17	17		782.2						
2017	2-Jul-17	18		834.7						
2017	2-Jul-17	19		817.7						
2017	2-Jul-17	20		874.5						
2017	2-Jul-17	21		720.6						
2017	2-Jul-17	22		511.4						
2017	2-Jul-17	23		359						
2017	3-Jul-17	0		181.1						
2017	3-Jul-17	1		94.6						
2017	3-Jul-17	2		84.4						
2017	3-Jul-17	3		81.2						
2017	3-Jul-17	4		85.6						
2017	3-Jul-17	5		118.7						
2017	3-Jul-17	6		110.5						
2017	3-Jul-17	7		141.7						
2017	3-Jul-17	8		158.1						
2017	3-Jul-17	9		218.3						
2017	3-Jul-17	10		352						
2017	3-Jul-17	11		541.7						
2017	3-Jul-17	12		710.4						
2017	3-Jul-17	13		731.9						
2017	3-Jul-17	14		774.4						
2017	3-Jul-17	15		814.7						
2017	3-Jul-17	16		806.5						
2017	3-Jul-17	17		812.3						
2017	3-Jul-17	18		795.9						
2017	3-Jul-17	19		800.8						
2017	3-Jul-17	20		728.2						
2017	3-Jul-17	21		589.8						
2017	3-Jul-17	22		481.5						
2017	3-Jul-17	23		330.9						
2017	4-Jul-17	0		228.1						
2017	4-Jul-17	1		149.2						
2017	4-Jul-17	2		130.8						
2017	4-Jul-17	3		104.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	4-Jul-17	4		89.5						
2017	4-Jul-17	5	0	88.7						
2017	4-Jul-17	6	0	112.4						
2017	4-Jul-17	7	0	118						
2017	4-Jul-17	8	0	116.7						
2017	4-Jul-17	9	0	218.4						
2017	4-Jul-17	10	0	252.9						
2017	4-Jul-17	11	0	604.3						
2017	4-Jul-17	12	0	791.9						
2017	4-Jul-17	13	3.2	787						
2017	4-Jul-17	14	3.3	808.6						
2017	4-Jul-17	15	3.6	782						
2017	4-Jul-17	16	3.6	878.4						
2017	4-Jul-17	17	2.4	581						
2017	4-Jul-17	18	2.4	333.7						
2017	4-Jul-17	19	2.4	283.8						
2017	4-Jul-17	20	2.4	220.5						
2017	4-Jul-17	21	2.4	126.1						
2017	4-Jul-17	22	2.4	103.4						
2017	4-Jul-17	23	2.4	104.9						
2017	5-Jul-17	0	2.4	101.4						
2017	5-Jul-17	1	7.7	105						
2017	5-Jul-17	2	15.9	101.8						
2017	5-Jul-17	3	52.2	98.5						
2017	5-Jul-17	4	58.8	96						
2017	5-Jul-17	5	82.2	97.8						
2017	5-Jul-17	6	113.3	90.4						
2017	5-Jul-17	7	127.8	86.5						
2017	5-Jul-17	8	118.7	80.5						
2017	5-Jul-17	9	87.2	145.5						
2017	5-Jul-17	10	84.3	302.3						
2017	5-Jul-17	11	165.7	422.5						
2017	5-Jul-17	12	457	800.6						
2017	5-Jul-17	13	579	881.2						
2017	5-Jul-17	14	576.7	785.4						
2017	5-Jul-17	15	844.8	816.9						
2017	5-Jul-17	16	767.4	841.2						
2017	5-Jul-17	17	562.5	783.7						
2017	5-Jul-17	18	307.4	605.4						
2017	5-Jul-17	19	273.1	532.5						
2017	5-Jul-17	20	225.1	424.7						
2017	5-Jul-17	21	167	352						
2017	5-Jul-17	22	109.9	257						
2017	5-Jul-17	23	78.2	200.6						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	6-Jul-17	0	77.6	157.7						
2017	6-Jul-17	1	74.2	103.1						
2017	6-Jul-17	2	72.5	80.8						
2017	6-Jul-17	3	75.3	82.1						
2017	6-Jul-17	4	73.3	90.9						
2017	6-Jul-17	5	68.5	98.8						
2017	6-Jul-17	6	72.4	102.7						
2017	6-Jul-17	7	62.7	109.2						
2017	6-Jul-17	8	63	98.1						
2017	6-Jul-17	9	124.8	127						
2017	6-Jul-17	10	194.8	184.4						
2017	6-Jul-17	11	185.3	194.4						
2017	6-Jul-17	12	229	306.1						
2017	6-Jul-17	13	336.4	365						
2017	6-Jul-17	14	428.5	389.3						
2017	6-Jul-17	15	435.5	499.3						
2017	6-Jul-17	16	572.9	826.1						
2017	6-Jul-17	17	526.7	637.7						
2017	6-Jul-17	18	372	465.3						
2017	6-Jul-17	19	348.4	439						
2017	6-Jul-17	20	308.8	375.6						
2017	6-Jul-17	21	334.9	387.4						
2017	6-Jul-17	22	280.1	299						
2017	6-Jul-17	23	207.7	177.4						
2017	7-Jul-17	0	149.3	144.3						
2017	7-Jul-17	1	127.8	96.2						
2017	7-Jul-17	2	90	83.2						
2017	7-Jul-17	3	88.5	80.5						
2017	7-Jul-17	4	85.9	81.6						
2017	7-Jul-17	5	82.3	78.2						
2017	7-Jul-17	6	94.1	73.3						
2017	7-Jul-17	7	77.6	75.5						
2017	7-Jul-17	8	77.3	77.2						
2017	7-Jul-17	9	132.3	94.1						
2017	7-Jul-17	10	167.4	179.7						
2017	7-Jul-17	11	239	297.7						
2017	7-Jul-17	12	310	316.7						
2017	7-Jul-17	13	362.5	359.6						
2017	7-Jul-17	14	368.7	401.4						
2017	7-Jul-17	15	457.2	738						
2017	7-Jul-17	16	587.6	818.9						
2017	7-Jul-17	17	518.8	793						
2017	7-Jul-17	18	519.2	619.6						
2017	7-Jul-17	19	445.1	498.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Jul-17	20	303.2	393.2						
2017	7-Jul-17	21	259.1	246.6						
2017	7-Jul-17	22	137.8	156						
2017	7-Jul-17	23	116.5	105.8						
2017	8-Jul-17	0	116.7	104.8						
2017	8-Jul-17	1	111.4	105.2						
2017	8-Jul-17	2	108.7	105.8						
2017	8-Jul-17	3	111.9	103.5						
2017	8-Jul-17	4	106.1	102.5						
2017	8-Jul-17	5	160.6	125.3						
2017	8-Jul-17	6	468.3	274						
2017	8-Jul-17	7	600.9	688.4						
2017	8-Jul-17	8	592.2	758.9						
2017	8-Jul-17	9	613.3	748						
2017	8-Jul-17	10	472.7	582						
2017	8-Jul-17	11	345.6	436.3						
2017	8-Jul-17	12	361.8	407.1						
2017	8-Jul-17	13	372.9	387.5						
2017	8-Jul-17	14	313.2	347.7						
2017	8-Jul-17	15	448.7	434.1						
2017	8-Jul-17	16	459.1	510.6						
2017	8-Jul-17	17	637.9	602.9						
2017	8-Jul-17	18	633.2	665.4						
2017	8-Jul-17	19	519.9	521.8						
2017	8-Jul-17	20	352.9	330.1						
2017	8-Jul-17	21	238.6	195.8						
2017	8-Jul-17	22	156.3	132.3						
2017	8-Jul-17	23	114.2	94.9						
2017	9-Jul-17	0	108	103.6						
2017	9-Jul-17	1	109.8	101.6						
2017	9-Jul-17	2	107.3	96.4						
2017	9-Jul-17	3	106.8	93.4						
2017	9-Jul-17	4	98.6	88.3						
2017	9-Jul-17	5	101.3	118.2						
2017	9-Jul-17	6	108.4	292.1						
2017	9-Jul-17	7	90.3	600.8						
2017	9-Jul-17	8	133.8	686						
2017	9-Jul-17	9	398	720.2						
2017	9-Jul-17	10	597.4	674.6						
2017	9-Jul-17	11	612.2	587.8						
2017	9-Jul-17	12	422.9	431.4					7	
2017	9-Jul-17	13	332	309.8					10.7	
2017	9-Jul-17	14	260.6	284.1					38.9	
2017	9-Jul-17	15	294.3	306					53.2	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	9-Jul-17	16	406	468.1					43.7	
2017	9-Jul-17	17	396.2	548.7					61.1	
2017	9-Jul-17	18	401.6	537.1					56.4	
2017	9-Jul-17	19	329.5	461.9					57.1	
2017	9-Jul-17	20	278.8	367.8					59.5	
2017	9-Jul-17	21	181.1	277.3					56.1	
2017	9-Jul-17	22	156.3	224.1					56.8	
2017	9-Jul-17	23	119.1	160.1					60.1	
2017	10-Jul-17	0	120	141.1					64.8	
2017	10-Jul-17	1	119.5	97.7					65.3	
2017	10-Jul-17	2	117.2	92.9					73.8	
2017	10-Jul-17	3	107	93.3					76.6	
2017	10-Jul-17	4	145.1	119.9					79.7	
2017	10-Jul-17	5	432.4	289.7					81.8	
2017	10-Jul-17	6	711	584.8					91.6	
2017	10-Jul-17	7	718.7	675.4		0			121	
2017	10-Jul-17	8	619.5	606.8		0			178.2	
2017	10-Jul-17	9	298.6	517.9		0			367.9	
2017	10-Jul-17	10	402.5	555.3		0			497.7	
2017	10-Jul-17	11	622.9	583.5		0			591.668	
2017	10-Jul-17	12	622.8	603.8		0				
2017	10-Jul-17	13	641.7	624.7		0				
2017	10-Jul-17	14	656.6	623.7		0			4.256	0
2017	10-Jul-17	15	649	669.8		0			0.02	0
2017	10-Jul-17	16	706.8	793.5		0				0
2017	10-Jul-17	17	792.8	844.1		0	0		4.565	0
2017	10-Jul-17	18	730.4	638.9		0	0		59.3	0
2017	10-Jul-17	19	749.8	620.9		0	0		88.3	0
2017	10-Jul-17	20	716.9	570		0	0		86.4	0
2017	10-Jul-17	21	531.4	399.1		0	0		85.3	0
2017	10-Jul-17	22	325.5	258.8		0	0		100.9	45.9
2017	10-Jul-17	23	261.8	158.3		0	57.8		134.5	45.9
2017	11-Jul-17	0	177.6	123		0	234.4		188.9	45.9
2017	11-Jul-17	1	122.5	96.8		0	258.2		239.9	45.9
2017	11-Jul-17	2	114.9	109.2		0	253.9		222.7	45.9
2017	11-Jul-17	3	109.9	103.9		0	257.7		271.6	45.9
2017	11-Jul-17	4	100.6	103.2		0	261.2		294.4	45.9
2017	11-Jul-17	5	95.4	104.1		0	262.3		354.2	88
2017	11-Jul-17	6	106.8	103.4		0	260.6		389.9	150.9
2017	11-Jul-17	7	195.2	100.4		0	534.1		537.4	239.8
2017	11-Jul-17	8	231.8	84		0	783.2		580.9	462.6
2017	11-Jul-17	9	256.7	86		0	1423.8		559	557.4
2017	11-Jul-17	10	245.1	147.3		0	2002.9		605.9	408.2
2017	11-Jul-17	11	333.3	253		0	1611.4		592.8	395.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	11-Jul-17	12	386.4	345.5			1650.9		583.5	393.4
2017	11-Jul-17	13	514.6	527.9			1855.9		556.5	429.5
2017	11-Jul-17	14	575.4	606.8			2144.5		708.7	538.4
2017	11-Jul-17	15	659.1	756.3			2407.2		818.9	628.4
2017	11-Jul-17	16	818.7	817.5			2282		881.4	754.6
2017	11-Jul-17	17	769.2	805.5			2141.8		888.4	762.6
2017	11-Jul-17	18	648.9	875.7			1896.6		904.8	723.3
2017	11-Jul-17	19	473.2	727.9			1828.9		898.7	724.6
2017	11-Jul-17	20	587.2	770.2			1976.3		899	705.9
2017	11-Jul-17	21	537.6	593.4			1987.1		913.6	560.9
2017	11-Jul-17	22	392.7	408.3			2024.8		921.9	533.7
2017	11-Jul-17	23	297.4	272.1			2019		917	519
2017	12-Jul-17	0	150.5	199.9			2018.2		936.6	501.4
2017	12-Jul-17	1	106.7	159.8			1995		898.7	504.1
2017	12-Jul-17	2	118.6	111			2079.9		889.6	495.4
2017	12-Jul-17	3	123.4	106.1			2533.3		897.7	490.2
2017	12-Jul-17	4	109.9	101.3			2775.6		944.6	487.5
2017	12-Jul-17	5	107.5	95.7			2903.6		961.9	447.7
2017	12-Jul-17	6	103.2	90.6			3056.6		994.7	447.3
2017	12-Jul-17	7	84.6	91.3			3387.4		996	430.4
2017	12-Jul-17	8	86.2	81.8			3399.6		1022.5	423.3
2017	12-Jul-17	9	172.6	134.1			3388.1		1130.5	420.3
2017	12-Jul-17	10	216.6	212.4			3420.3		1183.3	403.3
2017	12-Jul-17	11	247.7	238.8			3422.1		1192.8	424.6
2017	12-Jul-17	12	293.4	293.1			3453.2		1179.7	431.7
2017	12-Jul-17	13	536.4	447.5			3452.5		1183.9	424.3
2017	12-Jul-17	14	678.1	522.8			3425.1		1164.6	415.7
2017	12-Jul-17	15	782.5	532.3			3411		1189.9	679.6
2017	12-Jul-17	16	767.4	502.3			3377.7		1157.9	850.9
2017	12-Jul-17	17	791	528.5			3397.3		1158.2	950.2
2017	12-Jul-17	18	808.8	538.3			3398		1108.7	930.3
2017	12-Jul-17	19	829.5	540.3			3393.3		1117	812.7
2017	12-Jul-17	20	841.5	535.4			3375		1121.5	899.3
2017	12-Jul-17	21	611.1	465.6			3350.4		1022.8	660.4
2017	12-Jul-17	22	443.7	373.5			3344.2		853.9	425.9
2017	12-Jul-17	23	297.1	301			3244.7		844.8	403.4
2017	13-Jul-17	0	259.4	251.7			2978.1		855.7	387.4
2017	13-Jul-17	1	197.4	193.7			2566.3		820.8	393.4
2017	13-Jul-17	2	154.5	158.8			2176.1		833.5	398
2017	13-Jul-17	3	105.7	117.2			1808		815.2	400.6
2017	13-Jul-17	4	102.6	81.3			1849		812	389.2
2017	13-Jul-17	5	99.9	79.5			1858		778.5	393.6
2017	13-Jul-17	6	118.9	90.9			1882		768.5	399
2017	13-Jul-17	7	216.7	205			1813.3		804.6	406.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	13-Jul-17	8	332.4	272.8			1812.2		959.4	413.2
2017	13-Jul-17	9	611.4	425.6			1873.8		1067.5	419.6
2017	13-Jul-17	10	637.3	478.8			1932		1083.8	492.5
2017	13-Jul-17	11	656.5	449.9			2531.3		1148.1	773.9
2017	13-Jul-17	12	682.1	447.3			2978.5		1222.5	938
2017	13-Jul-17	13	679	484.8			3282.3		1201	1062.3
2017	13-Jul-17	14	681.5	430.4			3219.5		1130.4	948.1
2017	13-Jul-17	15	691.4	445.2			3247.1		1176.9	1059.5
2017	13-Jul-17	16	662.9	436.5			3135.6		945.6	903.4
2017	13-Jul-17	17	706.9	442.5			3183.9		926.8	957.7
2017	13-Jul-17	18	653.6	455.5			3194		954.4	1020.3
2017	13-Jul-17	19	640.7	445.3			3059.9		803	852.6
2017	13-Jul-17	20	544.9	424.1			2909.5		792.4	784.4
2017	13-Jul-17	21	354.5	344			2514.7		797.2	660.7
2017	13-Jul-17	22	283.3	264.3			1890.1		792.8	509.3
2017	13-Jul-17	23	256.6	224.6			1355.3		772.7	225.488
2017	14-Jul-17	0	256.8	214.9			360.72		775.5	
2017	14-Jul-17	1	258.3	222.6					762.5	
2017	14-Jul-17	2	261.2	223.2					737	
2017	14-Jul-17	3	272.3	220.4					710.5	
2017	14-Jul-17	4	245	214.3					707	
2017	14-Jul-17	5	198.4	178.3					733.4	
2017	14-Jul-17	6	199.2	152.7					758.5	
2017	14-Jul-17	7	220.4	197.4					775.6	
2017	14-Jul-17	8	273.6	239.6					793.8	
2017	14-Jul-17	9	360	294.5					682.7	
2017	14-Jul-17	10	573.2	468.3					604.3	
2017	14-Jul-17	11	698	633.1					782.2	
2017	14-Jul-17	12	744.8	637.8					904.2	
2017	14-Jul-17	13	708.8	553.2					997	
2017	14-Jul-17	14	762.1	553.2					1194	
2017	14-Jul-17	15	755.6	488.4					936.2	
2017	14-Jul-17	16	668.8	448.5					800.9	
2017	14-Jul-17	17	717.8	471.8					782.3	
2017	14-Jul-17	18	594.7	459.4					797.1	
2017	14-Jul-17	19	503.6	296.2					820.4	
2017	14-Jul-17	20	289.7	261.5					800.1	
2017	14-Jul-17	21	237.8	213.8					794.1	
2017	14-Jul-17	22	136.1	134.3					876.1	
2017	14-Jul-17	23	106.3	73.2					747.2	
2017	15-Jul-17	0	98.3	73.5					707.2	
2017	15-Jul-17	1	97.3	77.7					703.7	
2017	15-Jul-17	2	92.6	78.3					701	
2017	15-Jul-17	3	94	78.4					709.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	15-Jul-17	4	115.1	86.7					693.4	
2017	15-Jul-17	5	206.7	167.7					684.2	
2017	15-Jul-17	6	252.8	175.3					717.5	
2017	15-Jul-17	7	211	156.7					742.8	
2017	15-Jul-17	8	193	156.4					759.2	
2017	15-Jul-17	9	177.9	156.1					770.9	
2017	15-Jul-17	10	239.4	178.4					774.2	
2017	15-Jul-17	11	285.6	207.5					756.8	
2017	15-Jul-17	12	360.5	267.3					741	
2017	15-Jul-17	13	335.9	283.6					747.1	
2017	15-Jul-17	14	412.7	347.9					746.7	
2017	15-Jul-17	15	444.9	381.9					747.1	
2017	15-Jul-17	16	495.5	455					857.8	
2017	15-Jul-17	17	423.7	372.7					759.6	
2017	15-Jul-17	18	429.3	390.5					775.1	
2017	15-Jul-17	19	276	245.4					765.6	
2017	15-Jul-17	20	195.5	153.1					768.7	
2017	15-Jul-17	21	115.6	95.9					755.1	
2017	15-Jul-17	22	108.6	90.5					737	
2017	15-Jul-17	23	99.2	84.3					551.2	
2017	16-Jul-17	0	101.1	93.5					511.1	
2017	16-Jul-17	1	97.3	89.9					500	
2017	16-Jul-17	2	98.5	89.9					502.6	
2017	16-Jul-17	3	119.2	110.5					507.4	
2017	16-Jul-17	4	314.2	243.2					510.1	
2017	16-Jul-17	5	456	356.2					527	
2017	16-Jul-17	6	560.7	542.5					530.7	
2017	16-Jul-17	7	658.1	683.8					520.4	
2017	16-Jul-17	8	426.7	573.6					519.1	
2017	16-Jul-17	9	274.2	483.3					533.6	
2017	16-Jul-17	10	181.1	398.3					534.1	
2017	16-Jul-17	11	183.2	324					534.2	
2017	16-Jul-17	12	230.4	346.2					539.5	
2017	16-Jul-17	13	298	375.1					538.2	
2017	16-Jul-17	14	397.8	442					537.5	
2017	16-Jul-17	15	514.8	531.7					541.7	
2017	16-Jul-17	16	626.2	650.7					551.7	
2017	16-Jul-17	17	682.3	732.7					542.3	
2017	16-Jul-17	18	617.3	724.4					539.9	
2017	16-Jul-17	19	530.8	506.3					518.4	
2017	16-Jul-17	20	371.2	380.1					526.7	
2017	16-Jul-17	21	201.5	233.2					528	
2017	16-Jul-17	22	121.2	122.3					516.1	
2017	16-Jul-17	23	94.8	79.5					510.6	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	17-Jul-17	0	86.5	80.9					502.7	
2017	17-Jul-17	1	83.7	80.2					521.3	
2017	17-Jul-17	2	83.2	78					511.5	
2017	17-Jul-17	3	96.5	84.2					507.1	
2017	17-Jul-17	4	234.6	195.5					508.4	
2017	17-Jul-17	5	321.4	294.3					509.7	
2017	17-Jul-17	6	305.9	298.1					517.5	
2017	17-Jul-17	7	227.9	254.2					525.3	
2017	17-Jul-17	8	246.7	289.7					536.9	
2017	17-Jul-17	9	360.4	380.5					544.2	
2017	17-Jul-17	10	373.7	465.7					543.7	
2017	17-Jul-17	11	529.5	555.6					591.9	
2017	17-Jul-17	12	604.6	623					691.1	
2017	17-Jul-17	13	685.4	656.1					640.9	
2017	17-Jul-17	14	642.9	630.2					979.8	
2017	17-Jul-17	15	632.9	656.5					1147.6	
2017	17-Jul-17	16	642.2	652.9					1116.6	
2017	17-Jul-17	17	697.8	691.8					1047.8	
2017	17-Jul-17	18	695.2	702.6					927.6	
2017	17-Jul-17	19	770.9	738.2					920.2	
2017	17-Jul-17	20	790.3	767.7					882.4	
2017	17-Jul-17	21	488.6	536.6					821.4	
2017	17-Jul-17	22	262	309.2					651	
2017	17-Jul-17	23	147.9	161.3					557.7	
2017	18-Jul-17	0	100.1	86.8					549.1	
2017	18-Jul-17	1	104.1	84.2					542.7	
2017	18-Jul-17	2	98.8	79.8					535.9	
2017	18-Jul-17	3	98.7	85.3					542.1	
2017	18-Jul-17	4	93.5	87.4					576.5	
2017	18-Jul-17	5	93.2	82.1					563.9	
2017	18-Jul-17	6	141.1	121.5					613.9	
2017	18-Jul-17	7	213.9	216.3					593.2	
2017	18-Jul-17	8	259.1	288.8					575.5	
2017	18-Jul-17	9	308	306					573.8	
2017	18-Jul-17	10	430.6	367.8					616.8	
2017	18-Jul-17	11	672.8	534.8					611.3	
2017	18-Jul-17	12	778.7	751.6					608.3	
2017	18-Jul-17	13	842.7	814.2					592.8	
2017	18-Jul-17	14	868.7	801.4					675.7	
2017	18-Jul-17	15	902.8	823.7					1040.6	
2017	18-Jul-17	16	877.1	798.4					1120.2	
2017	18-Jul-17	17	787.6	802.5					1081.1	
2017	18-Jul-17	18	830.1	863.2					1051.7	
2017	18-Jul-17	19	929.3	896					988.4	0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Jul-17	20	921	886					999.3	0
2017	18-Jul-17	21	806.9	749.9					813.4	0.3
2017	18-Jul-17	22	443.8	524.7					815.6	0
2017	18-Jul-17	23	378.2	347.7					717.1	0
2017	19-Jul-17	0	278.2	238.5					604	0
2017	19-Jul-17	1	186.9	150.5					592.2	0
2017	19-Jul-17	2	126.7	106.6					605.6	0
2017	19-Jul-17	3	124.1	100.4					598.9	0
2017	19-Jul-17	4	119.8	103.2					613.4	0
2017	19-Jul-17	5	111.6	102.7					646.8	0
2017	19-Jul-17	6	158.2	119					617.3	21.5
2017	19-Jul-17	7	242	219.5					589.7	76.9
2017	19-Jul-17	8	360.7	323.9					588.6	274.3
2017	19-Jul-17	9	629.9	458.4					594.4	194.097
2017	19-Jul-17	10	822.1	857.4					581.2	91.9
2017	19-Jul-17	11	885.1	896.6					583.5	436.2
2017	19-Jul-17	12	956	963.8					592.9	364.3
2017	19-Jul-17	13	960.1	968.8					583.6	89.6
2017	19-Jul-17	14	966	943.9		0			731.5	62.243
2017	19-Jul-17	15	1017.3	935.6		0			1038.2	
2017	19-Jul-17	16	1039	967		0			1069.9	
2017	19-Jul-17	17	1016.1	949.2		0			1080.9	
2017	19-Jul-17	18	1039.9	951.3		0			1096.2	
2017	19-Jul-17	19	996.4	969.6		0			1097.6	
2017	19-Jul-17	20	1043.4	954.6		0			1073.1	
2017	19-Jul-17	21	1024.2	974.1		0	0		891.2	
2017	19-Jul-17	22	670.7	771.4		0	0		845.2	
2017	19-Jul-17	23	431.7	546.1		0	0		629.5	
2017	20-Jul-17	0	271.5	367.6	0.045	0	35.9	0.048	561.2	
2017	20-Jul-17	1	207.8	276.5	0.068	0	137.3	0.067	565.7	
2017	20-Jul-17	2	131.1	168.7	0.084	0	230.5	0.062	566.6	
2017	20-Jul-17	3	122.3	124.1	0.075	0	296.8	0.053	572.7	
2017	20-Jul-17	4	116.2	102.9	0.07	0	329.1	0.047	614.7	
2017	20-Jul-17	5	126.3	100.3	0.056	0	575.4	0.047	610.1	
2017	20-Jul-17	6	194.3	109.7	0.046	0	930.1	0.047	601.1	
2017	20-Jul-17	7	324.2	258.8	0.05	151.9	1674.5	377.122	611.3	
2017	20-Jul-17	8	464.8	410.1	0.081	393.5	1977.4	490.562	589.9	
2017	20-Jul-17	9	677.7	583.7	0.162	468.1	1985.9	618.267	618.2	
2017	20-Jul-17	10	696.7	594.5	0.34	392.8	2078.6	569.778	629.8	
2017	20-Jul-17	11	748.9	682.4	0.371	370.4	2365.1	716.18	625.9	
2017	20-Jul-17	12	846.4	815.6	0.424	516.8	2706.5	941.366	850.8	
2017	20-Jul-17	13	914.4	875.7	0.469	867.2	3015.2	847.254	1013.7	
2017	20-Jul-17	14	876.8	793.5	0.411	821.4	3190.1	795.531	1072.3	
2017	20-Jul-17	15	894.8	827.5	0.444	857.9	3209.2	800.531	1069	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	20-Jul-17	16	829.7	764.1	0.6	1055.1	3292.2	803.131	1071.5	
2017	20-Jul-17	17	807	729.4	0.656	1173.1	3214.2	876.611	1076	
2017	20-Jul-17	18	670.4	615.3	0.37	1178	3201.5	833.2	1034.3	
2017	20-Jul-17	19	657	627.4	0.329	1092.5	3152.3	831.4	913.3	
2017	20-Jul-17	20	662	617	0.325	704	3143	832.6	899	
2017	20-Jul-17	21	622.9	598	0.325	711.6	2994.7	835.8	883.9	
2017	20-Jul-17	22	444.7	517.2	0.059	676.9	2743.5	831.9	884.5	
2017	20-Jul-17	23	347.6	414.6		620.3	2475	806.2	684.2	
2017	21-Jul-17	0	484.5	479.2		637.3	2211.2	782.4	651.9	
2017	21-Jul-17	1	523.1	382.6		548	2109	541.066	631.1	
2017	21-Jul-17	2	389.5	239.6		529.3	2112.3	0.075	611	
2017	21-Jul-17	3	300.5	191		530	2115.3	0.119	613.1	
2017	21-Jul-17	4	293.4	226.7		533.4	2152.1	0.096	634.3	
2017	21-Jul-17	5	292.6	232.8		526.2	2155.4	0.109	647.6	
2017	21-Jul-17	6	578.3	309.3		532	2142.2	0.109	604.4	
2017	21-Jul-17	7	699.3	660.3		553	2138.2	0.1	601.1	
2017	21-Jul-17	8	762.5	760.6		541.1	2144	0.078	584.3	
2017	21-Jul-17	9	770.4	1022.2		498.2	2142.8	396.182	585.6	
2017	21-Jul-17	10	593.8	840.3		492.6	2155.7	622.578	589.8	
2017	21-Jul-17	11	725.7	777.5		547.2	2181.1	772.863	595.9	
2017	21-Jul-17	12	789.5	763.4		570.7	2330.9	818.139	627.3	1.026
2017	21-Jul-17	13	751.5	712.7		595.9	2615.3	833.931	810.8	0.6
2017	21-Jul-17	14	697.9	686.7		599.7	2884.6	838.331	903.5	2
2017	21-Jul-17	15	721.2	712		615.2	3082	838.331	975.1	0.3
2017	21-Jul-17	16	749.6	750.2		682.3	3285.3	883.508	1098.2	0
2017	21-Jul-17	17	754.3	782.5		801.6	3418.5	929.9	1086.6	0
2017	21-Jul-17	18	713.1	733.4		757.8	3347.5	1538	1037	0
2017	21-Jul-17	19	728.6	715.3		1140.2	3318.6	1344.3	1051.8	
2017	21-Jul-17	20	771.7	763.9		1219	3340.8	383.125	1048	
2017	21-Jul-17	21	677.9	676.7		1242.3	3289.9	0.021	888.6	
2017	21-Jul-17	22	457.2	569.9		1216.8	3169.8		796.6	
2017	21-Jul-17	23	293	459.2		844.1	2937.6		617.6	
2017	22-Jul-17	0	434	532.7		399.3	2701.7		642	
2017	22-Jul-17	1	306.3	318		440.5	2458.3		636.5	
2017	22-Jul-17	2	256.8	353.1		463.1	2194.9		621.7	
2017	22-Jul-17	3	244.1	448.7		41.958	1970.2		631	
2017	22-Jul-17	4	464.2	473.6			1880.6		622.7	
2017	22-Jul-17	5	631.4	314.8			1907.6		637.7	
2017	22-Jul-17	6	624.8	428.5			1921.1		646.4	
2017	22-Jul-17	7	351	414.8			1885.6		640.4	
2017	22-Jul-17	8	537.9	696.7			1900.4		630.5	
2017	22-Jul-17	9	771.3	580.4			1928.9		635.3	
2017	22-Jul-17	10	990	743.9			2021.5		640.5	
2017	22-Jul-17	11	908.8	1022.5			2242.8		655.9	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	22-Jul-17	12	705.3	1111			2459.1		836.2	
2017	22-Jul-17	13	770.1	706.2			2707.2		871	
2017	22-Jul-17	14	704.3	645.8			2667.5		827.9	
2017	22-Jul-17	15	744.6	715.7			2851.7		872	
2017	22-Jul-17	16	674.3	711.4			2772		832.5	
2017	22-Jul-17	17	592.7	610.7			2534.2		799.6	
2017	22-Jul-17	18	453.4	466.7			2279.9		801.2	
2017	22-Jul-17	19	416.7	428.4			2102		642.6	
2017	22-Jul-17	20	443.8	491.6			2013.4		574.7	
2017	22-Jul-17	21	372.2	367.6			1972.4		559.5	
2017	22-Jul-17	22	438.8	257			1998.4		570.4	
2017	22-Jul-17	23	363.2	271.2			1985.6		581.8	
2017	23-Jul-17	0	273.7	245.5			1967		588.4	
2017	23-Jul-17	1	291	227.2			1982.3		587.7	
2017	23-Jul-17	2	272.6	216.5			1966.4		591.5	
2017	23-Jul-17	3	282.2	223.1			1975.4		605	
2017	23-Jul-17	4	272.2	210.4			1974		608.6	
2017	23-Jul-17	5	296.6	211.2			1956.8		602.1	
2017	23-Jul-17	6	312.2	205.9			1955.6		612.2	
2017	23-Jul-17	7	319	223.3			1913.7		614.6	
2017	23-Jul-17	8	342.9	229.6			1931.1		589.2	
2017	23-Jul-17	9	481.5	356.1			1930.1		597	
2017	23-Jul-17	10	802.4	795			1950.8		589.2	
2017	23-Jul-17	11	749.7	554			2028.2		620.8	
2017	23-Jul-17	12	667.3	654.7			2094.2		600	
2017	23-Jul-17	13	751.5	715			2187.8		611.9	
2017	23-Jul-17	14	670.3	682.2			2147.2		605	
2017	23-Jul-17	15	759.5	796			2359.8		661	
2017	23-Jul-17	16	626.2	595.5			2182.7		619.8	
2017	23-Jul-17	17	616.2	542.6			2169.7		634.9	
2017	23-Jul-17	18	576.4	536.1			2201		902.7	
2017	23-Jul-17	19	447	455.6			2172.6		844.4	
2017	23-Jul-17	20	409.8	401.3			2184.6		627	
2017	23-Jul-17	21	465	427.6			2195.9		636.5	
2017	23-Jul-17	22	315.6	436.7			2210.2		641.8	
2017	23-Jul-17	23	307.4	487.2			2217.2		651.3	
2017	24-Jul-17	0	351.9	363.7			2221.2		656.1	
2017	24-Jul-17	1	325.9	235.4			2202.4		648.6	
2017	24-Jul-17	2	295.8	398.5			2177.7		651.4	
2017	24-Jul-17	3	291.4	490.1			1998.6		682.3	
2017	24-Jul-17	4	300	476.5			1967.3		682.2	
2017	24-Jul-17	5	321.2	407.5			1943.2		685.3	
2017	24-Jul-17	6	298.2	704.2			2159		698.2	
2017	24-Jul-17	7	267.3	589.9			2154.4		714.3	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	24-Jul-17	8	277.5	595.3			2147.3		697	
2017	24-Jul-17	9	286.8	576.8			2156.7		665.3	
2017	24-Jul-17	10	306.3	580.3			2176.7		636.7	
2017	24-Jul-17	11	347.5	602.2			2167.3		629.2	
2017	24-Jul-17	12	469	734.9			2267		666.7	
2017	24-Jul-17	13	504	893.2			2385.4		709.8	
2017	24-Jul-17	14	679	1156.6			2857.5		781.9	
2017	24-Jul-17	15	764.3	673.2			3180.4		835.7	
2017	24-Jul-17	16	819.4	709.8			3402.1		1049	
2017	24-Jul-17	17	796.4	663.7			3352		1022.5	
2017	24-Jul-17	18	775.1	636.9			3142.7		971.9	
2017	24-Jul-17	19	711.9	645.9			2869.2		915.4	
2017	24-Jul-17	20	558.4	623.2			2552.8		871.2	
2017	24-Jul-17	21	402.5	500.5			2288.6		894.4	
2017	24-Jul-17	22	256.4	371.6			2142.2		902.9	
2017	24-Jul-17	23	152.7	258.2			2030		645.4	
2017	25-Jul-17	0	146.5	177.5			2025.1		83.191	
2017	25-Jul-17	1	315.5	130.3			1967.9			
2017	25-Jul-17	2	367.3	237.4			2114.1			
2017	25-Jul-17	3	456.3	267.2			2192.2			
2017	25-Jul-17	4	546.3	340.9			2202.5			
2017	25-Jul-17	5	494.4	386.8			2234.7			
2017	25-Jul-17	6	740.1	368.1			2144.4			
2017	25-Jul-17	7	880.1	704.4			2089.3			
2017	25-Jul-17	8	839.9	783.1			2079.6			
2017	25-Jul-17	9	862.8	783.1			2077.7			
2017	25-Jul-17	10	838.9	789	0.003		2095.5			
2017	25-Jul-17	11	792.1	798.5	0.019		2366			
2017	25-Jul-17	12	750.3	682.4	0.048		2353.9			
2017	25-Jul-17	13	720	641.4	0.048		2568.8			
2017	25-Jul-17	14	688.4	607.7	0.06		2527.6			
2017	25-Jul-17	15	683	631.6	0.07		2731.2			
2017	25-Jul-17	16	658	660.4	0.066		3158.8			
2017	25-Jul-17	17	732.9	685	0.046		3366.3			
2017	25-Jul-17	18	706.1	662.2	0.046		3404.1			
2017	25-Jul-17	19	662.6	682.5	0.046		3427.5			
2017	25-Jul-17	20	669.9	674	0.046		3422			
2017	25-Jul-17	21	550.5	576.8	0.046		3160.9			
2017	25-Jul-17	22	313.6	446.1	0.046		2870.8			
2017	25-Jul-17	23	483.2	480	0.046		2629.9			
2017	26-Jul-17	0	310.4	387.9	0.046		2371.6			
2017	26-Jul-17	1	209.2	192.8	0.046		2215.5			
2017	26-Jul-17	2	212.7	159.1	0.046		2152.8			
2017	26-Jul-17	3	215	175	0.046		2129.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	26-Jul-17	4	241.3	197.1	0.046		2142.6			
2017	26-Jul-17	5	446.8	321.4	0.046		2153.4			
2017	26-Jul-17	6	520.6	743.2	0.046		2166.4			
2017	26-Jul-17	7	362.1	413.4	0.046		2146.7			
2017	26-Jul-17	8	330	370.8	0.046		2162.1			
2017	26-Jul-17	9	374.5	378.3	0.046		2162.4			
2017	26-Jul-17	10	391.8	398.1	0.046		2166.4			0
2017	26-Jul-17	11	517.2	440.3	0.053		2384.4			0
2017	26-Jul-17	12	639.2	559	0.047		2659.6			2.3
2017	26-Jul-17	13	658.9	658.9	0.045		2744.3			17.6
2017	26-Jul-17	14	671.3	742.4	0.045		2746.7			15.2
2017	26-Jul-17	15	848.5	818.4	0.008		2918.5			12.3
2017	26-Jul-17	16	886.9	804.2			2947.2			11.9
2017	26-Jul-17	17	842.3	793.2			3019.8			8
2017	26-Jul-17	18	790	725.9			3232.2			8.2
2017	26-Jul-17	19	825.2	685.8			3203.9			10.3
2017	26-Jul-17	20	623.7	635.3			3062.5			11.7
2017	26-Jul-17	21	564.1	564			2856.7			33
2017	26-Jul-17	22	596.9	594.3			2621.5			49.4
2017	26-Jul-17	23	462.7	454.3			2326.7			90.7
2017	27-Jul-17	0	375.4	308.3			2180.6			144.6
2017	27-Jul-17	1	459.2	189.8			2078.6			188.5
2017	27-Jul-17	2	275.7	104.9			2061.8			280.7
2017	27-Jul-17	3	548.1	257.3			2395.1			332.2
2017	27-Jul-17	4	670.3	551.4			2886.9			370.9
2017	27-Jul-17	5	699.3	751.7			3224.2			451.6
2017	27-Jul-17	6	748.5	740.8			3280.9			514.8
2017	27-Jul-17	7	756.9	768.1			3174.6			468.6
2017	27-Jul-17	8	771.2	758			3013.6			383.5
2017	27-Jul-17	9	785.5	776.4			2864.5			565.4
2017	27-Jul-17	10	829.7	775.6			3321.8			935.8
2017	27-Jul-17	11	952.1	831.5			3370.6			1078.5
2017	27-Jul-17	12	896.7	825.3			3024.8			1095.3
2017	27-Jul-17	13	936.9	837.6			2872.5			1150.3
2017	27-Jul-17	14	744.1	658.1			2937.3			1182.2
2017	27-Jul-17	15	753.6	707.5			2677.7			1133.3
2017	27-Jul-17	16	859.2	740.4			2402.2			1098.2
2017	27-Jul-17	17	805.3	678.6			2112.4			975.9
2017	27-Jul-17	18	884.9	727.8			1973.1			865.6
2017	27-Jul-17	19	923.7	798			2030.5			853.1
2017	27-Jul-17	20	803.5	705.4			1807.4			693.6
2017	27-Jul-17	21	786.1	608.4			1815.7			605.2
2017	27-Jul-17	22	661.6	568.9			1785.5			590.7
2017	27-Jul-17	23	405.2	391.3			1447.3			329.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	28-Jul-17	0	409.7	253.3			101.196			47.9
2017	28-Jul-17	1	348.2	140.2						0.725
2017	28-Jul-17	2	235.3	158.9						
2017	28-Jul-17	3	421.3	305.7						
2017	28-Jul-17	4	516.8	382.7						
2017	28-Jul-17	5	709.1	364.5						
2017	28-Jul-17	6	771.9	574.1						
2017	28-Jul-17	7	624.2	724.3						
2017	28-Jul-17	8	488.7	729.4						
2017	28-Jul-17	9	386.3	579.7						
2017	28-Jul-17	10	394.4	495.4						
2017	28-Jul-17	11	729.6	631						
2017	28-Jul-17	12	731.2	621.5						
2017	28-Jul-17	13	949.5	705.6						
2017	28-Jul-17	14	788.6	657.4						
2017	28-Jul-17	15	666.7	642.2						
2017	28-Jul-17	16	711.2	615.6						
2017	28-Jul-17	17	449.1	626.7						
2017	28-Jul-17	18	280.7	545.3						
2017	28-Jul-17	19	269.2	446.6						
2017	28-Jul-17	20	269.1	273.4						
2017	28-Jul-17	21	283.1	233.1						
2017	28-Jul-17	22	199.4	144.8						
2017	28-Jul-17	23	150.3	85.5						
2017	29-Jul-17	0	133.9	116.8						
2017	29-Jul-17	1	138.6	109.1						
2017	29-Jul-17	2	120.5	96.6						
2017	29-Jul-17	3	121.4	100.4						
2017	29-Jul-17	4	136.7	123.6						
2017	29-Jul-17	5	155.8	195.4						
2017	29-Jul-17	6	475.6	368.4						
2017	29-Jul-17	7	329.1	510.8						
2017	29-Jul-17	8	406.6	369.4						
2017	29-Jul-17	9	537.5	461						
2017	29-Jul-17	10	611.5	550.3						
2017	29-Jul-17	11	640.9	574.5						
2017	29-Jul-17	12	621	583.6						
2017	29-Jul-17	13	648	569.2						
2017	29-Jul-17	14	672.2	574.3						
2017	29-Jul-17	15	686.2	558						
2017	29-Jul-17	16	672.4	557.1						
2017	29-Jul-17	17	696.5	579.8						
2017	29-Jul-17	18	640.3	542.8						
2017	29-Jul-17	19	629.8	560.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	29-Jul-17	20	634.9	564.2						
2017	29-Jul-17	21	683.1	566.7						
2017	29-Jul-17	22	653.2	544.2						
2017	29-Jul-17	23	659.9	533.7						
2017	30-Jul-17	0	489	369.1						
2017	30-Jul-17	1	470.1	355.8						
2017	30-Jul-17	2	379.2	254.8						
2017	30-Jul-17	3	302.9	230.3						
2017	30-Jul-17	4	258.8	442.1						
2017	30-Jul-17	5	340.5	329.8						
2017	30-Jul-17	6	515.8	486.8						
2017	30-Jul-17	7	663.4	377						
2017	30-Jul-17	8	473.9	319.8						
2017	30-Jul-17	9	737	360.7						
2017	30-Jul-17	10	686.4	455.6						
2017	30-Jul-17	11	719.8	500.4						
2017	30-Jul-17	12	831.9	519.1						
2017	30-Jul-17	13	792.2	610.4						
2017	30-Jul-17	14	399.7	681.2						
2017	30-Jul-17	15	568.5	729.6						
2017	30-Jul-17	16	728.6	647						
2017	30-Jul-17	17	697.5	465.8						
2017	30-Jul-17	18	641.5	470.3						
2017	30-Jul-17	19	477.8	460.1						
2017	30-Jul-17	20	346.1	413.5						
2017	30-Jul-17	21	348.7	599.9						
2017	30-Jul-17	22	671.1	590.2						
2017	30-Jul-17	23	461.9	357.3						
2017	31-Jul-17	0	321.2	308.8						
2017	31-Jul-17	1	264.8	204.4						
2017	31-Jul-17	2	286.7	216.1						
2017	31-Jul-17	3	385.4	263.6						
2017	31-Jul-17	4	603.9	476.4						
2017	31-Jul-17	5	678.7	636						
2017	31-Jul-17	6	622.5	578.2						
2017	31-Jul-17	7	421.3	403.3						
2017	31-Jul-17	8	579	375.9						
2017	31-Jul-17	9	696	537.7						
2017	31-Jul-17	10	661.2	685.3						
2017	31-Jul-17	11	741.1	837.3						
2017	31-Jul-17	12	888	819.7						
2017	31-Jul-17	13	806.7	652.2	0.007					
2017	31-Jul-17	14	749.8	669.5	0.025					
2017	31-Jul-17	15	782.7	732.3	0.047					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	31-Jul-17	16	810.8	738.7	0.061					
2017	31-Jul-17	17	861.7	681.9	0.047					
2017	31-Jul-17	18	840.5	688.7	0.056					
2017	31-Jul-17	19	838.7	605.3	0.08					
2017	31-Jul-17	20	803.8	762.3	0.086					
2017	31-Jul-17	21	647.4	506.6	0.088					
2017	31-Jul-17	22	528.9	358.1	0.078					
2017	31-Jul-17	23	436	307.3	0.071					
2017	1-Aug-17	0	365.6	342.3	0.068		27.473			
2017	1-Aug-17	1	342.4	415.6	0.064		348.1			
2017	1-Aug-17	2	296.4	594.5	0.071		405.5			
2017	1-Aug-17	3	227.4	428.6	0.073		778.6			
2017	1-Aug-17	4	319.5	363.5	0.102		1277.9			
2017	1-Aug-17	5	602.9	305	0.134		1666.8			
2017	1-Aug-17	6	610.7	551.5	0.271		1718.6			
2017	1-Aug-17	7	657.2	568.3	0.399		1729.9			
2017	1-Aug-17	8	570.5	544.1	0.387		1824.4			
2017	1-Aug-17	9	555.3	512.5	0.386		1890.6	0.008		
2017	1-Aug-17	10	367.9	238.2	0.385		1936.7	0.058		
2017	1-Aug-17	11	458.7	318.1	0.385		1976.6	0.096		
2017	1-Aug-17	12	797.2	572.6	0.384		2088.8	0.123		
2017	1-Aug-17	13	892.8	656.8	0.675		2130	0.125		
2017	1-Aug-17	14	883	760.8	0.844		2451.1	0.108		
2017	1-Aug-17	15	884.8	701	0.847		2533.7	0.062		
2017	1-Aug-17	16	752.5	680	0.842		2387.4	0.062		
2017	1-Aug-17	17	685.1	602.6	0.803		2290.7	0.062		
2017	1-Aug-17	18	519	467.3	0.814		2093.2	0.062		
2017	1-Aug-17	19	398.4	351	0.817		1908.1	0.062		
2017	1-Aug-17	20	473.1	410.5	0.595		1991.7	0.062		
2017	1-Aug-17	21	400.9	293	0.152		1990	0.062		
2017	1-Aug-17	22	479	283.6			1992	0.062		
2017	1-Aug-17	23	451.5	572.8			2009.6	0.062		
2017	2-Aug-17	0	321.8	245.6			1979.4	148.8		
2017	2-Aug-17	1	327.1	230.8			1985.9	615.9		
2017	2-Aug-17	2	309.9	219.7			2012.4	1118.2		
2017	2-Aug-17	3	303	213.6			2011.3	1356.6		
2017	2-Aug-17	4	289.2	216.2			2013.5	1779.2		
2017	2-Aug-17	5	302	223.7			2023.5	1986.2		
2017	2-Aug-17	6	583	323.3			2001.4	2079.2		
2017	2-Aug-17	7	658.5	578.4			1977.9	2367.9		
2017	2-Aug-17	8	716.1	681			1972.2	2489.2		
2017	2-Aug-17	9	709.7	596.3			1981.7	2735.2		
2017	2-Aug-17	10	675.9	321.9			1992.4	2798.4		
2017	2-Aug-17	11	770.9	357.3			1998.5	2803.1		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	2-Aug-17	12	901.6	461.5			2043.8	2803.1		
2017	2-Aug-17	13	594.2	474.4			2025.1	2802		
2017	2-Aug-17	14	451.8	402.6			2006.1	2800.8		
2017	2-Aug-17	15	450	383.3			2004.1	2800.8		
2017	2-Aug-17	16	613.8	505.5			1998.9	2816.1		
2017	2-Aug-17	17	526.4	764.3			2005.9	793.768		
2017	2-Aug-17	18	496.4	747.4			2027.7			
2017	2-Aug-17	19	485.5	736.8			2042			
2017	2-Aug-17	20	479.1	646.8			2018.2			
2017	2-Aug-17	21	352.7	533.7			2018.7			
2017	2-Aug-17	22	245.1	464.3			2019.6			
2017	2-Aug-17	23	162.1	305			2012.3			
2017	3-Aug-17	0	132.8	194.8			2003.1			
2017	3-Aug-17	1	130.6	207.2			2004.2			
2017	3-Aug-17	2	125.6	204.1			1991.4			
2017	3-Aug-17	3	118.2	201.5			1997.3			
2017	3-Aug-17	4	116	199			2015.5			
2017	3-Aug-17	5	124.3	139.4			2009.2			
2017	3-Aug-17	6	141.4	206.3			2016.2			
2017	3-Aug-17	7	120.7	202			1978.7			
2017	3-Aug-17	8	212.7	301.5			1902.5			
2017	3-Aug-17	9	317.2	497			1955.4			
2017	3-Aug-17	10	370.6	753.3			2003.6			
2017	3-Aug-17	11	396.6	938.3			2138			
2017	3-Aug-17	12	407.5	1018.7			2296.7			
2017	3-Aug-17	13	431	1137.5			2361.3			
2017	3-Aug-17	14	396.2	1238.7			2167			
2017	3-Aug-17	15	505.1	1655.9			2419.3			
2017	3-Aug-17	16	425.8	1783.4			2435.8			
2017	3-Aug-17	17	392.4	1824.3		0	2223.9			
2017	3-Aug-17	18	383.2	1585.6		0	2035.1			
2017	3-Aug-17	19	395.3	1164.3		0	2046.1			
2017	3-Aug-17	20	383.8	818		4.2	2031.9			
2017	3-Aug-17	21	355.6	627.6		0.6	2028.9			
2017	3-Aug-17	22	264.8	436.9		0.1	1950.2			
2017	3-Aug-17	23	208	353.7		0.1	801.85			
2017	4-Aug-17	0	155.3	291.1		0				
2017	4-Aug-17	1	154.1	242.7		0				
2017	4-Aug-17	2	155.3	59.346		0				
2017	4-Aug-17	3	149.8			0				
2017	4-Aug-17	4	146.1			0				
2017	4-Aug-17	5	146.5			0				
2017	4-Aug-17	6	133.2			0				
2017	4-Aug-17	7	122.1			11				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	4-Aug-17	8	114.5			0				
2017	4-Aug-17	9	167.8			2.5				
2017	4-Aug-17	10	264.6			1				
2017	4-Aug-17	11	420			0				
2017	4-Aug-17	12	641.2			0				
2017	4-Aug-17	13	733.3			0				
2017	4-Aug-17	14	735			0				
2017	4-Aug-17	15	838.8							
2017	4-Aug-17	16	908.4							
2017	4-Aug-17	17	938.8							
2017	4-Aug-17	18	763.9							
2017	4-Aug-17	19	626.7							
2017	4-Aug-17	20	393.7							
2017	4-Aug-17	21	336.1							
2017	4-Aug-17	22	261.8							
2017	4-Aug-17	23	214.7							
2017	5-Aug-17	0	167.8							
2017	5-Aug-17	1	160.2							
2017	5-Aug-17	2	139.9							
2017	5-Aug-17	3	142.7							
2017	5-Aug-17	4	131.5							
2017	5-Aug-17	5	139.5							
2017	5-Aug-17	6	144.3							
2017	5-Aug-17	7	115.6							
2017	5-Aug-17	8	120.5							
2017	5-Aug-17	9	123.9							
2017	5-Aug-17	10	122.6							
2017	5-Aug-17	11	130.3							
2017	5-Aug-17	12	162							
2017	5-Aug-17	13	229.9							
2017	5-Aug-17	14	213.1							
2017	5-Aug-17	15	273.9							
2017	5-Aug-17	16	324.3							
2017	5-Aug-17	17	325.5							
2017	5-Aug-17	18	408.3							
2017	5-Aug-17	19	361.2							
2017	5-Aug-17	20	320.1							
2017	5-Aug-17	21	226.6							
2017	5-Aug-17	22	247.7							
2017	5-Aug-17	23	206.2							
2017	6-Aug-17	0	135.8							
2017	6-Aug-17	1	138.1							
2017	6-Aug-17	2	135.3							
2017	6-Aug-17	3	138.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	6-Aug-17	4	127.9							
2017	6-Aug-17	5	134.7							
2017	6-Aug-17	6	142.8							
2017	6-Aug-17	7	123							
2017	6-Aug-17	8	121.7							
2017	6-Aug-17	9	143							
2017	6-Aug-17	10	185							
2017	6-Aug-17	11	212.8							
2017	6-Aug-17	12	281.8							
2017	6-Aug-17	13	391.9							
2017	6-Aug-17	14	472.5							
2017	6-Aug-17	15	516							
2017	6-Aug-17	16	529.3							
2017	6-Aug-17	17	551.6							
2017	6-Aug-17	18	614.1							
2017	6-Aug-17	19	658.9							
2017	6-Aug-17	20	646							
2017	6-Aug-17	21	615.9							
2017	6-Aug-17	22	437							
2017	6-Aug-17	23	386							
2017	7-Aug-17	0	298.1							
2017	7-Aug-17	1	273.5							
2017	7-Aug-17	2	234.2							
2017	7-Aug-17	3	409.9							
2017	7-Aug-17	4	871.9							
2017	7-Aug-17	5	1051.3							
2017	7-Aug-17	6	1017.2							
2017	7-Aug-17	7	704.7							
2017	7-Aug-17	8	367.5							
2017	7-Aug-17	9	317.6							
2017	7-Aug-17	10	241							
2017	7-Aug-17	11	228.1							
2017	7-Aug-17	12	246.3							
2017	7-Aug-17	13	330.4							
2017	7-Aug-17	14	614.5							
2017	7-Aug-17	15	847.8							
2017	7-Aug-17	16	42.113							
2017	7-Aug-17	17								
2017	7-Aug-17	18		0						
2017	7-Aug-17	19		0						
2017	7-Aug-17	20		0						
2017	7-Aug-17	21		0						
2017	7-Aug-17	22		0						
2017	7-Aug-17	23		0						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	8-Aug-17	0		0						
2017	8-Aug-17	1		0						
2017	8-Aug-17	2		0						
2017	8-Aug-17	3		0						
2017	8-Aug-17	4		0						
2017	8-Aug-17	5		0						
2017	8-Aug-17	6		0						
2017	8-Aug-17	7		0						
2017	8-Aug-17	8		1.2						
2017	8-Aug-17	9		1.3		0				
2017	8-Aug-17	10		27.3		0				
2017	8-Aug-17	11		45.3		0				
2017	8-Aug-17	12		164.5		0				
2017	8-Aug-17	13		181.4		0				
2017	8-Aug-17	14		293		0				
2017	8-Aug-17	15		233.7		0				
2017	8-Aug-17	16		216.9		0				
2017	8-Aug-17	17		214		0				
2017	8-Aug-17	18		172.4		0				
2017	8-Aug-17	19		132.5		0				
2017	8-Aug-17	20		216.8		0				
2017	8-Aug-17	21		239.1		0				
2017	8-Aug-17	22		199		0				
2017	8-Aug-17	23		175.2		0				
2017	9-Aug-17	0		154.4		0				
2017	9-Aug-17	1		181.1		0				
2017	9-Aug-17	2		181.5		0				
2017	9-Aug-17	3		191.9		2.7				
2017	9-Aug-17	4		241.6		67.8				
2017	9-Aug-17	5		280.1		407.8				
2017	9-Aug-17	6		494.3		607.8				
2017	9-Aug-17	7		496.4		531.5				
2017	9-Aug-17	8		282.7		630				
2017	9-Aug-17	9		201.9		641.9				
2017	9-Aug-17	10		180.7		661.1				
2017	9-Aug-17	11		190.7		560.2				
2017	9-Aug-17	12		218.1		615.8				
2017	9-Aug-17	13		302.6		595.2				
2017	9-Aug-17	14		414.4		561.7				
2017	9-Aug-17	15		551.3		659.6				
2017	9-Aug-17	16		485.4		902.1				
2017	9-Aug-17	17		407.2		985				
2017	9-Aug-17	18		285.3		675.5				
2017	9-Aug-17	19		337.8		612.9				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	9-Aug-17	20		293.1		504.1				
2017	9-Aug-17	21		161.6		521.2				
2017	9-Aug-17	22		100.8		613.6				
2017	9-Aug-17	23		74		589.4				
2017	10-Aug-17	0		55.4		492.7				
2017	10-Aug-17	1		47.4		561.8				
2017	10-Aug-17	2		50.1		514.4				
2017	10-Aug-17	3		58.7		616.4				
2017	10-Aug-17	4		98.7		564.5				
2017	10-Aug-17	5		257.1		642.7				
2017	10-Aug-17	6		543.7		941.1				
2017	10-Aug-17	7		679.1		796.9				
2017	10-Aug-17	8		452.8		972.2				
2017	10-Aug-17	9		258.8		940.8				
2017	10-Aug-17	10		262		823.3				
2017	10-Aug-17	11		219.9		1189.4				
2017	10-Aug-17	12		191.1		1131.5				
2017	10-Aug-17	13		233.1		1145.2				
2017	10-Aug-17	14		252.4		1068.1				
2017	10-Aug-17	15		444.6		1162.7				
2017	10-Aug-17	16		501.7		1091.2				
2017	10-Aug-17	17		539.5		1100.7				
2017	10-Aug-17	18		482.1		1165.7				
2017	10-Aug-17	19		462.1		1256.9				
2017	10-Aug-17	20		432		1281.5				
2017	10-Aug-17	21		402		1201.2				
2017	10-Aug-17	22		340.1		918.7				
2017	10-Aug-17	23		256.6		0				
2017	11-Aug-17	0		156.5		0				
2017	11-Aug-17	1		111.7		0				
2017	11-Aug-17	2		84.1		0				
2017	11-Aug-17	3		88.8		42				
2017	11-Aug-17	4		140.4		450.2				
2017	11-Aug-17	5		186.8		539.7				
2017	11-Aug-17	6		459.3		1244.5				
2017	11-Aug-17	7		527		1331.5				
2017	11-Aug-17	8		572.6		1116.5				
2017	11-Aug-17	9		492.3		1331.6				
2017	11-Aug-17	10		347.9		1332				
2017	11-Aug-17	11		357.7		1330.8				
2017	11-Aug-17	12		401.4		1356.9				
2017	11-Aug-17	13		349.3		1293.6				
2017	11-Aug-17	14		351.4		1342.3				
2017	11-Aug-17	15		397.1		1220.7				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	11-Aug-17	16		385.6		696				
2017	11-Aug-17	17		467.3		271.6				
2017	11-Aug-17	18		331.3		112.26				
2017	11-Aug-17	19		219						
2017	11-Aug-17	20		216.8						
2017	11-Aug-17	21		220.1						
2017	11-Aug-17	22		197.2						
2017	11-Aug-17	23		207.5						
2017	12-Aug-17	0		201.1						
2017	12-Aug-17	1		196.9						
2017	12-Aug-17	2		194.2						
2017	12-Aug-17	3		202.1						
2017	12-Aug-17	4		203.9						
2017	12-Aug-17	5		219.2						
2017	12-Aug-17	6		176.9						
2017	12-Aug-17	7		180.6						
2017	12-Aug-17	8		150.2						
2017	12-Aug-17	9		146.6						
2017	12-Aug-17	10		138.9						
2017	12-Aug-17	11		199.6						
2017	12-Aug-17	12		403						
2017	12-Aug-17	13		545.9						
2017	12-Aug-17	14		549						
2017	12-Aug-17	15		547.5						
2017	12-Aug-17	16		568.5						
2017	12-Aug-17	17		488.5						
2017	12-Aug-17	18		441.9						
2017	12-Aug-17	19		353.2						
2017	12-Aug-17	20		286.9						
2017	12-Aug-17	21		308.9						
2017	12-Aug-17	22		195						
2017	12-Aug-17	23		120.8						
2017	13-Aug-17	0		84.3						
2017	13-Aug-17	1		71.6						
2017	13-Aug-17	2		71.2						
2017	13-Aug-17	3		70.2						
2017	13-Aug-17	4		70.1						
2017	13-Aug-17	5		50						
2017	13-Aug-17	6		71						
2017	13-Aug-17	7		78.2						
2017	13-Aug-17	8		73.8						
2017	13-Aug-17	9		70.1						
2017	13-Aug-17	10		67.6						
2017	13-Aug-17	11		71.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	13-Aug-17	12		102.2						
2017	13-Aug-17	13		219.5						
2017	13-Aug-17	14		288.8						
2017	13-Aug-17	15		358.2						
2017	13-Aug-17	16		439.5						
2017	13-Aug-17	17		481.5						
2017	13-Aug-17	18		476.3						
2017	13-Aug-17	19		477.8						
2017	13-Aug-17	20		394.3						
2017	13-Aug-17	21		308.7						
2017	13-Aug-17	22		196.3						
2017	13-Aug-17	23		131.5						
2017	14-Aug-17	0		102.2						
2017	14-Aug-17	1		68.7						
2017	14-Aug-17	2		69.4						
2017	14-Aug-17	3		76.6						
2017	14-Aug-17	4		69						
2017	14-Aug-17	5		54.5						
2017	14-Aug-17	6		50.5						
2017	14-Aug-17	7		59.4						
2017	14-Aug-17	8		57.6						
2017	14-Aug-17	9		52						11.172
2017	14-Aug-17	10	0	54.3						7.1
2017	14-Aug-17	11	0	60.4						1.5
2017	14-Aug-17	12	0	90.5						0
2017	14-Aug-17	13	0	105.5						2.4
2017	14-Aug-17	14	0	124.6						0.1
2017	14-Aug-17	15	0	209.7						0
2017	14-Aug-17	16	0	263.8						0
2017	14-Aug-17	17	0	312.6						0
2017	14-Aug-17	18	0	326						0
2017	14-Aug-17	19	0	362.5						0
2017	14-Aug-17	20	0	500.7						0
2017	14-Aug-17	21	0	618.5						2.8
2017	14-Aug-17	22	6	571.2						70.9
2017	14-Aug-17	23	42.4	407.9						157.8
2017	15-Aug-17	0	150.3	257.6						187
2017	15-Aug-17	1	300.8	136.4						256.1
2017	15-Aug-17	2	331.2	90.9						406.1
2017	15-Aug-17	3	456.9	58.7						480.1
2017	15-Aug-17	4	400.2	64.9						439.1
2017	15-Aug-17	5	531.5	49						462.9
2017	15-Aug-17	6	391.3	60.8						486.6
2017	15-Aug-17	7	215.5	60.8						455

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	15-Aug-17	8	131.7	76.4						486.8
2017	15-Aug-17	9	178.1	135.1						490.3
2017	15-Aug-17	10	228.1	204.1						491.3
2017	15-Aug-17	11	591	261.3						489.2
2017	15-Aug-17	12	1161.1	571.5						461.8
2017	15-Aug-17	13	1497.6	1595.8						652.8
2017	15-Aug-17	14	1615.2	1579.2						631.8
2017	15-Aug-17	15	1860.7	1810.5						732
2017	15-Aug-17	16	1842.7	1736.5						815
2017	15-Aug-17	17	1768.9	1725.7						883.8
2017	15-Aug-17	18	1453.4	1389.6						955.1
2017	15-Aug-17	19	1036.9	1363						815.5
2017	15-Aug-17	20	921.5	1327.5						771.8
2017	15-Aug-17	21	735.6	1133.6						688.6
2017	15-Aug-17	22	431.1	789.7						447.3
2017	15-Aug-17	23	288	569.5						479.8
2017	16-Aug-17	0	201	399.8						457.7
2017	16-Aug-17	1	207.5	308.1						452.7
2017	16-Aug-17	2	210.7	195.4						457.5
2017	16-Aug-17	3	205.2	214.4						465.6
2017	16-Aug-17	4	208.6	214.6						438.4
2017	16-Aug-17	5	194.8	217.1						426
2017	16-Aug-17	6	179.2	215.4						422.3
2017	16-Aug-17	7	152.1	229.1						423.5
2017	16-Aug-17	8	200.9	290.1						420.5
2017	16-Aug-17	9	436.8	610						439.4
2017	16-Aug-17	10	577.9	587.5						419.4
2017	16-Aug-17	11	579.2	580.5						413.2
2017	16-Aug-17	12	686.4	606.8						411.3
2017	16-Aug-17	13	1212.9	738.3						399.8
2017	16-Aug-17	14	1765.2	1025.3						561.1
2017	16-Aug-17	15	1941.3	1397				0.05		785.4
2017	16-Aug-17	16	1735.8	1596.7				0.062		1051.5
2017	16-Aug-17	17	1539.2	1691.6				0.093		1091.4
2017	16-Aug-17	18	1436.7	1624.9				0.094		1056.6
2017	16-Aug-17	19	1261.5	1594.2				0.094		933.5
2017	16-Aug-17	20	1258.8	1523.8				0.096		942.6
2017	16-Aug-17	21	1048.4	1221.4				0.125		746.8
2017	16-Aug-17	22	653	860.4				0.125		568.1
2017	16-Aug-17	23	545.8	630.1				0.125		401.9
2017	17-Aug-17	0	529.8	559				0.125		410.4
2017	17-Aug-17	1	398.9	327.5				0.125		412.4
2017	17-Aug-17	2	290.6	216.5				0.125		411.8
2017	17-Aug-17	3	187.8	198.7				0.125		413.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	17-Aug-17	4	338.9	393				0.115		416.7
2017	17-Aug-17	5	872.7	633.3				0.058		742.3
2017	17-Aug-17	6	1559.9	1398.4				0.047		1036.8
2017	17-Aug-17	7	1754	1812.1				0.047		1084.6
2017	17-Aug-17	8	1732.1	1238.4				1077.757		1138.7
2017	17-Aug-17	9	1891.1	1683.8				2358.4		1167.1
2017	17-Aug-17	10	1433.6	1655.4				2773.2		1172.1
2017	17-Aug-17	11	1302	1668.2				2789.6		1102.3
2017	17-Aug-17	12	1581.6	1725.6				2799		1099
2017	17-Aug-17	13	1503.9	1681.7				2599.4		1082.6
2017	17-Aug-17	14	1608	1679.6				2434		1104.1
2017	17-Aug-17	15	1693	1724.1				1194.3		1101.3
2017	17-Aug-17	16	1711.8	1809				738		1084.2
2017	17-Aug-17	17	1539.7	1527.3				548.3		1060.3
2017	17-Aug-17	18	1318.8	1385.8				540.9		940
2017	17-Aug-17	19	1707.6	1756.3				484.84		935.5
2017	17-Aug-17	20	1894.9	1453.1						961.8
2017	17-Aug-17	21	1672.4	1362.9						846.8
2017	17-Aug-17	22	1334.2	814.2						743.6
2017	17-Aug-17	23	937.3	643.1						648.6
2017	18-Aug-17	0	581.6	485.7						460.7
2017	18-Aug-17	1	406.5	364.4						395.6
2017	18-Aug-17	2	276.2	237						404.4
2017	18-Aug-17	3	310.7	238.4						412
2017	18-Aug-17	4	317.7	240.6						407.5
2017	18-Aug-17	5	397.1	246.4						406.3
2017	18-Aug-17	6	562.6	244.3						398.4
2017	18-Aug-17	7	695.8	362.6						413.5
2017	18-Aug-17	8	602.2	448						403.5
2017	18-Aug-17	9	816.6	570.2						409.8
2017	18-Aug-17	10	959.5	797.3						416.3
2017	18-Aug-17	11	1420.1	1276.4						471.1
2017	18-Aug-17	12	1380.7	1613.3						742.8
2017	18-Aug-17	13	1533.6	1753.2						986.4
2017	18-Aug-17	14	1643.5	1496.3						1075.7
2017	18-Aug-17	15	1565.5	1820.4						1096.2
2017	18-Aug-17	16	1610.1	1801.7						1082.9
2017	18-Aug-17	17	1541.6	1771.8						1061.5
2017	18-Aug-17	18	1210	1664.6						952.9
2017	18-Aug-17	19	1278.1	1647.3						889.9
2017	18-Aug-17	20	1303.5	1672.7						886
2017	18-Aug-17	21	1126.3	1429.4						811
2017	18-Aug-17	22	962.7	941.3						731.5
2017	18-Aug-17	23	626.8	776.1						540.9



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	19-Aug-17	0	471.4	610.8						471.2
2017	19-Aug-17	1	300	364.8						485.2
2017	19-Aug-17	2	184.9	181.2						481.2
2017	19-Aug-17	3	212.3	182.4						496.6
2017	19-Aug-17	4	255.3	195.2						451.3
2017	19-Aug-17	5	251.6	141						392.9
2017	19-Aug-17	6	264.4	189.8						387.6
2017	19-Aug-17	7	262.6	177						419.5
2017	19-Aug-17	8	272.3	174.8						409.4
2017	19-Aug-17	9	401.8	263.6						415.3
2017	19-Aug-17	10	524.4	508.7						533.4
2017	19-Aug-17	11	663.2	736.6						681.1
2017	19-Aug-17	12	708	949.2						761.5
2017	19-Aug-17	13	771.4	1372.1						704.2
2017	19-Aug-17	14	1074.8	1508.8						1000.1
2017	19-Aug-17	15	1528.2	1669.3						1120.6
2017	19-Aug-17	16	1523.6	1793.1						1106.1
2017	19-Aug-17	17	1429.4	1812.2						951
2017	19-Aug-17	18	1282.7	1547.2						811.7
2017	19-Aug-17	19	1457.1	1684.5						813.8
2017	19-Aug-17	20	1342.3	1658.3						798.4
2017	19-Aug-17	21	881.9	1007.7						685.9
2017	19-Aug-17	22	467.8	571.1						459.2
2017	19-Aug-17	23	272.3	304.6						469.3
2017	20-Aug-17	0	198.7	233.3						470.7
2017	20-Aug-17	1	216.7	216.4						467.4
2017	20-Aug-17	2	208.2	206.5						532
2017	20-Aug-17	3	231.5	211						536.3
2017	20-Aug-17	4	213.6	205.6						505
2017	20-Aug-17	5	196.9	185						478
2017	20-Aug-17	6	203.1	187.9						415.5
2017	20-Aug-17	7	182.7	193.7						423.3
2017	20-Aug-17	8	291	264						414.6
2017	20-Aug-17	9	488	451.7						459.8
2017	20-Aug-17	10	595	599.9						486.1
2017	20-Aug-17	11	779.4	728.4						556
2017	20-Aug-17	12	1234	946						872.9
2017	20-Aug-17	13	1397.5	1080.8						838.3
2017	20-Aug-17	14	1571	1271						957.1
2017	20-Aug-17	15	1572.1	1681.2						1147.3
2017	20-Aug-17	16	1634.8	1790.3						1155.1
2017	20-Aug-17	17	1520	1776.9						1149.6
2017	20-Aug-17	18	1495.7	1484.5						1051.6
2017	20-Aug-17	19	1484.7	1362						990.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	20-Aug-17	20	1513.7	1745.9						1039.3
2017	20-Aug-17	21	1252.9	1468.8						902.7
2017	20-Aug-17	22	800	826.5						738.5
2017	20-Aug-17	23	476.4	553.5						507.4
2017	21-Aug-17	0	256.3	355						425.2
2017	21-Aug-17	1	262.8	207.4						465.3
2017	21-Aug-17	2	246	191.9						448.1
2017	21-Aug-17	3	241.9	184.5						457.2
2017	21-Aug-17	4	377.5	288.3						474.8
2017	21-Aug-17	5	990.4	515.6						487.1
2017	21-Aug-17	6	1452.4	1299.5						495.6
2017	21-Aug-17	7	1495.6	1465.1						493.4
2017	21-Aug-17	8	1509.6	1500						509.6
2017	21-Aug-17	9	1494.7	1293.1						719
2017	21-Aug-17	10	1406.9	1254.3						952.1
2017	21-Aug-17	11	1512.5	1308.7						1179.8
2017	21-Aug-17	12	1516	1355.3						1193.1
2017	21-Aug-17	13	1332.8	1172						1201.2
2017	21-Aug-17	14	940.9	1030.9						1205.9
2017	21-Aug-17	15	1080.7	1295.7						1195.1
2017	21-Aug-17	16	1307	1376.2						1209.6
2017	21-Aug-17	17	1075.6	1343.8						1201
2017	21-Aug-17	18	822.8	1240.4						1191.5
2017	21-Aug-17	19	886.5	1251.2						1129.5
2017	21-Aug-17	20	838.1	851						1047.2
2017	21-Aug-17	21	649.4	683.4						809.8
2017	21-Aug-17	22	405.7	453.3						762.8
2017	21-Aug-17	23	265.4	311.6						487.6
2017	22-Aug-17	0	210.5	194.9						461.3
2017	22-Aug-17	1	236.1	213.2						455.2
2017	22-Aug-17	2	227.7	184						464.6
2017	22-Aug-17	3	231.6	204.6						512.5
2017	22-Aug-17	4	225.3	203.3						858.8
2017	22-Aug-17	5	255.3	198.2						1226.9
2017	22-Aug-17	6	326.4	186.7						1351.7
2017	22-Aug-17	7	469.5	384.7						1358.2
2017	22-Aug-17	8	544.6	550.5						1333.6
2017	22-Aug-17	9	623.7	594.3						1390.2
2017	22-Aug-17	10	621.7	660.3						1363.3
2017	22-Aug-17	11	649.1	781.7						1266.6
2017	22-Aug-17	12	649.3	950.4						1094.9
2017	22-Aug-17	13	651.8	1032.1						940.1
2017	22-Aug-17	14	631.9	1103.4						1131.8
2017	22-Aug-17	15	656.9	1184.8						977.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	22-Aug-17	16	643.7	1276.8						918
2017	22-Aug-17	17	632.7	1155.3						920.1
2017	22-Aug-17	18	641	1162.8						884.2
2017	22-Aug-17	19	643.3	1180.3						837.4
2017	22-Aug-17	20	598.6	1035.6						704.6
2017	22-Aug-17	21	468.6	866.7						445
2017	22-Aug-17	22	292	677.1						392.1
2017	22-Aug-17	23	42.36	434						363.5
2017	23-Aug-17	0		269.8						354.1
2017	23-Aug-17	1		183						361.4
2017	23-Aug-17	2		175.2						388.7
2017	23-Aug-17	3		197.8						435.5
2017	23-Aug-17	4		195						388.3
2017	23-Aug-17	5		144.9						424.4
2017	23-Aug-17	6		207.7					0	512.9
2017	23-Aug-17	7		226.7					0	477
2017	23-Aug-17	8		210.4					3.4	471.6
2017	23-Aug-17	9		236					21.3	456
2017	23-Aug-17	10		432.6					20.9	453.4
2017	23-Aug-17	11		509.6					20.7	449.5
2017	23-Aug-17	12		476.1					31.4	465
2017	23-Aug-17	13		588.9					53.7	234.692
2017	23-Aug-17	14		635.3					47.1	
2017	23-Aug-17	15		791.5					38.8	
2017	23-Aug-17	16		1118.4					38	
2017	23-Aug-17	17		1395.9					43.3	
2017	23-Aug-17	18		1006.7					79.5	
2017	23-Aug-17	19		863.3					91.7	
2017	23-Aug-17	20		785.2					94.9	
2017	23-Aug-17	21		582.8					98.6	
2017	23-Aug-17	22		340.5					96.7	
2017	23-Aug-17	23		228					106.1	
2017	24-Aug-17	0		220.5					159.2	
2017	24-Aug-17	1		221.1					194.1	
2017	24-Aug-17	2		215.4					312	
2017	24-Aug-17	3		215					545.8	
2017	24-Aug-17	4		214.3					670.8	
2017	24-Aug-17	5		298.6					947.5	
2017	24-Aug-17	6		496.5					1193.8	
2017	24-Aug-17	7		671.2					1259.2	
2017	24-Aug-17	8		693.6					1235.2	
2017	24-Aug-17	9		644					1271.5	
2017	24-Aug-17	10		567.9					1260.3	
2017	24-Aug-17	11		598.1					1257.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	24-Aug-17	12		557.4					1270.4	
2017	24-Aug-17	13		600.2					1262	
2017	24-Aug-17	14		637.1					1192.6	
2017	24-Aug-17	15		577.1					1178	
2017	24-Aug-17	16		552.1					1245.3	
2017	24-Aug-17	17		555.8					1274	
2017	24-Aug-17	18		536.2					1280.8	
2017	24-Aug-17	19		586					496	
2017	24-Aug-17	20		580.5					152.775	
2017	24-Aug-17	21		569.9						
2017	24-Aug-17	22		572.2						
2017	24-Aug-17	23		537.3						
2017	25-Aug-17	0		384.2						
2017	25-Aug-17	1		252.1						
2017	25-Aug-17	2		186.6						
2017	25-Aug-17	3		206.2						
2017	25-Aug-17	4		219.5						
2017	25-Aug-17	5		298.3						
2017	25-Aug-17	6		722.8						
2017	25-Aug-17	7		798.5						
2017	25-Aug-17	8		824.7						
2017	25-Aug-17	9		766.6						
2017	25-Aug-17	10		800						
2017	25-Aug-17	11		913.3						
2017	25-Aug-17	12		655.6						
2017	25-Aug-17	13		611.7						
2017	25-Aug-17	14		604						
2017	25-Aug-17	15		571.4						
2017	25-Aug-17	16		627.8						
2017	25-Aug-17	17		838.1						
2017	25-Aug-17	18		663.5						
2017	25-Aug-17	19		607.9						
2017	25-Aug-17	20		572						
2017	25-Aug-17	21		570.3						
2017	25-Aug-17	22		432						
2017	25-Aug-17	23		291.1						
2017	26-Aug-17	0		222.5						
2017	26-Aug-17	1		223.9						
2017	26-Aug-17	2		214.6						
2017	26-Aug-17	3		209.6						
2017	26-Aug-17	4		181.8						
2017	26-Aug-17	5		323.8						
2017	26-Aug-17	6		838.2						
2017	26-Aug-17	7		1581.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	26-Aug-17	8		1624						
2017	26-Aug-17	9		1546.4						
2017	26-Aug-17	10		1597.9						
2017	26-Aug-17	11		1576.2						
2017	26-Aug-17	12		1576.7						
2017	26-Aug-17	13		1403.2						
2017	26-Aug-17	14		1129.1						
2017	26-Aug-17	15		743.1						
2017	26-Aug-17	16		613.6						
2017	26-Aug-17	17		595						
2017	26-Aug-17	18		479						
2017	26-Aug-17	19		469						
2017	26-Aug-17	20		430.5						
2017	26-Aug-17	21		368.6						
2017	26-Aug-17	22		276.1						
2017	26-Aug-17	23		247.3						
2017	27-Aug-17	0		191.8						
2017	27-Aug-17	1		202.1						
2017	27-Aug-17	2		186.9						
2017	27-Aug-17	3		192.2						
2017	27-Aug-17	4		320.7						
2017	27-Aug-17	5		707.3						
2017	27-Aug-17	6		1491.7						
2017	27-Aug-17	7		1670.2						
2017	27-Aug-17	8		1746.5						
2017	27-Aug-17	9		1664.1						
2017	27-Aug-17	10		1564.7						
2017	27-Aug-17	11		1602.4						
2017	27-Aug-17	12		1558.6						
2017	27-Aug-17	13		1348.9						
2017	27-Aug-17	14		1096						
2017	27-Aug-17	15		859.4						
2017	27-Aug-17	16		795.9						
2017	27-Aug-17	17		986						
2017	27-Aug-17	18		1141						
2017	27-Aug-17	19		1085.5						
2017	27-Aug-17	20		803						
2017	27-Aug-17	21		522.9						
2017	27-Aug-17	22		372.5						
2017	27-Aug-17	23		299.8						
2017	28-Aug-17	0		198.2						
2017	28-Aug-17	1		193						
2017	28-Aug-17	2		183.9						
2017	28-Aug-17	3		186.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	28-Aug-17	4		196.2		0				
2017	28-Aug-17	5		382.1		0				
2017	28-Aug-17	6		833		0				
2017	28-Aug-17	7		1599.3		0	0			
2017	28-Aug-17	8		1636.5		0	0			
2017	28-Aug-17	9		789.9		0	0			
2017	28-Aug-17	10		650.8		0	0			
2017	28-Aug-17	11		639		0	0			
2017	28-Aug-17	12		610.7		0	25.1			
2017	28-Aug-17	13		512.6		0	211.7			
2017	28-Aug-17	14		462		0	234.5			
2017	28-Aug-17	15		461.5		0	248.4			
2017	28-Aug-17	16		394.4		0	197.8			
2017	28-Aug-17	17		329.8		0	202			
2017	28-Aug-17	18		273.6		0	232.6			
2017	28-Aug-17	19		249.2		0	272.3			
2017	28-Aug-17	20		257.5		0	320.9			
2017	28-Aug-17	21		217.2		0	410.2			
2017	28-Aug-17	22		176.7		0	698.2			
2017	28-Aug-17	23		129		0	1210.9			
2017	29-Aug-17	0		154.1		0	1709.5			
2017	29-Aug-17	1		198.1		0	1585.2			
2017	29-Aug-17	2		203.3		0	1520			
2017	29-Aug-17	3		212			2003.4			
2017	29-Aug-17	4		213.9			2315.4			
2017	29-Aug-17	5		246.5			2601.5			
2017	29-Aug-17	6		643.8			3048.4			
2017	29-Aug-17	7		632.6			3250.1			
2017	29-Aug-17	8		467.4			3300.9			
2017	29-Aug-17	9		359.1			3328			
2017	29-Aug-17	10		322.5			3325			
2017	29-Aug-17	11		272.8			3321.5			
2017	29-Aug-17	12		252.5			3276.7			
2017	29-Aug-17	13		255.9			3271.7			
2017	29-Aug-17	14		252.8			3253.2			
2017	29-Aug-17	15		275.3			3182.8			
2017	29-Aug-17	16		303.4			3175.2			
2017	29-Aug-17	17		366			3152			
2017	29-Aug-17	18		339.5			2967.3			
2017	29-Aug-17	19		284.2			2734.2			
2017	29-Aug-17	20		231.4			2480.7			
2017	29-Aug-17	21		134.9		0	2135.2			
2017	29-Aug-17	22		79.6		0	1923.4			
2017	29-Aug-17	23		82.6		0	321.024			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	30-Aug-17	0		153.3		0				
2017	30-Aug-17	1		190.8		0				
2017	30-Aug-17	2		185.4		0				
2017	30-Aug-17	3		186.7		0				
2017	30-Aug-17	4		305.2		0				
2017	30-Aug-17	5		416.8		0				
2017	30-Aug-17	6		552.9		0				
2017	30-Aug-17	7		616.1		0				
2017	30-Aug-17	8		1329.7		0				
2017	30-Aug-17	9		1511.7		0				
2017	30-Aug-17	10		1404.8		0				
2017	30-Aug-17	11		1416.6		0				
2017	30-Aug-17	12		1443.1		0				
2017	30-Aug-17	13		1463.4		0				
2017	30-Aug-17	14		1501.8						
2017	30-Aug-17	15		1458.8						
2017	30-Aug-17	16		1492.8						
2017	30-Aug-17	17		1540.8						
2017	30-Aug-17	18		1412.2						
2017	30-Aug-17	19		1444.5						
2017	30-Aug-17	20		1014.6						
2017	30-Aug-17	21		687						
2017	30-Aug-17	22		396.2						
2017	30-Aug-17	23		306						
2017	31-Aug-17	0		204.8						
2017	31-Aug-17	1		170.2						
2017	31-Aug-17	2		143.7						
2017	31-Aug-17	3		177.4						
2017	31-Aug-17	4		177						
2017	31-Aug-17	5		123.5						
2017	31-Aug-17	6		167.5						
2017	31-Aug-17	7		179.6						
2017	31-Aug-17	8		177						
2017	31-Aug-17	9		177.7						
2017	31-Aug-17	10		170.7						
2017	31-Aug-17	11		202.8						
2017	31-Aug-17	12		234.6						
2017	31-Aug-17	13		324.7						
2017	31-Aug-17	14		378.8						
2017	31-Aug-17	15		444.8						
2017	31-Aug-17	16		500.6						
2017	31-Aug-17	17		447.7						
2017	31-Aug-17	18		297.9						
2017	31-Aug-17	19		350.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	31-Aug-17	20		475.1						
2017	31-Aug-17	21		459.5						
2017	31-Aug-17	22		455.3						
2017	31-Aug-17	23		413.8						
2017	1-Sep-17	0		324.1						
2017	1-Sep-17	1		170.4						
2017	1-Sep-17	2		177.576						
2017	1-Sep-17	3								
2017	1-Sep-17	4								
2017	1-Sep-17	5								
2017	1-Sep-17	6								
2017	1-Sep-17	7								
2017	1-Sep-17	8								
2017	1-Sep-17	9								
2017	1-Sep-17	10								
2017	1-Sep-17	11								
2017	1-Sep-17	12								
2017	1-Sep-17	13								
2017	1-Sep-17	14								
2017	1-Sep-17	15								
2017	1-Sep-17	16								
2017	1-Sep-17	17								
2017	1-Sep-17	18								
2017	1-Sep-17	19								
2017	1-Sep-17	20								
2017	1-Sep-17	21								
2017	1-Sep-17	22								
2017	1-Sep-17	23								
2017	2-Sep-17	0								
2017	2-Sep-17	1								
2017	2-Sep-17	2								
2017	2-Sep-17	3								
2017	2-Sep-17	4								
2017	2-Sep-17	5								
2017	2-Sep-17	6								
2017	2-Sep-17	7								
2017	2-Sep-17	8								
2017	2-Sep-17	9								
2017	2-Sep-17	10								
2017	2-Sep-17	11		0						
2017	2-Sep-17	12		0						
2017	2-Sep-17	13		0						
2017	2-Sep-17	14		0						
2017	2-Sep-17	15		0						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	2-Sep-17	16		0						
2017	2-Sep-17	17		0						
2017	2-Sep-17	18		0						
2017	2-Sep-17	19		0						
2017	2-Sep-17	20		0						
2017	2-Sep-17	21		38.6						
2017	2-Sep-17	22		141.7						
2017	2-Sep-17	23		411.8						
2017	3-Sep-17	0		270.7						
2017	3-Sep-17	1		328.1						
2017	3-Sep-17	2		264.5						
2017	3-Sep-17	3		186						
2017	3-Sep-17	4		188.6						
2017	3-Sep-17	5		192.7						
2017	3-Sep-17	6		183.7						
2017	3-Sep-17	7		178.4						
2017	3-Sep-17	8		161.8						
2017	3-Sep-17	9		152.2						
2017	3-Sep-17	10		141.7						
2017	3-Sep-17	11		132.3						
2017	3-Sep-17	12		132.4						
2017	3-Sep-17	13		132.6						
2017	3-Sep-17	14		129.9						
2017	3-Sep-17	15		128						
2017	3-Sep-17	16		159.4						
2017	3-Sep-17	17		219.1						
2017	3-Sep-17	18		277.9						
2017	3-Sep-17	19		321.2						
2017	3-Sep-17	20		250.7						
2017	3-Sep-17	21		251.7						
2017	3-Sep-17	22		545.8						
2017	3-Sep-17	23		1525.2						
2017	4-Sep-17	0		1545.8						
2017	4-Sep-17	1		1273.3						
2017	4-Sep-17	2		743.3						
2017	4-Sep-17	3		507.2						
2017	4-Sep-17	4		403.1						
2017	4-Sep-17	5		264.1						
2017	4-Sep-17	6		363						
2017	4-Sep-17	7		427.5						
2017	4-Sep-17	8		758.1						
2017	4-Sep-17	9		1487						
2017	4-Sep-17	10		1500.8						
2017	4-Sep-17	11		1286.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	4-Sep-17	12		1066.2						
2017	4-Sep-17	13		929.2						
2017	4-Sep-17	14		890.3						
2017	4-Sep-17	15		968						
2017	4-Sep-17	16		993.8						
2017	4-Sep-17	17		989.8						
2017	4-Sep-17	18		975.7						
2017	4-Sep-17	19		1015.8						
2017	4-Sep-17	20		1000						
2017	4-Sep-17	21		1043.7						
2017	4-Sep-17	22		1031.2						
2017	4-Sep-17	23		1107.6						
2017	5-Sep-17	0		1103.3						
2017	5-Sep-17	1		1107.4						
2017	5-Sep-17	2		1096.8						
2017	5-Sep-17	3		1171.1						
2017	5-Sep-17	4		1167.7						
2017	5-Sep-17	5		1003						
2017	5-Sep-17	6		583.3						
2017	5-Sep-17	7		469.4						
2017	5-Sep-17	8		442.6						
2017	5-Sep-17	9		445.4						
2017	5-Sep-17	10		429.9						
2017	5-Sep-17	11		422.1						
2017	5-Sep-17	12		311.6						
2017	5-Sep-17	13		347.2						
2017	5-Sep-17	14		612.6						
2017	5-Sep-17	15		704.4						
2017	5-Sep-17	16		631.5						
2017	5-Sep-17	17		506.1						
2017	5-Sep-17	18		331						
2017	5-Sep-17	19		277.6						
2017	5-Sep-17	20		187.8						
2017	5-Sep-17	21		178.3						
2017	5-Sep-17	22		167.6						
2017	5-Sep-17	23		157						
2017	6-Sep-17	0		165.5						
2017	6-Sep-17	1		169.7						
2017	6-Sep-17	2		160.5						
2017	6-Sep-17	3		164.5						
2017	6-Sep-17	4		169.8						
2017	6-Sep-17	5		120.1						
2017	6-Sep-17	6		160.7						
2017	6-Sep-17	7		167.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	6-Sep-17	8		158.7						
2017	6-Sep-17	9		150.9						
2017	6-Sep-17	10		144.6						
2017	6-Sep-17	11		147.2						
2017	6-Sep-17	12		149.9						
2017	6-Sep-17	13		152.8						
2017	6-Sep-17	14		146.7						
2017	6-Sep-17	15		152.4						
2017	6-Sep-17	16		151.5						
2017	6-Sep-17	17		149.6						
2017	6-Sep-17	18		146.4						
2017	6-Sep-17	19		146.8						
2017	6-Sep-17	20		142.4						
2017	6-Sep-17	21		152.3						
2017	6-Sep-17	22		145.6						
2017	6-Sep-17	23		151.4						
2017	7-Sep-17	0		153						
2017	7-Sep-17	1		151.5						
2017	7-Sep-17	2		128.6						
2017	7-Sep-17	3		138.3						
2017	7-Sep-17	4		152.3						
2017	7-Sep-17	5		211.8						
2017	7-Sep-17	6		344.1						
2017	7-Sep-17	7		269.4						
2017	7-Sep-17	8		192.1						
2017	7-Sep-17	9		162.9						
2017	7-Sep-17	10		151.3						
2017	7-Sep-17	11		147.6						
2017	7-Sep-17	12		148.6						
2017	7-Sep-17	13		142.1						
2017	7-Sep-17	14		138						
2017	7-Sep-17	15		127.9						
2017	7-Sep-17	16		140.8						
2017	7-Sep-17	17		140.2						
2017	7-Sep-17	18		138.1						
2017	7-Sep-17	19		145.1						
2017	7-Sep-17	20		142.7						
2017	7-Sep-17	21		141.6						
2017	7-Sep-17	22		142.9						
2017	7-Sep-17	23		157.7						
2017	8-Sep-17	0		174.9						
2017	8-Sep-17	1		104.236						
2017	8-Sep-17	2								
2017	8-Sep-17	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	8-Sep-17	4								
2017	8-Sep-17	5								
2017	8-Sep-17	6								
2017	8-Sep-17	7								
2017	8-Sep-17	8								
2017	8-Sep-17	9								
2017	8-Sep-17	10								
2017	8-Sep-17	11								
2017	8-Sep-17	12								
2017	8-Sep-17	13								
2017	8-Sep-17	14								
2017	8-Sep-17	15								
2017	8-Sep-17	16								
2017	8-Sep-17	17								
2017	8-Sep-17	18								
2017	8-Sep-17	19								
2017	8-Sep-17	20								
2017	8-Sep-17	21								
2017	8-Sep-17	22								
2017	8-Sep-17	23								
2017	9-Sep-17	0								
2017	9-Sep-17	1								
2017	9-Sep-17	2								
2017	9-Sep-17	3								
2017	9-Sep-17	4								
2017	9-Sep-17	5								
2017	9-Sep-17	6								
2017	9-Sep-17	7								
2017	9-Sep-17	8								
2017	9-Sep-17	9								
2017	9-Sep-17	10								
2017	9-Sep-17	11								
2017	9-Sep-17	12								
2017	9-Sep-17	13								
2017	9-Sep-17	14								
2017	9-Sep-17	15								
2017	9-Sep-17	16								
2017	9-Sep-17	17								
2017	9-Sep-17	18								
2017	9-Sep-17	19								
2017	9-Sep-17	20								
2017	9-Sep-17	21								
2017	9-Sep-17	22	0							
2017	9-Sep-17	23	0							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	10-Sep-17	0	0							
2017	10-Sep-17	1	0							
2017	10-Sep-17	2	0							
2017	10-Sep-17	3	0							
2017	10-Sep-17	4	0							
2017	10-Sep-17	5	0							
2017	10-Sep-17	6	0							
2017	10-Sep-17	7	0							
2017	10-Sep-17	8	0							
2017	10-Sep-17	9	0							
2017	10-Sep-17	10	0							
2017	10-Sep-17	11	0							
2017	10-Sep-17	12	0							
2017	10-Sep-17	13	0							
2017	10-Sep-17	14	0							
2017	10-Sep-17	15	0							
2017	10-Sep-17	16	0							
2017	10-Sep-17	17	0							
2017	10-Sep-17	18	0							
2017	10-Sep-17	19	0							
2017	10-Sep-17	20	0							
2017	10-Sep-17	21	0							
2017	10-Sep-17	22	0							
2017	10-Sep-17	23	9.2							
2017	11-Sep-17	0	15.6							
2017	11-Sep-17	1	65							
2017	11-Sep-17	2	110.1							
2017	11-Sep-17	3	473.9							
2017	11-Sep-17	4	567.9							
2017	11-Sep-17	5	293							
2017	11-Sep-17	6	259.6							
2017	11-Sep-17	7	176.8							
2017	11-Sep-17	8	194.1							
2017	11-Sep-17	9	371.2							
2017	11-Sep-17	10	554.5							
2017	11-Sep-17	11	607							
2017	11-Sep-17	12	546.6							
2017	11-Sep-17	13	443.6							
2017	11-Sep-17	14	338.8							
2017	11-Sep-17	15	297.8							
2017	11-Sep-17	16	288.7							
2017	11-Sep-17	17	281.3							
2017	11-Sep-17	18	263.6							
2017	11-Sep-17	19	289.7							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	11-Sep-17	20	232.9							
2017	11-Sep-17	21	235.8							
2017	11-Sep-17	22	193.2							
2017	11-Sep-17	23	216.3							
2017	12-Sep-17	0	203.7							
2017	12-Sep-17	1	217							
2017	12-Sep-17	2	190.7							
2017	12-Sep-17	3	200							
2017	12-Sep-17	4	190.3							
2017	12-Sep-17	5	211.7							
2017	12-Sep-17	6	228.2							
2017	12-Sep-17	7	245.7							
2017	12-Sep-17	8	224.4							
2017	12-Sep-17	9	279.6							
2017	12-Sep-17	10	222.9							
2017	12-Sep-17	11	258.7							
2017	12-Sep-17	12	302.1							
2017	12-Sep-17	13	284.4							
2017	12-Sep-17	14	275.7							
2017	12-Sep-17	15	343.1							
2017	12-Sep-17	16	628.4							
2017	12-Sep-17	17	477.8							
2017	12-Sep-17	18	676.5							
2017	12-Sep-17	19	833.3							
2017	12-Sep-17	20	633.5							
2017	12-Sep-17	21	476							
2017	12-Sep-17	22	313.2							
2017	12-Sep-17	23	202.2							
2017	13-Sep-17	0	170.3							
2017	13-Sep-17	1	179.4							
2017	13-Sep-17	2	169.9							
2017	13-Sep-17	3	181.6							
2017	13-Sep-17	4	177.5							
2017	13-Sep-17	5	239.7							
2017	13-Sep-17	6	575							
2017	13-Sep-17	7	442.9							
2017	13-Sep-17	8	497							
2017	13-Sep-17	9	1056							
2017	13-Sep-17	10	1733.2							
2017	13-Sep-17	11	1603.7							
2017	13-Sep-17	12	1557.5							
2017	13-Sep-17	13	1396.5							
2017	13-Sep-17	14	954.2							
2017	13-Sep-17	15	854.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	13-Sep-17	16	974.8							
2017	13-Sep-17	17	867.8							
2017	13-Sep-17	18	951.4							
2017	13-Sep-17	19	906.8							
2017	13-Sep-17	20	740.8							
2017	13-Sep-17	21	449.2							
2017	13-Sep-17	22	453.7							
2017	13-Sep-17	23	483.7							
2017	14-Sep-17	0	302.1							
2017	14-Sep-17	1	285.8							
2017	14-Sep-17	2	262.6							
2017	14-Sep-17	3	275.1							
2017	14-Sep-17	4	262.2							
2017	14-Sep-17	5	331.6							
2017	14-Sep-17	6	396.2							
2017	14-Sep-17	7	383.6							
2017	14-Sep-17	8	517.3							
2017	14-Sep-17	9	575.7							
2017	14-Sep-17	10	1196.6							
2017	14-Sep-17	11	1636.8							
2017	14-Sep-17	12	1966.6							
2017	14-Sep-17	13	1798.1							
2017	14-Sep-17	14	1763.1							
2017	14-Sep-17	15	1726.6							
2017	14-Sep-17	16	1798.1							
2017	14-Sep-17	17	1790.4							
2017	14-Sep-17	18	1801.1							
2017	14-Sep-17	19	1840.3							
2017	14-Sep-17	20	1850.5							
2017	14-Sep-17	21	1850.4							
2017	14-Sep-17	22	1510.6							
2017	14-Sep-17	23	1172.2							
2017	15-Sep-17	0	742							
2017	15-Sep-17	1	500.3							
2017	15-Sep-17	2	282.8							
2017	15-Sep-17	3	273.9							
2017	15-Sep-17	4	260.2							
2017	15-Sep-17	5	417.4							
2017	15-Sep-17	6	405.9							
2017	15-Sep-17	7	440.6							
2017	15-Sep-17	8	421.4							
2017	15-Sep-17	9	558.8							
2017	15-Sep-17	10	992.3							
2017	15-Sep-17	11	1732.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	15-Sep-17	12	1861.8							
2017	15-Sep-17	13	1742.4							
2017	15-Sep-17	14	1772.4							
2017	15-Sep-17	15	1759.7							
2017	15-Sep-17	16	1735.1							
2017	15-Sep-17	17	1771							
2017	15-Sep-17	18	1757.5							
2017	15-Sep-17	19	1791							
2017	15-Sep-17	20	1820.9							
2017	15-Sep-17	21	1994.3							
2017	15-Sep-17	22	1590.7							
2017	15-Sep-17	23	1301.9							
2017	16-Sep-17	0	744.6							
2017	16-Sep-17	1	512.8							
2017	16-Sep-17	2	331.6							
2017	16-Sep-17	3	310.1							
2017	16-Sep-17	4	281.8							
2017	16-Sep-17	5	284.6							
2017	16-Sep-17	6	274.5							
2017	16-Sep-17	7	282.3							
2017	16-Sep-17	8	306.1							
2017	16-Sep-17	9	482							
2017	16-Sep-17	10	1129.8							
2017	16-Sep-17	11	1761.5							
2017	16-Sep-17	12	1783.8							
2017	16-Sep-17	13	1637.5							
2017	16-Sep-17	14	1714.6							
2017	16-Sep-17	15	1647.1							
2017	16-Sep-17	16	1683.7							
2017	16-Sep-17	17	1636							
2017	16-Sep-17	18	1702							
2017	16-Sep-17	19	1694.8							
2017	16-Sep-17	20	1626.3							
2017	16-Sep-17	21	938							
2017	16-Sep-17	22	442.6							
2017	16-Sep-17	23	431.5							
2017	17-Sep-17	0	305.8							
2017	17-Sep-17	1	279.3							
2017	17-Sep-17	2	274.2	1.2						
2017	17-Sep-17	3	276.2	2.5						
2017	17-Sep-17	4	261.2	2.5						
2017	17-Sep-17	5	268	2.4						
2017	17-Sep-17	6	267.7	4.1						
2017	17-Sep-17	7	252.2	3.3						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	17-Sep-17	8	285.3	3.3						
2017	17-Sep-17	9	407.4	3.3						
2017	17-Sep-17	10	1018.7	3.3						
2017	17-Sep-17	11	1809	3.3						
2017	17-Sep-17	12	2111	3.3						
2017	17-Sep-17	13	2290.5	3.4						
2017	17-Sep-17	14	2272.5	3.8						
2017	17-Sep-17	15	2316.9	3.8						
2017	17-Sep-17	16	2337	2.9						
2017	17-Sep-17	17	2341.5	3.8						
2017	17-Sep-17	18	2403.2	2.9						
2017	17-Sep-17	19	2398.2	9.3						
2017	17-Sep-17	20	2412	39.1						
2017	17-Sep-17	21	1553.8	56.5						
2017	17-Sep-17	22	878.2	175.9						
2017	17-Sep-17	23	489.6	296.5						
2017	18-Sep-17	0	359.6	455.6						
2017	18-Sep-17	1	351.1	371.5						
2017	18-Sep-17	2	353.7	545.7						
2017	18-Sep-17	3	722.6	916.2						
2017	18-Sep-17	4	2004.3	1202.3						
2017	18-Sep-17	5	2405.6	1225.4						
2017	18-Sep-17	6	2477.6	1465.4						
2017	18-Sep-17	7	2607.2	2594.7						
2017	18-Sep-17	8	2084.6	3345.9						
2017	18-Sep-17	9	2017.6	2166.8						
2017	18-Sep-17	10	2512.7	2706.2						
2017	18-Sep-17	11	2539.6	3130.8						
2017	18-Sep-17	12	2567.3	3021.3						
2017	18-Sep-17	13	2458.6	1814.2						
2017	18-Sep-17	14	2015.6	1454.2						
2017	18-Sep-17	15	2469.7	1388.1						0
2017	18-Sep-17	16	2444.3	1338.8					0	0
2017	18-Sep-17	17	2442.3	1232.5					0	1
2017	18-Sep-17	18	2376.6	1381.4					0	0
2017	18-Sep-17	19	2464.9	1444.2					0	0
2017	18-Sep-17	20	2245.9	1329.4					4.3	0
2017	18-Sep-17	21	1540.9	1127.3					25	0
2017	18-Sep-17	22	997.3	982.4					41.9	0
2017	18-Sep-17	23	678.7	738.4					51.8	0
2017	19-Sep-17	0	506.9	534.4					55.5	0
2017	19-Sep-17	1	444.7	400.9					54.6	0
2017	19-Sep-17	2	366.6	273.5					55	0
2017	19-Sep-17	3	377.5	277.6					61.1	23.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	19-Sep-17	4	554.7	447.8					62.2	101.2
2017	19-Sep-17	5	1499.2	1310.8					61.4	102.9
2017	19-Sep-17	6	2284.3	2228.4					61.9	207.4
2017	19-Sep-17	7	2377.1	2029.6					76.8	405.3
2017	19-Sep-17	8	2444.1	1709.3					174.9	430.3
2017	19-Sep-17	9	2474.5	1116.5					174.1	450.7
2017	19-Sep-17	10	2485.7	1512.6					187.4	358.1
2017	19-Sep-17	11	2396.2	1082.6					185.1	454.7
2017	19-Sep-17	12	2420.1	1078.1					263.2	438.1
2017	19-Sep-17	13	2441.1	1636.4					353.1	604.5
2017	19-Sep-17	14	2487.7	2297.7					497.7	782
2017	19-Sep-17	15	2487.5	2133					876.5	971.7
2017	19-Sep-17	16	2488.4	2192					958.3	1055.8
2017	19-Sep-17	17	2400.2	2267					1122.5	1030.1
2017	19-Sep-17	18	2279.8	2245.8					1143	1004.9
2017	19-Sep-17	19	2310.5	2298.6					1191.7	1002.3
2017	19-Sep-17	20	2238.9	2139.2					1083.8	953.2
2017	19-Sep-17	21	1640.8	1825.1					976.3	784.2
2017	19-Sep-17	22	1141.5	1460.4					992.4	594.6
2017	19-Sep-17	23	702.5	1069.3					1011.3	460.8
2017	20-Sep-17	0	478.3	756.7					998.8	451.5
2017	20-Sep-17	1	361.9	521.7					996.3	441.2
2017	20-Sep-17	2	311.1	418.5					959.8	439.5
2017	20-Sep-17	3	307.8	330.2					972.3	447.6
2017	20-Sep-17	4	481.9	407.7					1021.8	452
2017	20-Sep-17	5	673.5	918.4					1041.5	468
2017	20-Sep-17	6	909.7	1640.5					1028.1	427
2017	20-Sep-17	7	2936.5	1856.7					1029.6	425
2017	20-Sep-17	8	1925.6	1855.3					1041.9	404.1
2017	20-Sep-17	9	1238.7	1797.8					965.7	412.4
2017	20-Sep-17	10	1080.4	1448.3					950.1	384.2
2017	20-Sep-17	11	2006.3	1544					1053.9	585.1
2017	20-Sep-17	12	2107.1	1669.1					1177.9	953.1
2017	20-Sep-17	13	2249.7	1840		0			1183.7	1076.2
2017	20-Sep-17	14	2176.2	1848.4		0			1203.8	1080.8
2017	20-Sep-17	15	2358.5	1998.8		0			1227	1082.7
2017	20-Sep-17	16	2242.5	1994.5		0			1235.7	1078.2
2017	20-Sep-17	17	2167.8	2048.3		0			1230.4	1075.7
2017	20-Sep-17	18	2244.2	2067		0			1232.4	1049.9
2017	20-Sep-17	19	2059.6	2102.8		0	0		1205	983.2
2017	20-Sep-17	20	1820.7	1521.5		0	0		1101.9	811.1
2017	20-Sep-17	21	1441.3	1151		0	0		930.3	628.6
2017	20-Sep-17	22	1042.8	859.9		0	36.1		943	533
2017	20-Sep-17	23	938.9	772.2		0	229		940	406.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	21-Sep-17	0	886.1	740.3		0	270.3		952.9	393.3
2017	21-Sep-17	1	877.7	727.1		0	270.7		952	388.9
2017	21-Sep-17	2	872.3	726.9		0	258		936	413.5
2017	21-Sep-17	3	874.6	702		0	210		953.5	429
2017	21-Sep-17	4	848.3	648.1		0	177.8		949.1	411.2
2017	21-Sep-17	5	1087.6	738.4		0	261.6		963.8	421.4
2017	21-Sep-17	6	2076.1	1296.5		0	382.4		970.7	418.9
2017	21-Sep-17	7	2323.6	1124		0	833.3		798.4	403.3
2017	21-Sep-17	8	2228.5	795.4		0	1404.4		796.8	456
2017	21-Sep-17	9	2229.5	836		0	2009.8		724.4	416
2017	21-Sep-17	10	2161.7	781		0	2204.9		661.8	435
2017	21-Sep-17	11	2256.6	764			2573.3		667.7	475.3
2017	21-Sep-17	12	2147.8	831.1			2905.6		1011.4	745.6
2017	21-Sep-17	13	2328.8	837.4			3224.5		1303.8	980.4
2017	21-Sep-17	14	1814.2	809.4			3358.8		1121.5	1067.7
2017	21-Sep-17	15	1049.3	831.3			3389.5		1211.1	1014.1
2017	21-Sep-17	16	1051.4	776.4			3394.2		1224	1058.1
2017	21-Sep-17	17	1065.2	789.3			3386.2		1184.3	1028.7
2017	21-Sep-17	18	1075.4	765.4			3393.3		1222.3	1020.4
2017	21-Sep-17	19	1120.9	761.8			3379.4		1174.4	1003.4
2017	21-Sep-17	20	1084.7	782.7		0	3310.9		1108.4	982.2
2017	21-Sep-17	21	902.4	617.1		0	3156.8		918.2	848.9
2017	21-Sep-17	22	512.7	486.6		0	2933.4		756.9	709.1
2017	21-Sep-17	23	332	337.1		0	2641.8		739.8	518.9
2017	22-Sep-17	0	240	257.3		0	2324.6		689	396.4
2017	22-Sep-17	1	230.6	202.8		0	2123.7		636.3	390
2017	22-Sep-17	2	215.3	164.1		0	2085.2		658.5	397.4
2017	22-Sep-17	3	280.8	188.5		0	2090		655.5	411.7
2017	22-Sep-17	4	451.3	365.3		0	2266.5		839.7	540
2017	22-Sep-17	5	812.6	424.1		0	2800.6		1134.4	855.2
2017	22-Sep-17	6	1011.5	656.2		0	3224.8		1232	1067.1
2017	22-Sep-17	7	1041.8	720.1		0	3344.4	42.1	1226.7	1059
2017	22-Sep-17	8	971.8	717.4		0	3173.8	54.7	966.8	784.6
2017	22-Sep-17	9	743.8	501.5		0	2944.3	137.6	698.5	503.9
2017	22-Sep-17	10	733	457.6		0	2626.4	270.4	686.5	401.2
2017	22-Sep-17	11	758	540.3		0.1	2357.6	446.8	686	410.5
2017	22-Sep-17	12	810	633.6		108.3	2325.7	635.7	713	515.5
2017	22-Sep-17	13	924	635.3		445.4	2442	738.3	716.5	533.4
2017	22-Sep-17	14	767.5	491.6		430.5	2621.7	822.4	955.8	555.3
2017	22-Sep-17	15	658.7	454		422.5	2566.7	893	999.3	466.7
2017	22-Sep-17	16	665.7	453.5		384.5	2619.9	889.8	1029.8	489.6
2017	22-Sep-17	17	657.7	440.3		416.3	2296.7	891.1	958.6	403.9
2017	22-Sep-17	18	648	449.5		442.6	2117.4	878.5	951.3	383.7
2017	22-Sep-17	19	596.3	435		435.5	2084.3	864.7	944.6	381.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	22-Sep-17	20	348.7	302.3		405.4	2087.4	842.7	938.5	381.5
2017	22-Sep-17	21	344.5	248.8		499.3	2078.9	791.2	952.3	384.8
2017	22-Sep-17	22	281.5	200.4		490.6	2078.4	207.69	951.4	388.1
2017	22-Sep-17	23	160.9	131.4		481.7	2077.9		893.4	383.5
2017	23-Sep-17	0	104.5	86.8		515.4	2074.3		895.8	394.4
2017	23-Sep-17	1	120	88.6		533.1	2080		913.2	405
2017	23-Sep-17	2	112.9	90.2		520.6	2077.7		934.3	421.6
2017	23-Sep-17	3	117.2	95.9		537.6	2073.3		905.9	417.2
2017	23-Sep-17	4	109	88.7		510.7	2084.2		925.7	410.3
2017	23-Sep-17	5	109	85.7		531.8	2076.4		873.3	407
2017	23-Sep-17	6	125.5	87.5		450	2093.2		701.4	403.9
2017	23-Sep-17	7	120	94.4		423.2	2096.6		643	404.4
2017	23-Sep-17	8	183.5	149.1		314.18	2071.3		659	450.9
2017	23-Sep-17	9	296.1	232.8			2062.5		743.9	463.1
2017	23-Sep-17	10	361.3	270.5			2079.2		832.9	456
2017	23-Sep-17	11	464.8	325.4			2157.1		841.7	476.1
2017	23-Sep-17	12	468.4	415.1			2178.7		760.3	442.2
2017	23-Sep-17	13	586.8	587.7			2259.9		822.1	473.6
2017	23-Sep-17	14	704.2	611.6			2478		1033.3	571.1
2017	23-Sep-17	15	887.5	692.9			2860		1194	760.9
2017	23-Sep-17	16	806	621.9			3161.1		1197.6	943
2017	23-Sep-17	17	655.7	506.7			3100.2		962	777
2017	23-Sep-17	18	466.9	383.5			2912.3		953	558
2017	23-Sep-17	19	399.4	324.7			2606.2		936.5	409.2
2017	23-Sep-17	20	461.3	335.7			2390.5		932.5	411.1
2017	23-Sep-17	21	406.5	290.3			2157.6		912	422.1
2017	23-Sep-17	22	282.3	217.4			2138.6		903.7	428.9
2017	23-Sep-17	23	189.1	162.7			2142.2		921.6	429
2017	24-Sep-17	0	122	115.5			2156.6		926.1	446.7
2017	24-Sep-17	1	136.9	112.1			2144		1014	422.6
2017	24-Sep-17	2	130.1	108.2			2168.2		1039.2	413.7
2017	24-Sep-17	3	131.9	111.4			2184.2		1022.2	434.5
2017	24-Sep-17	4	122.7	108.4			2084.6		989	441.3
2017	24-Sep-17	5	126.5	77.9			2077.9		1041.9	466.2
2017	24-Sep-17	6	137	110.6			2089.4		1043	475.4
2017	24-Sep-17	7	130.2	118.3			2082.9		1018.8	471.7
2017	24-Sep-17	8	149.2	124.9			2076		1021.4	435.6
2017	24-Sep-17	9	285.1	178.7			2074.9		1015.5	433.7
2017	24-Sep-17	10	330.1	271			2090.9		970.5	423.5
2017	24-Sep-17	11	461.6	340.6			2088.1		939.5	424.1
2017	24-Sep-17	12	635.2	388.2			2162.8		934.9	421.8
2017	24-Sep-17	13	777.7	431.3			2169		937.9	463.5
2017	24-Sep-17	14	826.7	531.8			2431.3		941.8	606.7
2017	24-Sep-17	15	851.7	613.1			2761.4		912.6	803.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	24-Sep-17	16	951.6	708.9			2977.8		929.8	936.1
2017	24-Sep-17	17	824.6	595.9			3226.1		926.3	926.3
2017	24-Sep-17	18	831.5	673.8			3285		911.5	920.5
2017	24-Sep-17	19	833.5	683			3420.6		883.3	956
2017	24-Sep-17	20	775.9	580			3453.4		882.4	923.9
2017	24-Sep-17	21	469.9	381.4			3281.1		876.2	733.6
2017	24-Sep-17	22	246.6	253.6			3000.1	0.011	879.8	482
2017	24-Sep-17	23	176	179.9		0	2668.7	0.072	901.3	401.5
2017	25-Sep-17	0	114.4	116.3		0	2278.8	0.104	921.9	438.1
2017	25-Sep-17	1	119.5	93.9		0	2086.6	0.112	963.1	461.6
2017	25-Sep-17	2	115.9	102		0	2065.6	0.085	965	469.6
2017	25-Sep-17	3	170.3	127.3		0	2082.6	0.036	936.8	453.1
2017	25-Sep-17	4	356.5	283.9		97.9	2068.1	0.031	882.5	410.9
2017	25-Sep-17	5	880.2	605.8		331	2062.1	0.031	893.4	405.6
2017	25-Sep-17	6	1000.6	748.2		571.8	2052.7	0.031	898.5	398.2
2017	25-Sep-17	7	819	662.6		573.1	2029.6	0.031	899	402.5
2017	25-Sep-17	8	665.4	517.3		564.5	2039.6	94.2	874.1	418
2017	25-Sep-17	9	637.3	528.6		567.4	2009.7	551.8	851.3	423
2017	25-Sep-17	10	621.2	555.8		532.6	2044.5	600.8	887.6	429.3
2017	25-Sep-17	11	756.8	626.9		518.5	2157.3	661.2	896.4	650.2
2017	25-Sep-17	12	787.8	636.8		587.2	2481.2	784.3	908.8	840.2
2017	25-Sep-17	13	894.2	682.1		669	2700.5	879.1	923.9	965.4
2017	25-Sep-17	14	968.6	717.5		988.4	2971	1612.6	1032.9	1036
2017	25-Sep-17	15	973.8	739.6		1310	3142.6	1648.1	1051.7	1024.3
2017	25-Sep-17	16	958.6	811.1		1308.6	3212.9	1468.2	944.4	1112.8
2017	25-Sep-17	17	907.4	652.9		863.2	3211.6	931.8	953.1	1036.4
2017	25-Sep-17	18	832.2	587.1		725	3133.9	788.532	953.9	949.5
2017	25-Sep-17	19	771.4	574.4		444.7	3122.6		963.2	1007
2017	25-Sep-17	20	520.2	464.4		565.1	2943		960.1	799.2
2017	25-Sep-17	21	349.6	298.1		521.9	2717.1		959.1	535.6
2017	25-Sep-17	22	191.1	183.5		559.8	2468.1		947.2	458.5
2017	25-Sep-17	23	130.5	114.1		565.7	2220.1		952.5	469.1
2017	26-Sep-17	0	120	111.8		545.3	2036.1		942.7	461.8
2017	26-Sep-17	1	129.5	107.4		524.8	2001.1	0.058	943.4	462.2
2017	26-Sep-17	2	124.2	107.2		540.3	1940.8	0.089	928.7	462
2017	26-Sep-17	3	131.6	113.9		522.3	1953.6	0.033	934	456
2017	26-Sep-17	4	122.2	199.1		519.8	2002.5	0.031	950.4	462.3
2017	26-Sep-17	5	138.9	450.1		574.4	1990.8	0.031	995.8	488.9
2017	26-Sep-17	6	162.7	826.1		510	1998.6	0.031	1003.9	499.9
2017	26-Sep-17	7	253.9	806.4		577.6	1993.6	0.031	985.8	461.1
2017	26-Sep-17	8	337.5	852.4		521.6	2005.3	58.479	987.5	477.1
2017	26-Sep-17	9	413.8	848		607.1	1980.2	259.5	969.7	418.2
2017	26-Sep-17	10	659.2	877.6		610.9	1985.7	400	986	440.1
2017	26-Sep-17	11	789.4	878.9		512.9	2026.8	521.8	1002.1	447.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	26-Sep-17	12	774.9	863		525.7	2046.1	611.3	1044.4	490.1
2017	26-Sep-17	13	834.2	868.7		657.3	2412.6	722.4	995.1	794.5
2017	26-Sep-17	14	890.7	842.6		605.9	2820.5	1025.3	1017.9	1021.1
2017	26-Sep-17	15	1087.8	815.8		724.3	3128.9	1309.5	1148.5	1072.6
2017	26-Sep-17	16	1001	915.2		1231.1	3291	1066.9	1037.2	1103.5
2017	26-Sep-17	17	932.4	759.9		1121.8	3293.1	868.5	984.5	1068.9
2017	26-Sep-17	18	860	929.7		690.2	3208.5	877.9	939.2	1057.1
2017	26-Sep-17	19	840.6	907.4		560.4	3274.4	878.5	910.1	1077.1
2017	26-Sep-17	20	729.8	809.8		480.8	3137.2	590.304	894.9	963.4
2017	26-Sep-17	21	436.5	554.1		554.8	2919.1		786.7	623
2017	26-Sep-17	22	282	385.9		525.7	2656		402.9	448.3
2017	26-Sep-17	23	194.9	236.8		291.5	2539.4		121.888	445.1
2017	27-Sep-17	0	120.5	148.2			2292.7			442.8
2017	27-Sep-17	1	120.8	112.9			2084.8	0.062		438
2017	27-Sep-17	2	109.6	99.6			2008.7	0.102		434.3
2017	27-Sep-17	3	114	98.4			2006.8	0.031		512.4
2017	27-Sep-17	4	161.6	148.8			2012.2	0.031		804.4
2017	27-Sep-17	5	380.8	325.3			2008.4	0.031		1029.1
2017	27-Sep-17	6	509.8	433.7			2015.1	0.031		1254.8
2017	27-Sep-17	7	448.5	924.1			1993.1	0.031		1260.4
2017	27-Sep-17	8	444.3	986.4			1994.2	0.031		1210.2
2017	27-Sep-17	9	532.8	1213			2006.1	216.364		1190.8
2017	27-Sep-17	10	656.7	1464.5			2065.7	845.8		1166.6
2017	27-Sep-17	11	730.5	1814.4			2040	1028.1		1140.7
2017	27-Sep-17	12	835.4	1782.8			2294	1037.8		1041.2
2017	27-Sep-17	13	710.2	1743.3			2143.4	876		1036.5
2017	27-Sep-17	14	693.3	1560.4			2095.8	887.3		1066
2017	27-Sep-17	15	833.1	1186.5			2496.8	964		1072.9
2017	27-Sep-17	16	936.4	926.3			2856.8	891.1		1083.1
2017	27-Sep-17	17	810.7	948.3			3147.4	881		1057.8
2017	27-Sep-17	18	847.5	929.8			3122.6	891.1		1048.1
2017	27-Sep-17	19	758.5	967			3055.2	709.745		1069.1
2017	27-Sep-17	20	686.7	904.1			2948.3			946.4
2017	27-Sep-17	21	433.1	691.7			2745.5			690.3
2017	27-Sep-17	22	362.7	511.5			2560.9			512.9
2017	27-Sep-17	23	290.6	338.5			1834.9			489.3
2017	28-Sep-17	0	198.6	228.5			140.778			484.7
2017	28-Sep-17	1	151.3	158.4						503.1
2017	28-Sep-17	2	114.5	123.3						502.7
2017	28-Sep-17	3	115.8	124.7						643.6
2017	28-Sep-17	4	188.3	191						874.4
2017	28-Sep-17	5	531	265.6						1073.7
2017	28-Sep-17	6	614	544.3						1215.9
2017	28-Sep-17	7	629.9	662.2						1240.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	28-Sep-17	8	830.3	702.2						1210.4
2017	28-Sep-17	9	1118.9	974.2						1199.9
2017	28-Sep-17	10	1755.5	1375.3						1142
2017	28-Sep-17	11	1816.9	1672.4						1066.7
2017	28-Sep-17	12	1913.1	1648.3						1026.6
2017	28-Sep-17	13	2007.9	1764.5						1064.1
2017	28-Sep-17	14	2141.7	1629						1086.9
2017	28-Sep-17	15	2233.3	1760						1027.6
2017	28-Sep-17	16	2136.3	1799.9						604.4
2017	28-Sep-17	17	2113.5	1824.1						220
2017	28-Sep-17	18	2133.9	1587.1						26.838
2017	28-Sep-17	19	2161.5	1822.4						
2017	28-Sep-17	20	2054.4	1809.5						
2017	28-Sep-17	21	1482.4	1597.6						
2017	28-Sep-17	22	1503.9	1289.1						
2017	28-Sep-17	23	1332.4	1471						
2017	29-Sep-17	0	1547	1954.3						
2017	29-Sep-17	1	1727.5	2008.9						
2017	29-Sep-17	2	1922.3	2079.2						
2017	29-Sep-17	3	1941.5	2076.6						
2017	29-Sep-17	4	1919.9	2095.5						
2017	29-Sep-17	5	1964.9	2058.7						
2017	29-Sep-17	6	686.6	2072.3						
2017	29-Sep-17	7	1899.8	1888.4						
2017	29-Sep-17	8	1867.7	1589.3						
2017	29-Sep-17	9	1734.3	1823.7						
2017	29-Sep-17	10	1807.8	1541.4						
2017	29-Sep-17	11	1881	1547.7						
2017	29-Sep-17	12	1829.6	1580.7						
2017	29-Sep-17	13	1906.1	1383.2						
2017	29-Sep-17	14	1893.5	1581.2						
2017	29-Sep-17	15	1920.8	1628						
2017	29-Sep-17	16	1922.1	1524.2						
2017	29-Sep-17	17	1892.3	1697.4						
2017	29-Sep-17	18	1373.2	1619.7						
2017	29-Sep-17	19	974	1454.8						
2017	29-Sep-17	20	868.3	1065.3						
2017	29-Sep-17	21	470.4	996.8						
2017	29-Sep-17	22	173.5	782						
2017	29-Sep-17	23	57.645	682						
2017	30-Sep-17	0		846.5						
2017	30-Sep-17	1		659.4						
2017	30-Sep-17	2		533.3						
2017	30-Sep-17	3		439.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	30-Sep-17	4		375.7						
2017	30-Sep-17	5		182.8						
2017	30-Sep-17	6		237.8						
2017	30-Sep-17	7		267.6						
2017	30-Sep-17	8		313.5						
2017	30-Sep-17	9		719.2						
2017	30-Sep-17	10		1518						
2017	30-Sep-17	11		1654.2						
2017	30-Sep-17	12		1684.8						
2017	30-Sep-17	13		1715.3						
2017	30-Sep-17	14		1540.7						
2017	30-Sep-17	15		1315.8						
2017	30-Sep-17	16		1091.3						
2017	30-Sep-17	17		972.4						
2017	30-Sep-17	18		859.1						
2017	30-Sep-17	19		805						
2017	30-Sep-17	20		557.1						
2017	30-Sep-17	21		405.2						
2017	30-Sep-17	22		298.2						
2017	30-Sep-17	23		293.5						
2017	1-Oct-17	0		246.4						
2017	1-Oct-17	1		239.4						
2017	1-Oct-17	2		227						
2017	1-Oct-17	3		202.1						
2017	1-Oct-17	4		205.2						
2017	1-Oct-17	5		214.2						
2017	1-Oct-17	6		215.8						
2017	1-Oct-17	7		223.8						
2017	1-Oct-17	8		219.7						
2017	1-Oct-17	9		220.2						
2017	1-Oct-17	10		214.1						
2017	1-Oct-17	11		211.2						
2017	1-Oct-17	12		197.2						
2017	1-Oct-17	13		249.7						
2017	1-Oct-17	14		255.9						
2017	1-Oct-17	15		426.7						
2017	1-Oct-17	16		527.2						
2017	1-Oct-17	17		487.1						
2017	1-Oct-17	18		564.3						
2017	1-Oct-17	19		598.5						
2017	1-Oct-17	20		512.4						
2017	1-Oct-17	21		440						
2017	1-Oct-17	22		325.9						
2017	1-Oct-17	23		273.4						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	2-Oct-17	0		249.3						
2017	2-Oct-17	1		255.5						
2017	2-Oct-17	2		313.4						
2017	2-Oct-17	3		656.1						
2017	2-Oct-17	4		672.2						
2017	2-Oct-17	5		486.9						
2017	2-Oct-17	6		652.8						
2017	2-Oct-17	7		725.3						
2017	2-Oct-17	8		1018.3						
2017	2-Oct-17	9		1206.7						
2017	2-Oct-17	10		1355.9						
2017	2-Oct-17	11		1632						
2017	2-Oct-17	12		1396.7						
2017	2-Oct-17	13		1585.3						
2017	2-Oct-17	14		1320.2						
2017	2-Oct-17	15		1230.9						
2017	2-Oct-17	16		1455						
2017	2-Oct-17	17		1359						
2017	2-Oct-17	18		1542.6						
2017	2-Oct-17	19		1528						
2017	2-Oct-17	20		1501.2						
2017	2-Oct-17	21		1242.4						
2017	2-Oct-17	22		926.5						
2017	2-Oct-17	23		714.2						
2017	3-Oct-17	0		492.9						
2017	3-Oct-17	1		338.4						
2017	3-Oct-17	2		268.1						
2017	3-Oct-17	3		239.6						
2017	3-Oct-17	4		235.9						
2017	3-Oct-17	5		357.4						
2017	3-Oct-17	6		774.3						
2017	3-Oct-17	7		913.3						
2017	3-Oct-17	8		969.4						
2017	3-Oct-17	9		1100.5						
2017	3-Oct-17	10		1035.3						
2017	3-Oct-17	11		1156.9						
2017	3-Oct-17	12		1024.8						
2017	3-Oct-17	13		1095.8						
2017	3-Oct-17	14		1255.7						
2017	3-Oct-17	15		1535.9						
2017	3-Oct-17	16		1694.5						
2017	3-Oct-17	17		1713.5						
2017	3-Oct-17	18		1768.9						
2017	3-Oct-17	19		1788.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	3-Oct-17	20		1647.6						
2017	3-Oct-17	21		1321.7						
2017	3-Oct-17	22		767.9						
2017	3-Oct-17	23		473.1						
2017	4-Oct-17	0		297.4						
2017	4-Oct-17	1		235.4						
2017	4-Oct-17	2		228.6						
2017	4-Oct-17	3		229.2						
2017	4-Oct-17	4		261.5						
2017	4-Oct-17	5		252.2						
2017	4-Oct-17	6		537.7						
2017	4-Oct-17	7		699.1						
2017	4-Oct-17	8		686						
2017	4-Oct-17	9		789.5						
2017	4-Oct-17	10		905.9						
2017	4-Oct-17	11		1056.3						
2017	4-Oct-17	12		1139.9						
2017	4-Oct-17	13		1237.2						
2017	4-Oct-17	14		1552						
2017	4-Oct-17	15		2040.5						
2017	4-Oct-17	16		2133.7						
2017	4-Oct-17	17		2165.9						
2017	4-Oct-17	18		1593.7						
2017	4-Oct-17	19		1731.3						
2017	4-Oct-17	20		2001.5						
2017	4-Oct-17	21		1754.5						
2017	4-Oct-17	22		1398.8						
2017	4-Oct-17	23		1669.5						
2017	5-Oct-17	0		1323.4						
2017	5-Oct-17	1		798.6						
2017	5-Oct-17	2		435.7						
2017	5-Oct-17	3		288.2						
2017	5-Oct-17	4		278.5						
2017	5-Oct-17	5		513.4						
2017	5-Oct-17	6		789.4						
2017	5-Oct-17	7		702.7						
2017	5-Oct-17	8		689.7						
2017	5-Oct-17	9		847						
2017	5-Oct-17	10		740.3						
2017	5-Oct-17	11		849.1						
2017	5-Oct-17	12		888						
2017	5-Oct-17	13		926.4						
2017	5-Oct-17	14		1076.2						
2017	5-Oct-17	15		1495.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	5-Oct-17	16		1763.2						
2017	5-Oct-17	17		1776						
2017	5-Oct-17	18		1826.7						
2017	5-Oct-17	19		2318.1						
2017	5-Oct-17	20		2138.5						
2017	5-Oct-17	21		1561.7						
2017	5-Oct-17	22		1015.3						
2017	5-Oct-17	23		645.3						
2017	6-Oct-17	0		370.9						
2017	6-Oct-17	1		321						
2017	6-Oct-17	2		292.6						
2017	6-Oct-17	3		292.6						
2017	6-Oct-17	4		334.7						
2017	6-Oct-17	5		495.2						
2017	6-Oct-17	6		1022.2						
2017	6-Oct-17	7		1316.3						
2017	6-Oct-17	8		1608.9						
2017	6-Oct-17	9		1527.5						
2017	6-Oct-17	10		1316						
2017	6-Oct-17	11		1707.8						
2017	6-Oct-17	12		2256						
2017	6-Oct-17	13		2497						
2017	6-Oct-17	14		1847						
2017	6-Oct-17	15		2587.4						
2017	6-Oct-17	16		2573.5						
2017	6-Oct-17	17		2541.5						
2017	6-Oct-17	18		1850.6						
2017	6-Oct-17	19		2602.5						
2017	6-Oct-17	20		2556.4						
2017	6-Oct-17	21		1729.4						
2017	6-Oct-17	22		1719						
2017	6-Oct-17	23		1682.8						
2017	7-Oct-17	0		1440.2						
2017	7-Oct-17	1		1171						
2017	7-Oct-17	2		758.2						
2017	7-Oct-17	3		477.4						
2017	7-Oct-17	4		284.7						
2017	7-Oct-17	5		365.5						
2017	7-Oct-17	6		440.6						
2017	7-Oct-17	7		519.2						
2017	7-Oct-17	8		728.5						
2017	7-Oct-17	9		817.2						
2017	7-Oct-17	10		898.3						
2017	7-Oct-17	11		873.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Oct-17	12		1000.5						
2017	7-Oct-17	13		1231.2						
2017	7-Oct-17	14		1620						
2017	7-Oct-17	15		2231.2						
2017	7-Oct-17	16		2502.8						
2017	7-Oct-17	17		1670.6						
2017	7-Oct-17	18		1631.8						
2017	7-Oct-17	19		2084						
2017	7-Oct-17	20		2279.3						
2017	7-Oct-17	21		2525.5						
2017	7-Oct-17	22		1724.9						
2017	7-Oct-17	23		1554.2						
2017	8-Oct-17	0		1092.3						
2017	8-Oct-17	1		791.8						
2017	8-Oct-17	2		459						
2017	8-Oct-17	3		338.4						
2017	8-Oct-17	4		323.2						
2017	8-Oct-17	5		263.5						
2017	8-Oct-17	6		338.8						
2017	8-Oct-17	7		345.3						
2017	8-Oct-17	8		388.1						
2017	8-Oct-17	9		546.7						
2017	8-Oct-17	10		782.6						
2017	8-Oct-17	11		1413.7						
2017	8-Oct-17	12		2169.5						
2017	8-Oct-17	13		1567.2						
2017	8-Oct-17	14		1293.4						
2017	8-Oct-17	15		1298.4						
2017	8-Oct-17	16		1601						
2017	8-Oct-17	17		2348.5						
2017	8-Oct-17	18		1794.4						
2017	8-Oct-17	19		2591.1						
2017	8-Oct-17	20		2417.7						
2017	8-Oct-17	21		2093.1						
2017	8-Oct-17	22		1443.4						
2017	8-Oct-17	23		1132.3						
2017	9-Oct-17	0		838.4						
2017	9-Oct-17	1		559.2						
2017	9-Oct-17	2		380.5						
2017	9-Oct-17	3		467.8						
2017	9-Oct-17	4		746.1						
2017	9-Oct-17	5		974.8						
2017	9-Oct-17	6		1319.2						
2017	9-Oct-17	7		1662.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	9-Oct-17	8		2665.5						
2017	9-Oct-17	9		2644						
2017	9-Oct-17	10		1697.6						
2017	9-Oct-17	11		2311.9						
2017	9-Oct-17	12		2375.8						
2017	9-Oct-17	13		2633.4						
2017	9-Oct-17	14		1676.1						
2017	9-Oct-17	15		2737.9						
2017	9-Oct-17	16		2707.4						
2017	9-Oct-17	17		2878.1						
2017	9-Oct-17	18		1832.6						
2017	9-Oct-17	19		2557.6						
2017	9-Oct-17	20		1508.8						
2017	9-Oct-17	21		1243.5						
2017	9-Oct-17	22		854.8						
2017	9-Oct-17	23		694.2						
2017	10-Oct-17	0		821.1						
2017	10-Oct-17	1		678.4						
2017	10-Oct-17	2		469.2						
2017	10-Oct-17	3		370.8						
2017	10-Oct-17	4		664.6						
2017	10-Oct-17	5		452.8						
2017	10-Oct-17	6		1051.7						
2017	10-Oct-17	7		1008.9						
2017	10-Oct-17	8		1021.8						
2017	10-Oct-17	9		902.4						
2017	10-Oct-17	10		1613.2						
2017	10-Oct-17	11		1789.4						
2017	10-Oct-17	12		2624.4						
2017	10-Oct-17	13		2474.6						
2017	10-Oct-17	14		1834.1						
2017	10-Oct-17	15		2649.9						
2017	10-Oct-17	16		2694						
2017	10-Oct-17	17		2563.7						
2017	10-Oct-17	18		1834.7						
2017	10-Oct-17	19		2761.7						
2017	10-Oct-17	20		2638.3						
2017	10-Oct-17	21		2163.1						
2017	10-Oct-17	22		1300.9						
2017	10-Oct-17	23		1289.4						
2017	11-Oct-17	0		1142.2						
2017	11-Oct-17	1		693.1						
2017	11-Oct-17	2		462.2						
2017	11-Oct-17	3		475.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	11-Oct-17	4		773.5						
2017	11-Oct-17	5		1139.7						
2017	11-Oct-17	6		1226.8						
2017	11-Oct-17	7		1265.9						
2017	11-Oct-17	8		1542.9						
2017	11-Oct-17	9		1933						
2017	11-Oct-17	10		1573.4						
2017	11-Oct-17	11		2125.7						
2017	11-Oct-17	12		2483.2						
2017	11-Oct-17	13		2344.4						
2017	11-Oct-17	14		1740.1						
2017	11-Oct-17	15		1727.8						
2017	11-Oct-17	16		2405.5						
2017	11-Oct-17	17		1990.5						
2017	11-Oct-17	18		1748.5						
2017	11-Oct-17	19		2082.2						
2017	11-Oct-17	20		1438.3						
2017	11-Oct-17	21		879.6						
2017	11-Oct-17	22		641.9						
2017	11-Oct-17	23		461.4						
2017	12-Oct-17	0		366.8						
2017	12-Oct-17	1		405.3						
2017	12-Oct-17	2		329.3						
2017	12-Oct-17	3		289.5						
2017	12-Oct-17	4		386.1						
2017	12-Oct-17	5		370.7						
2017	12-Oct-17	6		651.9						
2017	12-Oct-17	7		1100.7						
2017	12-Oct-17	8		1286.8						
2017	12-Oct-17	9		1132.9						
2017	12-Oct-17	10		1268.8						
2017	12-Oct-17	11		1490.2						
2017	12-Oct-17	12		1532.1						
2017	12-Oct-17	13		1639.7						
2017	12-Oct-17	14		1419						
2017	12-Oct-17	15		1396.4						
2017	12-Oct-17	16		1533.3						
2017	12-Oct-17	17		1512.9						
2017	12-Oct-17	18		1251.6						
2017	12-Oct-17	19		1528.7						
2017	12-Oct-17	20		1369.3						
2017	12-Oct-17	21		969.8						
2017	12-Oct-17	22		670.2						
2017	12-Oct-17	23		469.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	13-Oct-17	0		323						
2017	13-Oct-17	1		380.9						
2017	13-Oct-17	2		326.5						
2017	13-Oct-17	3		304.7						
2017	13-Oct-17	4		341.2						
2017	13-Oct-17	5		840.1						
2017	13-Oct-17	6		1173.3						
2017	13-Oct-17	7		1350.5						
2017	13-Oct-17	8		1401.7						
2017	13-Oct-17	9		1647.7						
2017	13-Oct-17	10		1700.3						
2017	13-Oct-17	11		1727.5						
2017	13-Oct-17	12		2106.6						
2017	13-Oct-17	13		2404.8						
2017	13-Oct-17	14		1832.8						
2017	13-Oct-17	15		2571.3						
2017	13-Oct-17	16		1779.5						
2017	13-Oct-17	17		2265						
2017	13-Oct-17	18		1699.6						
2017	13-Oct-17	19		1741						
2017	13-Oct-17	20		1675.1						
2017	13-Oct-17	21		1399.2						
2017	13-Oct-17	22		1244.5						
2017	13-Oct-17	23		817.6						
2017	14-Oct-17	0		494.7						
2017	14-Oct-17	1		430.8						
2017	14-Oct-17	2		204.4						
2017	14-Oct-17	3		3.3						
2017	14-Oct-17	4		3.4						
2017	14-Oct-17	5		3.3						
2017	14-Oct-17	6		4.6						
2017	14-Oct-17	7		27.8						
2017	14-Oct-17	8		35.7						
2017	14-Oct-17	9		142.2						
2017	14-Oct-17	10		304.9						
2017	14-Oct-17	11		299.1						
2017	14-Oct-17	12		190.6						
2017	14-Oct-17	13		344.7						
2017	14-Oct-17	14		761.6						
2017	14-Oct-17	15		1207.4						
2017	14-Oct-17	16		1013.9						
2017	14-Oct-17	17		506						
2017	14-Oct-17	18		478.8						
2017	14-Oct-17	19		547.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	14-Oct-17	20		727.1						
2017	14-Oct-17	21		575.3						
2017	14-Oct-17	22		504.2						
2017	14-Oct-17	23		450.7						
2017	15-Oct-17	0		313.4						
2017	15-Oct-17	1		243.8						
2017	15-Oct-17	2		225.3						
2017	15-Oct-17	3		253.6						
2017	15-Oct-17	4		225						
2017	15-Oct-17	5		246.6						
2017	15-Oct-17	6		240.8						
2017	15-Oct-17	7		255.7						
2017	15-Oct-17	8		271.7						
2017	15-Oct-17	9		313.1						
2017	15-Oct-17	10		392.4						
2017	15-Oct-17	11		486.4						
2017	15-Oct-17	12		441.6						
2017	15-Oct-17	13		436						
2017	15-Oct-17	14		601						
2017	15-Oct-17	15		798.2						
2017	15-Oct-17	16		1031						
2017	15-Oct-17	17		1084.5						
2017	15-Oct-17	18		947						
2017	15-Oct-17	19		565.5						
2017	15-Oct-17	20		473.6						
2017	15-Oct-17	21		521.7						
2017	15-Oct-17	22		413.2						
2017	15-Oct-17	23		319.9						
2017	16-Oct-17	0		312.7						
2017	16-Oct-17	1		277.3						
2017	16-Oct-17	2		278.6						
2017	16-Oct-17	3		442.1						
2017	16-Oct-17	4		942.7						
2017	16-Oct-17	5		1161						
2017	16-Oct-17	6		2168.3						
2017	16-Oct-17	7		1088.4						
2017	16-Oct-17	8		325.6						
2017	16-Oct-17	9	0	248.96						
2017	16-Oct-17	10	0							
2017	16-Oct-17	11	0							
2017	16-Oct-17	12	0							
2017	16-Oct-17	13	0							
2017	16-Oct-17	14	0							
2017	16-Oct-17	15	0							



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	16-Oct-17	16	0							
2017	16-Oct-17	17	0							
2017	16-Oct-17	18	0							
2017	16-Oct-17	19	0							
2017	16-Oct-17	20	0							
2017	16-Oct-17	21	0							
2017	16-Oct-17	22	0							
2017	16-Oct-17	23	0							
2017	17-Oct-17	0	0							
2017	17-Oct-17	1	0							
2017	17-Oct-17	2	0							
2017	17-Oct-17	3	0							
2017	17-Oct-17	4	0							
2017	17-Oct-17	5	11.1							
2017	17-Oct-17	6	61.9							
2017	17-Oct-17	7	100.4							
2017	17-Oct-17	8	120.1							
2017	17-Oct-17	9	206.1							
2017	17-Oct-17	10	106.2							
2017	17-Oct-17	11	106.6							
2017	17-Oct-17	12	308.4							
2017	17-Oct-17	13	220							
2017	17-Oct-17	14	458.4							
2017	17-Oct-17	15	415.5							
2017	17-Oct-17	16	218.2							
2017	17-Oct-17	17	254.2							
2017	17-Oct-17	18	189.5							
2017	17-Oct-17	19	216.3							
2017	17-Oct-17	20	203.6							
2017	17-Oct-17	21	200.2							
2017	17-Oct-17	22	213.1							
2017	17-Oct-17	23	215.5							
2017	18-Oct-17	0	217.8							
2017	18-Oct-17	1	221.7							
2017	18-Oct-17	2	220.3							
2017	18-Oct-17	3	239.5							
2017	18-Oct-17	4	424.3							
2017	18-Oct-17	5	630.7							
2017	18-Oct-17	6	715.9							
2017	18-Oct-17	7	398.5							
2017	18-Oct-17	8	283.1							
2017	18-Oct-17	9	314.3							
2017	18-Oct-17	10	248.7							
2017	18-Oct-17	11	197.5							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Oct-17	12	135.5							
2017	18-Oct-17	13	94.1							
2017	18-Oct-17	14	175.9							
2017	18-Oct-17	15	225.7							
2017	18-Oct-17	16	210.4							
2017	18-Oct-17	17	220.7							
2017	18-Oct-17	18	306.6							
2017	18-Oct-17	19	190.4							
2017	18-Oct-17	20	164.3							
2017	18-Oct-17	21	171.9							
2017	18-Oct-17	22	165.7							
2017	18-Oct-17	23	173.7							
2017	19-Oct-17	0	171							
2017	19-Oct-17	1	182.7							
2017	19-Oct-17	2	177.8							
2017	19-Oct-17	3	194.6							
2017	19-Oct-17	4	224							
2017	19-Oct-17	5	734							
2017	19-Oct-17	6	1169.1							
2017	19-Oct-17	7	725.7							
2017	19-Oct-17	8	453.9							
2017	19-Oct-17	9	364.6							
2017	19-Oct-17	10	257							
2017	19-Oct-17	11	238.5							
2017	19-Oct-17	12	300.2							
2017	19-Oct-17	13	315.9							
2017	19-Oct-17	14	282.8							
2017	19-Oct-17	15	313.7							
2017	19-Oct-17	16	419.9							
2017	19-Oct-17	17	392.7							
2017	19-Oct-17	18	340.8							
2017	19-Oct-17	19	298.9							
2017	19-Oct-17	20	294.4							
2017	19-Oct-17	21	299.5							
2017	19-Oct-17	22	256.5							
2017	19-Oct-17	23	250.2							
2017	20-Oct-17	0	241.7							
2017	20-Oct-17	1	243							
2017	20-Oct-17	2	226.5							
2017	20-Oct-17	3	291.9							
2017	20-Oct-17	4	459.4							
2017	20-Oct-17	5	911.1							
2017	20-Oct-17	6	1051							
2017	20-Oct-17	7	835.5							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	20-Oct-17	8	683.9							
2017	20-Oct-17	9	624.8							
2017	20-Oct-17	10	449.3							
2017	20-Oct-17	11	441.4							
2017	20-Oct-17	12	371.2							
2017	20-Oct-17	13	350.9							
2017	20-Oct-17	14	261							
2017	20-Oct-17	15	239.9							
2017	20-Oct-17	16	225.3							
2017	20-Oct-17	17	255.5							
2017	20-Oct-17	18	256.6							
2017	20-Oct-17	19	228.7							
2017	20-Oct-17	20	210.1							
2017	20-Oct-17	21	228							
2017	20-Oct-17	22	222							
2017	20-Oct-17	23	227.3							
2017	21-Oct-17	0	220.2							
2017	21-Oct-17	1	227.7							
2017	21-Oct-17	2	208							
2017	21-Oct-17	3	216.6							
2017	21-Oct-17	4	220.4							
2017	21-Oct-17	5	227.8							
2017	21-Oct-17	6	238.1							
2017	21-Oct-17	7	221.3							
2017	21-Oct-17	8	216.9							
2017	21-Oct-17	9	231.6							
2017	21-Oct-17	10	221.3							
2017	21-Oct-17	11	247.2							
2017	21-Oct-17	12	251.5							
2017	21-Oct-17	13	255.6							
2017	21-Oct-17	14	234.7							
2017	21-Oct-17	15	302							
2017	21-Oct-17	16	322.3							
2017	21-Oct-17	17	282							
2017	21-Oct-17	18	367.4							
2017	21-Oct-17	19	252.4							
2017	21-Oct-17	20	193.3							
2017	21-Oct-17	21	177.4							
2017	21-Oct-17	22	172.9							
2017	21-Oct-17	23	186.3							
2017	22-Oct-17	0	184							
2017	22-Oct-17	1	197.9							
2017	22-Oct-17	2	194.1							
2017	22-Oct-17	3	199.2							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	22-Oct-17	4	298.6							
2017	22-Oct-17	5	485.3							
2017	22-Oct-17	6	524.5							
2017	22-Oct-17	7	541.9							
2017	22-Oct-17	8	548.2							
2017	22-Oct-17	9	573							
2017	22-Oct-17	10	582.6							
2017	22-Oct-17	11	591							
2017	22-Oct-17	12	537.3							
2017	22-Oct-17	13	480.6							
2017	22-Oct-17	14	402.1							
2017	22-Oct-17	15	461.7							
2017	22-Oct-17	16	514.2							
2017	22-Oct-17	17	702.6							
2017	22-Oct-17	18	830.3							
2017	22-Oct-17	19	614.2							
2017	22-Oct-17	20	515.5							
2017	22-Oct-17	21	391.4							
2017	22-Oct-17	22	283.2							
2017	22-Oct-17	23	266.1							
2017	23-Oct-17	0	249.4							
2017	23-Oct-17	1	260.7							
2017	23-Oct-17	2	267.3							
2017	23-Oct-17	3	393.5							
2017	23-Oct-17	4	734.5							
2017	23-Oct-17	5	1763.4							
2017	23-Oct-17	6	1315							
2017	23-Oct-17	7	2238.4							
2017	23-Oct-17	8	2287.3							
2017	23-Oct-17	9	2299							
2017	23-Oct-17	10	2405.2							
2017	23-Oct-17	11	2283.7							
2017	23-Oct-17	12	2307.5							
2017	23-Oct-17	13	2267.5							
2017	23-Oct-17	14	2596.5							
2017	23-Oct-17	15	2361.5							
2017	23-Oct-17	16	2223							
2017	23-Oct-17	17	2450.2							
2017	23-Oct-17	18	2381.4							
2017	23-Oct-17	19	2527.9							
2017	23-Oct-17	20	2437.3							
2017	23-Oct-17	21	2412.9							
2017	23-Oct-17	22	2370.3							
2017	23-Oct-17	23	2316.7							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	24-Oct-17	0	2101.8							
2017	24-Oct-17	1	1514.6							
2017	24-Oct-17	2	1032							
2017	24-Oct-17	3	923.5							
2017	24-Oct-17	4	972.3							
2017	24-Oct-17	5	1259.1							
2017	24-Oct-17	6	1498.7							
2017	24-Oct-17	7	1184							
2017	24-Oct-17	8	894.7							
2017	24-Oct-17	9	1081.3							
2017	24-Oct-17	10	929.4							
2017	24-Oct-17	11	1048.7							
2017	24-Oct-17	12	951.8							
2017	24-Oct-17	13	1101.8							
2017	24-Oct-17	14	852.6							
2017	24-Oct-17	15	810.1							
2017	24-Oct-17	16	729.2							
2017	24-Oct-17	17	621.8							
2017	24-Oct-17	18	778.6							
2017	24-Oct-17	19	603.7							
2017	24-Oct-17	20	653.7							
2017	24-Oct-17	21	486.1							
2017	24-Oct-17	22	288.8							
2017	24-Oct-17	23	274.896							
2017	25-Oct-17	0								
2017	25-Oct-17	1								
2017	25-Oct-17	2								
2017	25-Oct-17	3								
2017	25-Oct-17	4								
2017	25-Oct-17	5								
2017	25-Oct-17	6								
2017	25-Oct-17	7								
2017	25-Oct-17	8								
2017	25-Oct-17	9								
2017	25-Oct-17	10								
2017	25-Oct-17	11								
2017	25-Oct-17	12								
2017	25-Oct-17	13								
2017	25-Oct-17	14								
2017	25-Oct-17	15								
2017	25-Oct-17	16								
2017	25-Oct-17	17								
2017	25-Oct-17	18								
2017	25-Oct-17	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	25-Oct-17	20								
2017	25-Oct-17	21								
2017	25-Oct-17	22								
2017	25-Oct-17	23								
2017	26-Oct-17	0								
2017	26-Oct-17	1								
2017	26-Oct-17	2								
2017	26-Oct-17	3								
2017	26-Oct-17	4								
2017	26-Oct-17	5								
2017	26-Oct-17	6								
2017	26-Oct-17	7								
2017	26-Oct-17	8								
2017	26-Oct-17	9								
2017	26-Oct-17	10								
2017	26-Oct-17	11								
2017	26-Oct-17	12								
2017	26-Oct-17	13								
2017	26-Oct-17	14								
2017	26-Oct-17	15								
2017	26-Oct-17	16								
2017	26-Oct-17	17								
2017	26-Oct-17	18								
2017	26-Oct-17	19								
2017	26-Oct-17	20								
2017	26-Oct-17	21								
2017	26-Oct-17	22								
2017	26-Oct-17	23								
2017	27-Oct-17	0								
2017	27-Oct-17	1								
2017	27-Oct-17	2								
2017	27-Oct-17	3								
2017	27-Oct-17	4								
2017	27-Oct-17	5								
2017	27-Oct-17	6								
2017	27-Oct-17	7								
2017	27-Oct-17	8								
2017	27-Oct-17	9								
2017	27-Oct-17	10								
2017	27-Oct-17	11								
2017	27-Oct-17	12								
2017	27-Oct-17	13								
2017	27-Oct-17	14								
2017	27-Oct-17	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	27-Oct-17	16								
2017	27-Oct-17	17								
2017	27-Oct-17	18								
2017	27-Oct-17	19								
2017	27-Oct-17	20								
2017	27-Oct-17	21								
2017	27-Oct-17	22								
2017	27-Oct-17	23								
2017	28-Oct-17	0								
2017	28-Oct-17	1								
2017	28-Oct-17	2								
2017	28-Oct-17	3								
2017	28-Oct-17	4								
2017	28-Oct-17	5								
2017	28-Oct-17	6								
2017	28-Oct-17	7								
2017	28-Oct-17	8								
2017	28-Oct-17	9								
2017	28-Oct-17	10								
2017	28-Oct-17	11								
2017	28-Oct-17	12								
2017	28-Oct-17	13								
2017	28-Oct-17	14								
2017	28-Oct-17	15								
2017	28-Oct-17	16								
2017	28-Oct-17	17								
2017	28-Oct-17	18								
2017	28-Oct-17	19								
2017	28-Oct-17	20								
2017	28-Oct-17	21								
2017	28-Oct-17	22								
2017	28-Oct-17	23								
2017	29-Oct-17	0								
2017	29-Oct-17	1								
2017	29-Oct-17	2								
2017	29-Oct-17	3								
2017	29-Oct-17	4								
2017	29-Oct-17	5								
2017	29-Oct-17	6								
2017	29-Oct-17	7								
2017	29-Oct-17	8								
2017	29-Oct-17	9								
2017	29-Oct-17	10								
2017	29-Oct-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	29-Oct-17	12								
2017	29-Oct-17	13								
2017	29-Oct-17	14								
2017	29-Oct-17	15								
2017	29-Oct-17	16								
2017	29-Oct-17	17								
2017	29-Oct-17	18								
2017	29-Oct-17	19								
2017	29-Oct-17	20								
2017	29-Oct-17	21								
2017	29-Oct-17	22								
2017	29-Oct-17	23								
2017	30-Oct-17	0								
2017	30-Oct-17	1								
2017	30-Oct-17	2								
2017	30-Oct-17	3								
2017	30-Oct-17	4								
2017	30-Oct-17	5								
2017	30-Oct-17	6								
2017	30-Oct-17	7								
2017	30-Oct-17	8								
2017	30-Oct-17	9								
2017	30-Oct-17	10								
2017	30-Oct-17	11								
2017	30-Oct-17	12								
2017	30-Oct-17	13								
2017	30-Oct-17	14								
2017	30-Oct-17	15								
2017	30-Oct-17	16								
2017	30-Oct-17	17								
2017	30-Oct-17	18								
2017	30-Oct-17	19								
2017	30-Oct-17	20								
2017	30-Oct-17	21								
2017	30-Oct-17	22								
2017	30-Oct-17	23								
2017	31-Oct-17	0								
2017	31-Oct-17	1								
2017	31-Oct-17	2								
2017	31-Oct-17	3								
2017	31-Oct-17	4								
2017	31-Oct-17	5								
2017	31-Oct-17	6								
2017	31-Oct-17	7								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	31-Oct-17	8								
2017	31-Oct-17	9								
2017	31-Oct-17	10								
2017	31-Oct-17	11								
2017	31-Oct-17	12								
2017	31-Oct-17	13								
2017	31-Oct-17	14								
2017	31-Oct-17	15								
2017	31-Oct-17	16								
2017	31-Oct-17	17								
2017	31-Oct-17	18								
2017	31-Oct-17	19								
2017	31-Oct-17	20								
2017	31-Oct-17	21								
2017	31-Oct-17	22								
2017	31-Oct-17	23								
2017	1-Nov-17	0								
2017	1-Nov-17	1								
2017	1-Nov-17	2								
2017	1-Nov-17	3								
2017	1-Nov-17	4								
2017	1-Nov-17	5								
2017	1-Nov-17	6								
2017	1-Nov-17	7								
2017	1-Nov-17	8								0
2017	1-Nov-17	9								0
2017	1-Nov-17	10								0
2017	1-Nov-17	11								
2017	1-Nov-17	12								
2017	1-Nov-17	13								
2017	1-Nov-17	14								
2017	1-Nov-17	15								
2017	1-Nov-17	16								
2017	1-Nov-17	17								
2017	1-Nov-17	18								
2017	1-Nov-17	19								
2017	1-Nov-17	20								
2017	1-Nov-17	21								
2017	1-Nov-17	22								
2017	1-Nov-17	23								
2017	2-Nov-17	0								
2017	2-Nov-17	1								
2017	2-Nov-17	2								
2017	2-Nov-17	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	2-Nov-17	4								
2017	2-Nov-17	5								
2017	2-Nov-17	6								
2017	2-Nov-17	7								
2017	2-Nov-17	8								
2017	2-Nov-17	9								
2017	2-Nov-17	10								
2017	2-Nov-17	11								
2017	2-Nov-17	12								
2017	2-Nov-17	13								
2017	2-Nov-17	14								
2017	2-Nov-17	15								
2017	2-Nov-17	16								
2017	2-Nov-17	17								
2017	2-Nov-17	18								
2017	2-Nov-17	19								
2017	2-Nov-17	20								
2017	2-Nov-17	21								
2017	2-Nov-17	22								
2017	2-Nov-17	23								
2017	3-Nov-17	0								
2017	3-Nov-17	1								
2017	3-Nov-17	2								
2017	3-Nov-17	3								
2017	3-Nov-17	4								
2017	3-Nov-17	5								
2017	3-Nov-17	6								
2017	3-Nov-17	7								
2017	3-Nov-17	8								
2017	3-Nov-17	9								
2017	3-Nov-17	10								
2017	3-Nov-17	11								
2017	3-Nov-17	12								
2017	3-Nov-17	13								
2017	3-Nov-17	14								
2017	3-Nov-17	15								
2017	3-Nov-17	16								
2017	3-Nov-17	17								
2017	3-Nov-17	18								
2017	3-Nov-17	19								
2017	3-Nov-17	20								
2017	3-Nov-17	21								
2017	3-Nov-17	22								
2017	3-Nov-17	23								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	4-Nov-17	0								
2017	4-Nov-17	1								
2017	4-Nov-17	2								
2017	4-Nov-17	3								
2017	4-Nov-17	4								
2017	4-Nov-17	5								
2017	4-Nov-17	6								
2017	4-Nov-17	7								
2017	4-Nov-17	8								
2017	4-Nov-17	9								
2017	4-Nov-17	10								
2017	4-Nov-17	11								
2017	4-Nov-17	12								
2017	4-Nov-17	13								
2017	4-Nov-17	14								
2017	4-Nov-17	15								
2017	4-Nov-17	16								
2017	4-Nov-17	17								
2017	4-Nov-17	18								
2017	4-Nov-17	19								
2017	4-Nov-17	20								
2017	4-Nov-17	21								
2017	4-Nov-17	22								
2017	4-Nov-17	23								
2017	5-Nov-17	0	0							
2017	5-Nov-17	1	0							
2017	5-Nov-17	2	0							
2017	5-Nov-17	3	0							
2017	5-Nov-17	4	0							
2017	5-Nov-17	5	0							
2017	5-Nov-17	6	0							
2017	5-Nov-17	7	0							
2017	5-Nov-17	8	0							
2017	5-Nov-17	9	0							
2017	5-Nov-17	10	0							
2017	5-Nov-17	11	0							
2017	5-Nov-17	12	0							
2017	5-Nov-17	13	16.8							
2017	5-Nov-17	14	74							
2017	5-Nov-17	15	87							
2017	5-Nov-17	16	191.1							
2017	5-Nov-17	17	181.8							
2017	5-Nov-17	18	308.2							
2017	5-Nov-17	19	438.2							

2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	5-Nov-17	20	1405.7							
2017	5-Nov-17	21	497.7							
2017	5-Nov-17	22	355.8							
2017	5-Nov-17	23	262.2							
2017	6-Nov-17	0	262.1							
2017	6-Nov-17	1	236.4							
2017	6-Nov-17	2	244.1							
2017	6-Nov-17	3	227.6							
2017	6-Nov-17	4	239							
2017	6-Nov-17	5	272.2							
2017	6-Nov-17	6	366.1							
2017	6-Nov-17	7	414.2							
2017	6-Nov-17	8	455.8							
2017	6-Nov-17	9	461.9							
2017	6-Nov-17	10	487.4							
2017	6-Nov-17	11	669							
2017	6-Nov-17	12	762.1							
2017	6-Nov-17	13	596.2							
2017	6-Nov-17	14	637.4							
2017	6-Nov-17	15	461.1							
2017	6-Nov-17	16	585.9							
2017	6-Nov-17	17	537.2							
2017	6-Nov-17	18	539.5							
2017	6-Nov-17	19	555							
2017	6-Nov-17	20	684.3							
2017	6-Nov-17	21	573.5							
2017	6-Nov-17	22	484.8							
2017	6-Nov-17	23	336.9							
2017	7-Nov-17	0	257.5							
2017	7-Nov-17	1	134							
2017	7-Nov-17	2	107.4							
2017	7-Nov-17	3	141.4							
2017	7-Nov-17	4	239.3							
2017	7-Nov-17	5	229.3							
2017	7-Nov-17	6	274.2							
2017	7-Nov-17	7	370.6							
2017	7-Nov-17	8	563.3							
2017	7-Nov-17	9	576.5							
2017	7-Nov-17	10	648.6							
2017	7-Nov-17	11	691.4							
2017	7-Nov-17	12	641.2							
2017	7-Nov-17	13	785.2							
2017	7-Nov-17	14	1076.4							
2017	7-Nov-17	15	1231.7							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Nov-17	16	1191.9							
2017	7-Nov-17	17	1419.2							
2017	7-Nov-17	18	1448.3							
2017	7-Nov-17	19	1223.2							
2017	7-Nov-17	20	1321.2							
2017	7-Nov-17	21	1314.5							
2017	7-Nov-17	22	737.1							
2017	7-Nov-17	23	598							
2017	8-Nov-17	0	418.9							
2017	8-Nov-17	1	313.2							
2017	8-Nov-17	2	242.5							
2017	8-Nov-17	3	237.4							
2017	8-Nov-17	4	274.3							
2017	8-Nov-17	5	385.7							
2017	8-Nov-17	6	751.4							
2017	8-Nov-17	7	988.3							
2017	8-Nov-17	8	1512.3							
2017	8-Nov-17	9	1184.5							
2017	8-Nov-17	10	1690.4							
2017	8-Nov-17	11	1020.3							
2017	8-Nov-17	12	1445.1							
2017	8-Nov-17	13	1533							
2017	8-Nov-17	14	1440.8			0				
2017	8-Nov-17	15	1223.3			3.9				
2017	8-Nov-17	16	1178.2			0				
2017	8-Nov-17	17	1289.9			0				
2017	8-Nov-17	18	1403.4			0				
2017	8-Nov-17	19	1628.8			0				
2017	8-Nov-17	20	1864.8			0				
2017	8-Nov-17	21	1748.6			0				
2017	8-Nov-17	22	1491.2			0				
2017	8-Nov-17	23	853			0				
2017	9-Nov-17	0	514.2			0				
2017	9-Nov-17	1	333.2			0				
2017	9-Nov-17	2	337.3			0				
2017	9-Nov-17	3	253.6			0				
2017	9-Nov-17	4	252.3			0				
2017	9-Nov-17	5	285.1			0				
2017	9-Nov-17	6	511.9			0				
2017	9-Nov-17	7	736.2			0				
2017	9-Nov-17	8	1199.1			0				
2017	9-Nov-17	9	1125.3			0				
2017	9-Nov-17	10	1054.4			0				
2017	9-Nov-17	11	722.3			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	9-Nov-17	12	477.2			0				
2017	9-Nov-17	13	428.2			0				
2017	9-Nov-17	14	280.8			0				
2017	9-Nov-17	15	278.5			0				
2017	9-Nov-17	16	311.1			0				
2017	9-Nov-17	17	371.7			0				
2017	9-Nov-17	18	509.8			0				
2017	9-Nov-17	19	493.1			0				
2017	9-Nov-17	20	454.9			0				
2017	9-Nov-17	21	476.2			0				
2017	9-Nov-17	22	406.2			0				
2017	9-Nov-17	23	257.8			0				
2017	10-Nov-17	0	254.6	2.175		0				
2017	10-Nov-17	1	241.1	2.5		0				
2017	10-Nov-17	2	257.9	3.3		0				
2017	10-Nov-17	3	248.3	3.3		0				
2017	10-Nov-17	4	318.6	2.5		0				
2017	10-Nov-17	5	672.6	2.5		0				
2017	10-Nov-17	6	1516.5	4.9		0				
2017	10-Nov-17	7	1630.7	5.7		0				
2017	10-Nov-17	8	1663.1	3.9		0				
2017	10-Nov-17	9	1115.4	4		0				
2017	10-Nov-17	10	1009.3	5.1		0				
2017	10-Nov-17	11	977.4	3.9		0				
2017	10-Nov-17	12	980.4	4		0				
2017	10-Nov-17	13	877.3	33.5		0				
2017	10-Nov-17	14	938.6	9.8		0				
2017	10-Nov-17	15	974.2	9.7		0				
2017	10-Nov-17	16	1190.3	9.8		0				
2017	10-Nov-17	17	1784.7	11.8		0				
2017	10-Nov-17	18	1747.9	17.9		0				
2017	10-Nov-17	19	1249.4	20.8		0				
2017	10-Nov-17	20	1328.8	26.6		0				
2017	10-Nov-17	21	1451.7	27.5		0				
2017	10-Nov-17	22	1478.4	31.6		0				
2017	10-Nov-17	23	1385.4	41.4		0				
2017	11-Nov-17	0	1709.3	46.1		0				
2017	11-Nov-17	1	1630.8	101.3		0				
2017	11-Nov-17	2	1938.7	118.4		0				
2017	11-Nov-17	3	1273.7	146.5		0				
2017	11-Nov-17	4	1970	159.9		0				
2017	11-Nov-17	5	1761.7	142.5		0				
2017	11-Nov-17	6	1160.5	271.2		0				
2017	11-Nov-17	7	2177.5	396.8		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	11-Nov-17	8	2005.1	1275.4		0				
2017	11-Nov-17	9	1719.3	1450.2		0				
2017	11-Nov-17	10	1911.6	1531.5		0				
2017	11-Nov-17	11	1226.1	1421.3		0				
2017	11-Nov-17	12	860.7	1213.2		0				
2017	11-Nov-17	13	717.6	1074.6		0				
2017	11-Nov-17	14	804.1	746.9		0				
2017	11-Nov-17	15	761.2	703.8		0				
2017	11-Nov-17	16	978.8	822.9		0				
2017	11-Nov-17	17	1310.5	921.4		0				
2017	11-Nov-17	18	1510.1	981.1		0				
2017	11-Nov-17	19	1573.2	764.7		0				
2017	11-Nov-17	20	1714.8	1100.3		0				
2017	11-Nov-17	21	1657.4	1504.5		0				
2017	11-Nov-17	22	1653.2	1612.1		0				
2017	11-Nov-17	23	1311.3	1690.6		0				
2017	12-Nov-17	0	1559.9	1578.6		0				
2017	12-Nov-17	1	1175.9	1294.6		0				
2017	12-Nov-17	2	1184	1042.1		0				
2017	12-Nov-17	3	930.4	859.1		0				
2017	12-Nov-17	4	966.2	694.9		0				
2017	12-Nov-17	5	879.5	636.7		0				
2017	12-Nov-17	6	953.2	648.5		0				
2017	12-Nov-17	7	1360.8	847.3		0				
2017	12-Nov-17	8	1157.3	879.2		0				
2017	12-Nov-17	9	1142	907.1		0				
2017	12-Nov-17	10	795.9	715		0				
2017	12-Nov-17	11	724.9	666.8		0				
2017	12-Nov-17	12	804.3	677.1		0				
2017	12-Nov-17	13	834.1	629.9		0				
2017	12-Nov-17	14	863.5	418.7		0				
2017	12-Nov-17	15	837.9	326.2		0				
2017	12-Nov-17	16	866.9	241.3		0				
2017	12-Nov-17	17	896.5	268.8		0				
2017	12-Nov-17	18	853.1	415.7		0				
2017	12-Nov-17	19	788.9	477.7		0				
2017	12-Nov-17	20	810.5	433.7		0				
2017	12-Nov-17	21	951.1	530.6		0				
2017	12-Nov-17	22	1009.6	516.2		0				
2017	12-Nov-17	23	973.7	530.1		0				
2017	13-Nov-17	0	983.8	451.3		0				
2017	13-Nov-17	1	971.3	375.6		0				
2017	13-Nov-17	2	953.8	270.6		0				
2017	13-Nov-17	3	774.9	197.3		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	13-Nov-17	4	856.7	147.1		0				
2017	13-Nov-17	5	850.3	123.1		0				
2017	13-Nov-17	6	921	340.3		0				
2017	13-Nov-17	7	924.5	848.9		0				
2017	13-Nov-17	8	837	1743.6		0				
2017	13-Nov-17	9	853.7	1724.1		0				
2017	13-Nov-17	10	886.2	1472.7		0				
2017	13-Nov-17	11	777.1	1695.3		0				
2017	13-Nov-17	12	938.8	1591.4		0				
2017	13-Nov-17	13	858	1038		0				
2017	13-Nov-17	14	872.3	1023.4		0				
2017	13-Nov-17	15	1265.8	911.6		0				
2017	13-Nov-17	16	1810.6	997.5		0				
2017	13-Nov-17	17	2084	1252.9		0				
2017	13-Nov-17	18	1070.1	1403.1		0				
2017	13-Nov-17	19	892.5	1685.4		0				
2017	13-Nov-17	20	1918.8	843.7		0				
2017	13-Nov-17	21	1816.1	698.9		0				
2017	13-Nov-17	22	1828.6	732.2		0				
2017	13-Nov-17	23	1814.1	672.7		0				
2017	14-Nov-17	0	1796	710.2		0				
2017	14-Nov-17	1	1736.7	499.8		0				
2017	14-Nov-17	2	1769.3	459		0				
2017	14-Nov-17	3	1754	465.7		0				
2017	14-Nov-17	4	1763.7	482.4		0				
2017	14-Nov-17	5	1777.7	540.7		0				
2017	14-Nov-17	6	1089.8	903.4		0				
2017	14-Nov-17	7	1726	1735.2		0				
2017	14-Nov-17	8	2112.7	1546.1		0				
2017	14-Nov-17	9	2213.6	1616.9		0				
2017	14-Nov-17	10	2040.2	1121.1		0				
2017	14-Nov-17	11	1735.7	578.9		0				
2017	14-Nov-17	12	2333.6	416		0				
2017	14-Nov-17	13	1638.4	455.7		0				
2017	14-Nov-17	14	2207.3	1216.1		0				
2017	14-Nov-17	15	2157.4	1735		0				
2017	14-Nov-17	16	2094.6	1687.7		0				
2017	14-Nov-17	17	2234.2	1343.9		0				
2017	14-Nov-17	18	2059.4	489.4		0				
2017	14-Nov-17	19	2204.5	1038		0				
2017	14-Nov-17	20	2098.1	1451.1		0				
2017	14-Nov-17	21	2184.6	1500.1		0				
2017	14-Nov-17	22	2056.3	917.3		0				
2017	14-Nov-17	23	2183.1	545.2		0				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	15-Nov-17	0	1991.9	6.9		0				
2017	15-Nov-17	1	1196.4	11.8		0				
2017	15-Nov-17	2	896.6	44.2		0				
2017	15-Nov-17	3	1265.5	145.5		0				
2017	15-Nov-17	4	1950.3	194.7		0				
2017	15-Nov-17	5	1829.5	176.8		0				
2017	15-Nov-17	6	1821.7	254.8		0				
2017	15-Nov-17	7	2156.2	351.4		0				
2017	15-Nov-17	8	1982.1	489.3		0				
2017	15-Nov-17	9	1819.1	1116		0				
2017	15-Nov-17	10	1917.9	1405.2						
2017	15-Nov-17	11	1461.1	1482.4						
2017	15-Nov-17	12	1940.7	1409.8						
2017	15-Nov-17	13	1847.4	1242.9						
2017	15-Nov-17	14	2090.3	787.3						
2017	15-Nov-17	15	2191.2	1002						
2017	15-Nov-17	16	1980.8	1051.3						
2017	15-Nov-17	17	1614.7	1062.9						
2017	15-Nov-17	18	2136.6	1037.4						
2017	15-Nov-17	19	1625.5	1132.5						
2017	15-Nov-17	20	2283.6	1188.8						
2017	15-Nov-17	21	2422.7	1233						
2017	15-Nov-17	22	2277.2	1320.1						
2017	15-Nov-17	23	2523.8	1436.1						
2017	16-Nov-17	0	1944.6	1253.8						
2017	16-Nov-17	1	845.1	782.3						
2017	16-Nov-17	2	595.8	459.7						
2017	16-Nov-17	3	480.1	308.2						
2017	16-Nov-17	4	394.4	265.8						
2017	16-Nov-17	5	772.4	404.5						
2017	16-Nov-17	6	1613.2	538						
2017	16-Nov-17	7	2084.2	1301.5						
2017	16-Nov-17	8	2004.6	1583.2						
2017	16-Nov-17	9	1936.1	1930.3						
2017	16-Nov-17	10	1973.5	1541.4						
2017	16-Nov-17	11	2119.5	1956.1						
2017	16-Nov-17	12	2065	1955.2						
2017	16-Nov-17	13	1349.8	1648.1						
2017	16-Nov-17	14	701.6	1302.6						
2017	16-Nov-17	15	496.5	1171.2						
2017	16-Nov-17	16	499.6	1021.3						
2017	16-Nov-17	17	577.7	1002.6						
2017	16-Nov-17	18	832.2	1459.5						
2017	16-Nov-17	19	1232.1	1764.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	16-Nov-17	20	2016.7	1939.3						
2017	16-Nov-17	21	2120.2	1926.4						
2017	16-Nov-17	22	2053	1492.3						
2017	16-Nov-17	23	2118	1992.1						
2017	17-Nov-17	0	2157.8	1582						0.18
2017	17-Nov-17	1	2055.9	1931.3						0.3
2017	17-Nov-17	2	1660.4	1164.8						0.435
2017	17-Nov-17	3	1130.2	703.5						0
2017	17-Nov-17	4	696.9	442.4						0
2017	17-Nov-17	5	922.3	345.3						0
2017	17-Nov-17	6	1738.9	693.4						0
2017	17-Nov-17	7	1429.9	1519.9						0
2017	17-Nov-17	8	1010.8	1475.4						0
2017	17-Nov-17	9	999.9	992.5						0
2017	17-Nov-17	10	928	759.4						
2017	17-Nov-17	11	950.9	990						
2017	17-Nov-17	12	819.2	977.5						
2017	17-Nov-17	13	877.4	920.6						
2017	17-Nov-17	14	889	888.6						
2017	17-Nov-17	15	887.7	893						
2017	17-Nov-17	16	909.8	900.5						
2017	17-Nov-17	17	883.9	891.4						
2017	17-Nov-17	18	894.3	869.6						
2017	17-Nov-17	19	915.6	910.8						
2017	17-Nov-17	20	922.7	910						
2017	17-Nov-17	21	935	913						
2017	17-Nov-17	22	754.4	858.5						
2017	17-Nov-17	23	489.9	862						
2017	18-Nov-17	0	906	903.2						
2017	18-Nov-17	1	858.8	905.4						
2017	18-Nov-17	2	567.7	885.2						
2017	18-Nov-17	3	526.5	904.4						
2017	18-Nov-17	4	427	888.9						
2017	18-Nov-17	5	391	897.8						
2017	18-Nov-17	6	382.1	860.2						
2017	18-Nov-17	7	522.8	908.6						
2017	18-Nov-17	8	586.1	913.9						
2017	18-Nov-17	9	604.1	907.6						
2017	18-Nov-17	10	501.6	883.2						
2017	18-Nov-17	11	659.4	909.8						
2017	18-Nov-17	12	515.6	893.1						
2017	18-Nov-17	13	514.9	888.2						
2017	18-Nov-17	14	430	874.9						
2017	18-Nov-17	15	401	912.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Nov-17	16	381.6	913.2						
2017	18-Nov-17	17	402	913.4						
2017	18-Nov-17	18	385.2	832.9						
2017	18-Nov-17	19	409.9	833.7						
2017	18-Nov-17	20	388.6	890.9						
2017	18-Nov-17	21	406.9	707.4						
2017	18-Nov-17	22	318.3	756.4						
2017	18-Nov-17	23	316.3	814.6						
2017	19-Nov-17	0	316.1	777.5						
2017	19-Nov-17	1	318.5	837.2						
2017	19-Nov-17	2	295.9	829.3						
2017	19-Nov-17	3	312.8	692						
2017	19-Nov-17	4	312.3	799.4						
2017	19-Nov-17	5	295.9	650.4						
2017	19-Nov-17	6	291.9	759.9						
2017	19-Nov-17	7	263.9	797.2						
2017	19-Nov-17	8	276.1	557.1						
2017	19-Nov-17	9	298.6	377						
2017	19-Nov-17	10	290.3	225.3	0.016					
2017	19-Nov-17	11	331.2	163.7	0.039					
2017	19-Nov-17	12	348.8	135.5	0.049					
2017	19-Nov-17	13	351.3	113.9	0.062					
2017	19-Nov-17	14	362.2	119.3	0.064					
2017	19-Nov-17	15	364.2	87.9	0.069					
2017	19-Nov-17	16	379	90.7	0.072					
2017	19-Nov-17	17	643.3	143.4	0.074					
2017	19-Nov-17	18	540.4	186.3	0.076					
2017	19-Nov-17	19	383.8	352.2	0.078					
2017	19-Nov-17	20	444.7	480.7	0.079					
2017	19-Nov-17	21	461.8	495.5	0.078					
2017	19-Nov-17	22	414.3	415.9	0.077					
2017	19-Nov-17	23	383.9	315.6	0.084					
2017	20-Nov-17	0	274.1	238.2	0.077					
2017	20-Nov-17	1	269.9	230.1	0.079					
2017	20-Nov-17	2	251.3	213.6	0.076					
2017	20-Nov-17	3	255.9	227.2	0.076					
2017	20-Nov-17	4	293.6	249.1	0.076					
2017	20-Nov-17	5	576.8	368	0.075					
2017	20-Nov-17	6	984.1	761.3	0.075					
2017	20-Nov-17	7	1066.2	724.9	0.074					
2017	20-Nov-17	8	655.7	829.8	0.074					
2017	20-Nov-17	9	473.7	928.9	0.075					
2017	20-Nov-17	10	353.1	539.7	0.074					
2017	20-Nov-17	11	273.8	368.7	0.074					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	20-Nov-17	12	305.2	274.6	0.074					
2017	20-Nov-17	13	279.1	333.8	0.074					
2017	20-Nov-17	14	298.8	259	0.073					
2017	20-Nov-17	15	282.2	249	0.073					
2017	20-Nov-17	16	305.2	271.4	0.073					
2017	20-Nov-17	17	390.2	364.1	0.074					
2017	20-Nov-17	18	565.1	472.3	0.073					
2017	20-Nov-17	19	983.9	547.8	0.071					
2017	20-Nov-17	20	880	529.2	0.073					
2017	20-Nov-17	21	729.5	497.7	0.073					
2017	20-Nov-17	22	445.8	416	0.073					
2017	20-Nov-17	23	328.4	382.2	0.073					
2017	21-Nov-17	0	236.1	299.5	0.073					
2017	21-Nov-17	1	248.1	307.9	0.073					
2017	21-Nov-17	2	225.4	256	0.074					
2017	21-Nov-17	3	283.2	257.9	0.075					
2017	21-Nov-17	4	259.4	249.7	0.075					
2017	21-Nov-17	5	353.7	185.3	0.075					
2017	21-Nov-17	6	504.2	322.6	0.075					
2017	21-Nov-17	7	669.1	506.9	0.075					
2017	21-Nov-17	8	639	615	0.075					
2017	21-Nov-17	9	639	459.1	0.068					
2017	21-Nov-17	10	466.5	293.2						
2017	21-Nov-17	11	361.9	249.6						
2017	21-Nov-17	12	299	245.6						
2017	21-Nov-17	13	363.7	248.5						
2017	21-Nov-17	14	378.1	234.6						
2017	21-Nov-17	15	329.6	240.2						
2017	21-Nov-17	16	334.4	240.2						
2017	21-Nov-17	17	469.8	275.5						
2017	21-Nov-17	18	491	326.6						
2017	21-Nov-17	19	441.2	268.5						
2017	21-Nov-17	20	359.8	244.1						
2017	21-Nov-17	21	299.1	238						
2017	21-Nov-17	22	274.4	234.6						
2017	21-Nov-17	23	301	245.2						
2017	22-Nov-17	0	275	250						
2017	22-Nov-17	1	305.9	250.7						
2017	22-Nov-17	2	287.5	243.3						
2017	22-Nov-17	3	295.2	255.8						
2017	22-Nov-17	4	240.3	247.8						
2017	22-Nov-17	5	300.8	320.5						
2017	22-Nov-17	6	942.2	691						
2017	22-Nov-17	7	2286.8	1533.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	22-Nov-17	8	2365.6	1688.9						
2017	22-Nov-17	9	2249.9	2127.4						
2017	22-Nov-17	10	2501.4	1714.2						
2017	22-Nov-17	11	2577.3	2208.1						
2017	22-Nov-17	12	2704.6	1968.7						
2017	22-Nov-17	13	2613.9	2141.7						
2017	22-Nov-17	14	2495.6	1414.3						
2017	22-Nov-17	15	1188.3	1365.3						
2017	22-Nov-17	16	508.8	928.2						
2017	22-Nov-17	17	767.9	823.1						
2017	22-Nov-17	18	873.2	923.3						
2017	22-Nov-17	19	748.6	704.7						
2017	22-Nov-17	20	567	437.7						
2017	22-Nov-17	21	645.8	476						
2017	22-Nov-17	22	497.8	248.4						
2017	22-Nov-17	23	412.8	254.2						
2017	23-Nov-17	0	360.9	258.6						
2017	23-Nov-17	1	380.4	250.9						
2017	23-Nov-17	2	365.8	234.6						
2017	23-Nov-17	3	408.2	229.2						
2017	23-Nov-17	4	335.4	257.4						
2017	23-Nov-17	5	458.8	228.8						
2017	23-Nov-17	6	1031.2	797.5						
2017	23-Nov-17	7	2390.3	1563.3						
2017	23-Nov-17	8	2281.8	1845						
2017	23-Nov-17	9	1736.7	1775.8						
2017	23-Nov-17	10	1069.8	1132.1						
2017	23-Nov-17	11	723	707.1						
2017	23-Nov-17	12	433.4	464.5						
2017	23-Nov-17	13	362.7	302.5						
2017	23-Nov-17	14	321.8	229.4						
2017	23-Nov-17	15	336	218.4						
2017	23-Nov-17	16	312.5	217.7						
2017	23-Nov-17	17	350.9	213.8						
2017	23-Nov-17	18	281.2	201.5						
2017	23-Nov-17	19	378	294.3						
2017	23-Nov-17	20	317.1	355.4						
2017	23-Nov-17	21	417.2	371.2						
2017	23-Nov-17	22	438.1	377.1						
2017	23-Nov-17	23	482.4	396.2						
2017	24-Nov-17	0	451.7	401.8						
2017	24-Nov-17	1	392.3	401.3						
2017	24-Nov-17	2		379.9						
2017	24-Nov-17	3		442.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	24-Nov-17	4		590.6						
2017	24-Nov-17	5		736.9						
2017	24-Nov-17	6		1184.1						
2017	24-Nov-17	7		1699.3						
2017	24-Nov-17	8		1795						
2017	24-Nov-17	9		1806.7						
2017	24-Nov-17	10		1548.2						
2017	24-Nov-17	11		1465.4						
2017	24-Nov-17	12		1041						
2017	24-Nov-17	13		812.7						
2017	24-Nov-17	14		637.3						
2017	24-Nov-17	15		483.6						
2017	24-Nov-17	16		369.9						
2017	24-Nov-17	17		338						
2017	24-Nov-17	18		330.2						
2017	24-Nov-17	19		338.5						
2017	24-Nov-17	20		347.2						
2017	24-Nov-17	21		284.2						
2017	24-Nov-17	22		194.6						
2017	24-Nov-17	23		176.9						
2017	25-Nov-17	0		183						
2017	25-Nov-17	1		239.3						
2017	25-Nov-17	2		215.7						
2017	25-Nov-17	3		211.4						
2017	25-Nov-17	4		211						
2017	25-Nov-17	5		148.8						
2017	25-Nov-17	6		209.3						
2017	25-Nov-17	7		225.1						
2017	25-Nov-17	8		223.3						
2017	25-Nov-17	9		221.6						
2017	25-Nov-17	10		215.8						
2017	25-Nov-17	11		219.5						
2017	25-Nov-17	12		216.1						
2017	25-Nov-17	13		213						
2017	25-Nov-17	14		204.3						
2017	25-Nov-17	15		211.6						
2017	25-Nov-17	16		216.6						
2017	25-Nov-17	17		217.5						
2017	25-Nov-17	18		214.7						
2017	25-Nov-17	19		222.1						
2017	25-Nov-17	20		217.1						
2017	25-Nov-17	21		217						
2017	25-Nov-17	22		208.4						
2017	25-Nov-17	23		218.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	26-Nov-17	0		217.2						
2017	26-Nov-17	1		219.1						
2017	26-Nov-17	2		216.9						
2017	26-Nov-17	3		218.5						
2017	26-Nov-17	4		218.1						
2017	26-Nov-17	5		287.4						
2017	26-Nov-17	6		618.9						
2017	26-Nov-17	7		1544.7						
2017	26-Nov-17	8		1823.4						
2017	26-Nov-17	9		1830.4						
2017	26-Nov-17	10		1323	0.01					
2017	26-Nov-17	11		1112.5	0.021					
2017	26-Nov-17	12		786.2	0.029					
2017	26-Nov-17	13		533.2	0.043					
2017	26-Nov-17	14		262.7	0.066					
2017	26-Nov-17	15		204	0.07					
2017	26-Nov-17	16		219.4	0.074					
2017	26-Nov-17	17		275.5	0.077					
2017	26-Nov-17	18		329.5	0.077					
2017	26-Nov-17	19		331.4	0.077					
2017	26-Nov-17	20		301.8	0.075					
2017	26-Nov-17	21		307	0.073					
2017	26-Nov-17	22		224	0.097					
2017	26-Nov-17	23		209.9	0.092					
2017	27-Nov-17	0		202.2	0.078					
2017	27-Nov-17	1		205.3	0.078					
2017	27-Nov-17	2		210.4	0.08					
2017	27-Nov-17	3		223.6	0.097					
2017	27-Nov-17	4		277.8	0.081					
2017	27-Nov-17	5		434.9	0.08					
2017	27-Nov-17	6		1037.8	0.08					
2017	27-Nov-17	7		1520.2	0.082					
2017	27-Nov-17	8		1498.6	0.082					
2017	27-Nov-17	9		1693.9	0.091					
2017	27-Nov-17	10		1588.3	0.094					
2017	27-Nov-17	11		1616.7	0.093					
2017	27-Nov-17	12		1472.1	0.081					
2017	27-Nov-17	13		1153.8	0.095					
2017	27-Nov-17	14		752.9	0.091					
2017	27-Nov-17	15		416.9	0.096					
2017	27-Nov-17	16		334.6	0.076					
2017	27-Nov-17	17		286.2	0.076					
2017	27-Nov-17	18		367.4	0.099					
2017	27-Nov-17	19		371.5	0.091					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	27-Nov-17	20		321.8	0.08					
2017	27-Nov-17	21		241	0.088					
2017	27-Nov-17	22		185	0.093					
2017	27-Nov-17	23		200	0.08					
2017	28-Nov-17	0		230.7	0.08					
2017	28-Nov-17	1		259.7	0.099					
2017	28-Nov-17	2		237.5	0.078					
2017	28-Nov-17	3		241	0.076					
2017	28-Nov-17	4		259.9	0.076					
2017	28-Nov-17	5		283.2	0.079					
2017	28-Nov-17	6		231.4	0.08					
2017	28-Nov-17	7		526.4	0.077					
2017	28-Nov-17	8		633.5	0.077					
2017	28-Nov-17	9		477.9	0.08					
2017	28-Nov-17	10		394.3	0.007					
2017	28-Nov-17	11		376.4						
2017	28-Nov-17	12		238.6						
2017	28-Nov-17	13		196.9						
2017	28-Nov-17	14		196.9						
2017	28-Nov-17	15		203						
2017	28-Nov-17	16		213.3						
2017	28-Nov-17	17		354.9						
2017	28-Nov-17	18		343.4						
2017	28-Nov-17	19		335.6						
2017	28-Nov-17	20		269.4						
2017	28-Nov-17	21		349.4						
2017	28-Nov-17	22		277.1						
2017	28-Nov-17	23		275.1						
2017	29-Nov-17	0		274.8					0	
2017	29-Nov-17	1		250.7					0	
2017	29-Nov-17	2		250.3					0.9	
2017	29-Nov-17	3		257.1					4.2	0
2017	29-Nov-17	4		260.3					20.9	0
2017	29-Nov-17	5		188.7					35.2	0.268
2017	29-Nov-17	6		270.5					45.6	0
2017	29-Nov-17	7		327.2					59.5	0
2017	29-Nov-17	8		314					69.1	0.2
2017	29-Nov-17	9		268.4					61.4	0.4
2017	29-Nov-17	10		239.4					59.1	0
2017	29-Nov-17	11		212.3					95.9	0
2017	29-Nov-17	12		248.3					97.8	0
2017	29-Nov-17	13		254.9					127.8	0
2017	29-Nov-17	14		246.4					113.2	0
2017	29-Nov-17	15		254.5					118.5	0



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	29-Nov-17	16		253.5					123.2	0
2017	29-Nov-17	17		315.1					128.6	5.9
2017	29-Nov-17	18		484.4					137.9	28.2
2017	29-Nov-17	19		433.8					136.2	57.9
2017	29-Nov-17	20		328.6					150.4	123.2
2017	29-Nov-17	21		265.7					245.8	262.8
2017	29-Nov-17	22		247.9					390.4	421.6
2017	29-Nov-17	23		273.5					538.6	429.2
2017	30-Nov-17	0		275.3					775.3	410.3
2017	30-Nov-17	1		276.3					718.4	408.2
2017	30-Nov-17	2		261.4					714.3	401.7
2017	30-Nov-17	3		258					714.1	395.7
2017	30-Nov-17	4		335.8					982.1	505.8
2017	30-Nov-17	5		769.5					1199.5	855.2
2017	30-Nov-17	6		786					1290.4	1055.5
2017	30-Nov-17	7		943.3					1334.4	973.7
2017	30-Nov-17	8		572.2					1112.8	698
2017	30-Nov-17	9		632.2					1036.5	382.8
2017	30-Nov-17	10		695.4					982	378.2
2017	30-Nov-17	11		461.5					1050.1	505.9
2017	30-Nov-17	12		265					1097.7	513.7
2017	30-Nov-17	13		251.3					1129.2	539
2017	30-Nov-17	14		264.9					1155.6	563.2
2017	30-Nov-17	15		267.4					1178.1	561.4
2017	30-Nov-17	16		408.7					1165	555.7
2017	30-Nov-17	17		1078.3					1148.7	579.6
2017	30-Nov-17	18		1361.9					1193.8	573.6
2017	30-Nov-17	19		1613.7					1220.3	589
2017	30-Nov-17	20		1461.2					1224.2	590.5
2017	30-Nov-17	21		995.1					1231.6	589.7
2017	30-Nov-17	22		816.3					1247.1	599.4
2017	30-Nov-17	23		701.5					1241.9	600.5
2017	1-Dec-17	0		571.4					1238.7	571.5
2017	1-Dec-17	1		449.2					1218.9	555.3
2017	1-Dec-17	2		360.7					1164.6	533
2017	1-Dec-17	3		313.5					1124.2	579.7
2017	1-Dec-17	4		306.2					1217.7	597.8
2017	1-Dec-17	5		206.3					1265.4	606.8
2017	1-Dec-17	6		279.1					1258.8	754.9
2017	1-Dec-17	7		343.5					1326	1053.3
2017	1-Dec-17	8		467.9					1275.4	1216.1
2017	1-Dec-17	9		496.6					1270.3	1215.9
2017	1-Dec-17	10		396.6					1289.7	1175.7
2017	1-Dec-17	11		306.1					1274.1	1202.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	1-Dec-17	12		261.9					1279	1192.5
2017	1-Dec-17	13		251.9					1294.4	1205.6
2017	1-Dec-17	14		242.4					1287.8	1090.2
2017	1-Dec-17	15		244.8					1300.4	920.3
2017	1-Dec-17	16		225.7					1273.3	695.1
2017	1-Dec-17	17		266.3					1163.6	644.7
2017	1-Dec-17	18		286					1157.9	646.7
2017	1-Dec-17	19		250.8					1227.2	632.7
2017	1-Dec-17	20		288					964.3	639.4
2017	1-Dec-17	21		344.2					659.8	634
2017	1-Dec-17	22		242.2					735.3	725.2
2017	1-Dec-17	23		226.9					444.1	949.4
2017	2-Dec-17	0		228.4					402.4	685.5
2017	2-Dec-17	1		229					223.8	329
2017	2-Dec-17	2		227.4					27.243	2.885
2017	2-Dec-17	3		237.2						
2017	2-Dec-17	4		292.1						
2017	2-Dec-17	5		348.3						
2017	2-Dec-17	6		297.9						
2017	2-Dec-17	7		495.9						
2017	2-Dec-17	8		562.3						
2017	2-Dec-17	9		709.2						
2017	2-Dec-17	10		767.7						
2017	2-Dec-17	11		678.4						
2017	2-Dec-17	12		523.3						
2017	2-Dec-17	13		377.8						
2017	2-Dec-17	14		269.5						
2017	2-Dec-17	15		222.5						
2017	2-Dec-17	16		298.9						
2017	2-Dec-17	17		500						
2017	2-Dec-17	18		419.8						
2017	2-Dec-17	19		655						
2017	2-Dec-17	20		841.4						
2017	2-Dec-17	21		904.4						
2017	2-Dec-17	22		520.8						
2017	2-Dec-17	23		135.877						
2017	3-Dec-17	0								
2017	3-Dec-17	1								
2017	3-Dec-17	2								
2017	3-Dec-17	3								
2017	3-Dec-17	4								
2017	3-Dec-17	5								
2017	3-Dec-17	6								
2017	3-Dec-17	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	3-Dec-17	8								
2017	3-Dec-17	9								
2017	3-Dec-17	10								
2017	3-Dec-17	11								
2017	3-Dec-17	12			0.023					
2017	3-Dec-17	13			0.065					
2017	3-Dec-17	14			0.07					
2017	3-Dec-17	15			0.074					
2017	3-Dec-17	16			0.093					
2017	3-Dec-17	17			0.073					
2017	3-Dec-17	18			0.093					
2017	3-Dec-17	19			0.102					
2017	3-Dec-17	20			0.1					
2017	3-Dec-17	21			0.102					
2017	3-Dec-17	22			0.102					
2017	3-Dec-17	23			0.102					
2017	4-Dec-17	0			0.102					
2017	4-Dec-17	1			0.101		154.652			
2017	4-Dec-17	2			0.096		195.4			
2017	4-Dec-17	3			0.097		187.2			
2017	4-Dec-17	4			0.097		192.4			
2017	4-Dec-17	5			0.098		194.5			
2017	4-Dec-17	6			0.081		190.7			
2017	4-Dec-17	7			0.078		203.4			
2017	4-Dec-17	8			0.08		176.9			
2017	4-Dec-17	9			0.077		221.4			
2017	4-Dec-17	10			0.079		315.4			
2017	4-Dec-17	11			0.077		291.3			
2017	4-Dec-17	12			0.075		278.6		0	
2017	4-Dec-17	13			0.077		326.2		0	
2017	4-Dec-17	14			0.077		491.6		21.6	
2017	4-Dec-17	15			0.08		628.2		115.5	
2017	4-Dec-17	16			0.077		984.7		137.4	
2017	4-Dec-17	17			0.067		1531.7		126.3	
2017	4-Dec-17	18			0.067		1681.9		119.2	
2017	4-Dec-17	19					1776.5		111.9	
2017	4-Dec-17	20					2213.2		101.1	
2017	4-Dec-17	21					2739.3		116.8	
2017	4-Dec-17	22					2842.4		110.5	
2017	4-Dec-17	23					2422.6		109.5	
2017	5-Dec-17	0					1869.4		108.3	
2017	5-Dec-17	1			0.066		908.4		137.7	
2017	5-Dec-17	2			0.075		228.9		175.5	
2017	5-Dec-17	3			0.076		247.8		280.2	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	5-Dec-17	4			0.076		278.7		315.3	
2017	5-Dec-17	5			0.078		314.6		331.2	
2017	5-Dec-17	6			0.079		380		512.4	
2017	5-Dec-17	7			0.078		426.5		662.3	
2017	5-Dec-17	8			0.077		524.6		998.5	
2017	5-Dec-17	9			0.077		778.1		907.6	
2017	5-Dec-17	10			0.077		1354.5		912.1	
2017	5-Dec-17	11			0.072		1851.7		1136.7	
2017	5-Dec-17	12			0.066		2530.2		1086.7	
2017	5-Dec-17	13			0.065		3342.7		1404.5	
2017	5-Dec-17	14			0.071		3574.1		1251.5	
2017	5-Dec-17	15			0.073		3341.6		1318.2	
2017	5-Dec-17	16			0.072		3306.3		1333.6	
2017	5-Dec-17	17			0.071		3251.1		1345	
2017	5-Dec-17	18			0.071		3236.6		1529.3	
2017	5-Dec-17	19			0.071		3217.5		1472.4	
2017	5-Dec-17	20			0.071		3190.9		1564.2	
2017	5-Dec-17	21			0.071		2371.7		1519.5	
2017	5-Dec-17	22			0.072		1842.1		1517.8	
2017	5-Dec-17	23			0.078		1153.312		1486.2	
2017	6-Dec-17	0			0.073				1440.1	
2017	6-Dec-17	1			0.072				1451.3	
2017	6-Dec-17	2			0.072				1471.7	
2017	6-Dec-17	3			0.072				1405.4	
2017	6-Dec-17	4			0.069				1394.9	
2017	6-Dec-17	5			0.052				1495.9	
2017	6-Dec-17	6		0	0.052				1449.7	
2017	6-Dec-17	7		0	0.058				1452	
2017	6-Dec-17	8		0	0.063				1527.6	
2017	6-Dec-17	9		0	0.061				2287.4	
2017	6-Dec-17	10		0	0.061				2287	
2017	6-Dec-17	11		0	0.063				2137.3	
2017	6-Dec-17	12		0	0.068				1729	
2017	6-Dec-17	13		0	0.071				1499.7	
2017	6-Dec-17	14		0	0.066				1663.3	
2017	6-Dec-17	15		0	0.067				1663.9	
2017	6-Dec-17	16		0	0.066				1870.4	
2017	6-Dec-17	17		0	0.052				1915.7	
2017	6-Dec-17	18		0	0.063				1861.3	
2017	6-Dec-17	19		48.7	0.075				1874.5	
2017	6-Dec-17	20		55.6	0.053				1874.2	
2017	6-Dec-17	21		69.7	0.054				1835	
2017	6-Dec-17	22		169.2	0.072				1815.1	
2017	6-Dec-17	23		307	0.053				1243.7	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	7-Dec-17	0		323.4	0.069				1229.5	
2017	7-Dec-17	1		197.7	0.08				1274.6	
2017	7-Dec-17	2		495.1	0.067				1270.6	
2017	7-Dec-17	3		593	0.053				1300.5	
2017	7-Dec-17	4		248	0.053				1272.8	
2017	7-Dec-17	5		152.2	0.068				1259.9	
2017	7-Dec-17	6		236.8	0.067				1263.7	
2017	7-Dec-17	7		365.2	0.066				1318.3	
2017	7-Dec-17	8		697.2	0.066				1330.7	
2017	7-Dec-17	9		1049.6	0.065				1310	
2017	7-Dec-17	10		1243.7	0.059				1317.2	
2017	7-Dec-17	11		1339.9	0.06				1372.7	
2017	7-Dec-17	12		1361.7	0.075				1910.5	
2017	7-Dec-17	13		1363.6	0.063				1736.8	
2017	7-Dec-17	14		1331.3	0.066				1637.3	
2017	7-Dec-17	15		1423.7	0.067				1610.6	
2017	7-Dec-17	16		1370.7	0.054				1589.8	
2017	7-Dec-17	17		1549.8	0.064				1559.4	
2017	7-Dec-17	18		1167.7	0.065				1491.1	
2017	7-Dec-17	19		1372.6	0.073				1346.7	
2017	7-Dec-17	20		1575.2	0.073				1399.1	
2017	7-Dec-17	21		1599.9	0.073				1368.7	
2017	7-Dec-17	22		1219.1	0.073				1354.4	
2017	7-Dec-17	23		1189.1	0.073				1216.3	
2017	8-Dec-17	0		832.3	0.073				129.72	
2017	8-Dec-17	1		586.3	0.073				67.35	
2017	8-Dec-17	2		459.9	0.073					
2017	8-Dec-17	3		384.3	0.073					
2017	8-Dec-17	4		294.4	0.073					
2017	8-Dec-17	5		220	0.074					
2017	8-Dec-17	6		236.6	0.074					
2017	8-Dec-17	7		481.8	0.076					
2017	8-Dec-17	8		737.6	0.076					
2017	8-Dec-17	9		1336.3	0.076					
2017	8-Dec-17	10		1547	0.076					
2017	8-Dec-17	11		1724.9	0.076					
2017	8-Dec-17	12		1343	0.076					
2017	8-Dec-17	13		1305.5	0.076					
2017	8-Dec-17	14		1200.6	0.077					
2017	8-Dec-17	15		1169.5	0.078					
2017	8-Dec-17	16		1625.6	0.076					
2017	8-Dec-17	17		1695.7	0.076					
2017	8-Dec-17	18		1468.2	0.076					
2017	8-Dec-17	19		1697.9	0.076					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	8-Dec-17	20		1406.8	0.077					
2017	8-Dec-17	21		1345.6	0.078					
2017	8-Dec-17	22		1168.3	0.079					
2017	8-Dec-17	23		973.3	0.079					
2017	9-Dec-17	0		798.8	0.079					
2017	9-Dec-17	1		608.1	0.079					
2017	9-Dec-17	2		324.7	0.079					
2017	9-Dec-17	3		264.7	0.079					
2017	9-Dec-17	4		200.2	0.079					
2017	9-Dec-17	5		208.1	0.079					
2017	9-Dec-17	6		307.3	0.079					
2017	9-Dec-17	7		390.1	0.08					
2017	9-Dec-17	8		643.6	0.08					
2017	9-Dec-17	9		1241.9	0.08					
2017	9-Dec-17	10		1423.5	0.08					
2017	9-Dec-17	11		1745.8	0.079					
2017	9-Dec-17	12		1506.5	0.079					
2017	9-Dec-17	13		1593.3	0.079					
2017	9-Dec-17	14		996.8	0.079					
2017	9-Dec-17	15		639	0.079					
2017	9-Dec-17	16		569.6	0.079					
2017	9-Dec-17	17		1131.8	0.079					
2017	9-Dec-17	18		882.8	0.079					
2017	9-Dec-17	19		615.1	0.08					
2017	9-Dec-17	20		506.7	0.08					
2017	9-Dec-17	21		554.5	0.08					
2017	9-Dec-17	22		523.5	0.08					
2017	9-Dec-17	23		394.4	0.079					
2017	10-Dec-17	0		338.9	0.084					
2017	10-Dec-17	1		283.7	0.08					
2017	10-Dec-17	2	0	141.4	0.08					
2017	10-Dec-17	3	0	183.5	0.08					
2017	10-Dec-17	4	0	183.6	0.08					
2017	10-Dec-17	5	0	181.5	0.08					
2017	10-Dec-17	6	0	171.8	0.08					
2017	10-Dec-17	7	0	196.5	0.08					
2017	10-Dec-17	8	0	234.6	0.08					
2017	10-Dec-17	9	0	207.6	0.08					
2017	10-Dec-17	10	0	188.5	0.08					
2017	10-Dec-17	11	0	174	0.079					
2017	10-Dec-17	12	0	192	0.079					
2017	10-Dec-17	13	0	186.3	0.079					
2017	10-Dec-17	14	0	162.8	0.079					
2017	10-Dec-17	15	0	165.4	0.079					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	10-Dec-17	16	0	180.2	0.079					
2017	10-Dec-17	17	0	330.7	0.079					
2017	10-Dec-17	18	0	446.8	0.079					
2017	10-Dec-17	19	69.4	798.2	0.079					
2017	10-Dec-17	20	42.9	1141.6	0.079					
2017	10-Dec-17	21	54.3	1081.4	0.078					
2017	10-Dec-17	22	83.2	780	0.076					
2017	10-Dec-17	23	96.2	522.3	0.076					
2017	11-Dec-17	0	131.7	373.2	0.076					
2017	11-Dec-17	1	113	227.6	0.076					
2017	11-Dec-17	2	168.7	193.5	0.073					
2017	11-Dec-17	3	147.1	197.2	0.071					
2017	11-Dec-17	4	83.9	186.1	0.07					
2017	11-Dec-17	5	126.9	173.5	0.07					
2017	11-Dec-17	6	210.8	301.4	0.07					
2017	11-Dec-17	7	347.2	655.3	0.07					
2017	11-Dec-17	8	952.4	1057.3	0.07					
2017	11-Dec-17	9	1085.4	955.2	0.07					
2017	11-Dec-17	10	1011	804.3	0.069					
2017	11-Dec-17	11	775	722.5	0.07					
2017	11-Dec-17	12	685	652.7	0.07					
2017	11-Dec-17	13	478	474.4	0.07					
2017	11-Dec-17	14	398.9	372.6	0.07					
2017	11-Dec-17	15	371.8	363.2	0.07					
2017	11-Dec-17	16	444	412.7	0.07					
2017	11-Dec-17	17	579.9	553.1	0.07					
2017	11-Dec-17	18	760.9	765.3	0.072					
2017	11-Dec-17	19	1106.1	1039.7	0.078					
2017	11-Dec-17	20	1697.6	1574.4	0.075					
2017	11-Dec-17	21	1389.8	1263.1	0.073					
2017	11-Dec-17	22	943.1	802.7	0.073					
2017	11-Dec-17	23	799.6	534.7	0.073					
2017	12-Dec-17	0	282.9	179.8	0.074					
2017	12-Dec-17	1	161.5	131.1	0.074					
2017	12-Dec-17	2	177.5	176.6	0.071					
2017	12-Dec-17	3	185.2	203.8	0.072					
2017	12-Dec-17	4	257.1	195.1	0.075					
2017	12-Dec-17	5	461.2	183.3	0.074					
2017	12-Dec-17	6	984.2	191.5	0.074					
2017	12-Dec-17	7	1592.2	326.2	0.074					
2017	12-Dec-17	8	1059.7	362.5	0.073					
2017	12-Dec-17	9	1273.8	431.1	0.073					
2017	12-Dec-17	10	830.4	752.7	0.073					
2017	12-Dec-17	11	471.5	1306.9	0.072				0	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	12-Dec-17	12	265	1289	0.072				1	
2017	12-Dec-17	13	256.1	1194.3	0.072				61.5	
2017	12-Dec-17	14	280.5	974.3	0.072				58.7	
2017	12-Dec-17	15	327.6	824.6	0.072				70.6	
2017	12-Dec-17	16	383.8	807	0.072				70.8	
2017	12-Dec-17	17	580.7	1019.1	0.072				69.9	
2017	12-Dec-17	18	1288	1361.5	0.073				141.7	
2017	12-Dec-17	19	1592.1	1488.9	0.073				156.4	
2017	12-Dec-17	20	1421.2	1465.7	0.074				141.5	
2017	12-Dec-17	21	1471.2	1437	0.074				156.4	
2017	12-Dec-17	22	1451.6	1400.8	0.074				156.4	
2017	12-Dec-17	23	1332.2	1352.9	0.074				145.6	
2017	13-Dec-17	0	1307.1	1415.4	0.074				146.6	
2017	13-Dec-17	1	1292.5	1327.6	0.073				176.7	
2017	13-Dec-17	2	1180	1336.5	0.072				281.1	
2017	13-Dec-17	3	1422.5	1595.2	0.072				393.4	
2017	13-Dec-17	4	1076.4	1473.5	0.073				425.9	
2017	13-Dec-17	5	994.6	1021.5	0.073				483.6	
2017	13-Dec-17	6	1659.8	1502.6	0.073				639.4	
2017	13-Dec-17	7	1892.5	1721.4	0.073				676.9	
2017	13-Dec-17	8	1741	1825.2	0.074				705.3	
2017	13-Dec-17	9	1451.2	1829.9	0.075				1086.3	
2017	13-Dec-17	10	1370.9	1391.6	0.075				1992	
2017	13-Dec-17	11	1177.9	1864.9	0.075				2983.8	
2017	13-Dec-17	12	978.4	1824.1	0.075				2827.9	
2017	13-Dec-17	13	946.1	1919.5	0.076				2548	
2017	13-Dec-17	14	1044.1	1923.3	0.076				2153.3	
2017	13-Dec-17	15	1166.8	1884.5	0.076				2163.8	
2017	13-Dec-17	16	1145.6	1901.4	0.075				2098.8	
2017	13-Dec-17	17	1179.2	1902.7	0.075				1514.5	
2017	13-Dec-17	18	1208.9	1564.6	0.075				1182.1	
2017	13-Dec-17	19	1247.3	1579.3	0.076				1173.4	
2017	13-Dec-17	20	1269.7	1383.8	0.076				1074.5	
2017	13-Dec-17	21	1277.5	1328.6	0.076				1077.7	
2017	13-Dec-17	22	952.8	904.1	0.076				1053.4	
2017	13-Dec-17	23	565.4	573.9	0.077				1041.6	
2017	14-Dec-17	0	451.8	472.2	0.077				1090.6	
2017	14-Dec-17	1	388.4	400.8	0.077				1174.9	
2017	14-Dec-17	2	274.2	274.6	0.077				1242.1	
2017	14-Dec-17	3	355.7	232.6	0.077				1152.9	
2017	14-Dec-17	4	456.6	433.4	0.079				1045.7	
2017	14-Dec-17	5	601.6	578.5	0.09				1045.6	
2017	14-Dec-17	6	877.1	804.9	0.075				1240.1	
2017	14-Dec-17	7	1352.7	1461.7	151.075				1584.1	



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	14-Dec-17	8	1831	1743.9	238.8				1543.5	
2017	14-Dec-17	9	1793	1876.9	370.7				1700.5	
2017	14-Dec-17	10	1580.7	1550.4	523.5				1719.9	
2017	14-Dec-17	11	1110.3	1354.8	678.6				1697.3	
2017	14-Dec-17	12	696.1	1169	734.5				1702.4	
2017	14-Dec-17	13	688.5	945	849.5				1588.6	
2017	14-Dec-17	14	614.5	800.6	888.3				1326.8	
2017	14-Dec-17	15	775.6	867	518.8				1323.8	
2017	14-Dec-17	16	816.4	980.5	0.052				1328.7	
2017	14-Dec-17	17	1458.8	1473.5	0.078				1368.2	
2017	14-Dec-17	18	1825.3	1709.8	0.075				1659.8	
2017	14-Dec-17	19	1803.6	1765.2	0.077				1674.4	
2017	14-Dec-17	20	1818.7	1814.6	0.077				1750.4	
2017	14-Dec-17	21	1658.7	1726.4	0.077				1715.4	
2017	14-Dec-17	22	1257	1529.9	0.077				1490.1	
2017	14-Dec-17	23	944.5	1364.2	0.076				1490.3	
2017	15-Dec-17	0	471.5	871.1	0.075				741.9	
2017	15-Dec-17	1	458.1	502	0.076				30.36	
2017	15-Dec-17	2	340.1	349	0.076					
2017	15-Dec-17	3	384	343	0.077					
2017	15-Dec-17	4	317.9	312.3	0.077					
2017	15-Dec-17	5	509.2	343.1	0.076					
2017	15-Dec-17	6	758.3	556.5	0.073					
2017	15-Dec-17	7	1215.9	999.2	0.073					
2017	15-Dec-17	8	1322.7	1243.6	0.075					
2017	15-Dec-17	9	1369.7	1434.6	0.076					
2017	15-Dec-17	10	1471.8	1410.3	0.076					
2017	15-Dec-17	11	1551.9	1572.8	0.076					
2017	15-Dec-17	12	1574.6	1695.5	0.076					
2017	15-Dec-17	13	1657.4	1779.6	0.077					
2017	15-Dec-17	14	1550.8	1654.1	0.077					
2017	15-Dec-17	15	1367.5	1456.6	0.077					
2017	15-Dec-17	16	1420.2	1311.3	0.077					
2017	15-Dec-17	17	1723	1606.7	0.077					
2017	15-Dec-17	18	1750.9	1554.3	0.077					
2017	15-Dec-17	19	1738.8	1611.6	0.078					
2017	15-Dec-17	20	1691.6	1629.9	0.078					
2017	15-Dec-17	21	1743.3	1575.8	0.078					
2017	15-Dec-17	22	1613.7	1459.2	0.079					
2017	15-Dec-17	23	1639	1563.9	0.078					
2017	16-Dec-17	0	1583.7	938.9	0.078					
2017	16-Dec-17	1	1719.4	434.2	0.078					
2017	16-Dec-17	2	1534.1	376.2	0.078					
2017	16-Dec-17	3	1589.3	584.4	0.078					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	16-Dec-17	4	1597.6	278.4	0.079					
2017	16-Dec-17	5	1618.9		0.079					
2017	16-Dec-17	6	1659.5		0.079					
2017	16-Dec-17	7	1578.9		0.079					
2017	16-Dec-17	8	1513.5		0.079					
2017	16-Dec-17	9	1510.9		0.08					
2017	16-Dec-17	10	1426.5		0.08					
2017	16-Dec-17	11	1426.2		0.08					
2017	16-Dec-17	12	804.5		0.08					14.62
2017	16-Dec-17	13	526.3		0.08					34
2017	16-Dec-17	14	342		0.08					0.8
2017	16-Dec-17	15	240.1		0.079					0
2017	16-Dec-17	16	316.8		0.078					
2017	16-Dec-17	17	668		0.079					
2017	16-Dec-17	18	1120.2		0.079					
2017	16-Dec-17	19	1070.8		0.079					
2017	16-Dec-17	20	1145.7		0.078					
2017	16-Dec-17	21	1367.8		0.076					
2017	16-Dec-17	22	1051.2		0.078					
2017	16-Dec-17	23	1020		0.077					
2017	17-Dec-17	0	915.6		0.077					
2017	17-Dec-17	1	759		0.077					
2017	17-Dec-17	2	478.6		0.077					
2017	17-Dec-17	3	401.6		0.077					
2017	17-Dec-17	4	293.6		0.077					
2017	17-Dec-17	5	313.9		0.077					
2017	17-Dec-17	6	541.5		0.077					
2017	17-Dec-17	7	743.7		0.077					
2017	17-Dec-17	8	1597.9		0.077					
2017	17-Dec-17	9	1460.1		0.077					
2017	17-Dec-17	10	599.9		0.077					
2017	17-Dec-17	11	410		0.078					
2017	17-Dec-17	12	342.2		0.08					
2017	17-Dec-17	13	351.1		0.08					
2017	17-Dec-17	14	280.6		0.08					
2017	17-Dec-17	15	249.3		0.079					
2017	17-Dec-17	16	163.1		0.074					
2017	17-Dec-17	17	216.9		0.073					
2017	17-Dec-17	18	380.8		0.068					
2017	17-Dec-17	19	723.7		0.068					
2017	17-Dec-17	20	865.7		0.07					
2017	17-Dec-17	21	481.8		0.055					
2017	17-Dec-17	22	278.7		0.011					
2017	17-Dec-17	23	216.1		0.01					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	18-Dec-17	0	175.2		0.01					
2017	18-Dec-17	1	204.2		0.01					
2017	18-Dec-17	2	173.9		0.01					
2017	18-Dec-17	3	194		0.009					
2017	18-Dec-17	4	169.7		0.008					
2017	18-Dec-17	5	192.9		0.004					
2017	18-Dec-17	6	292.5							
2017	18-Dec-17	7	392							
2017	18-Dec-17	8	271.4							
2017	18-Dec-17	9	326.6							
2017	18-Dec-17	10	290.1							
2017	18-Dec-17	11	318.1							
2017	18-Dec-17	12	226.2							
2017	18-Dec-17	13	206.3							
2017	18-Dec-17	14	173.3							
2017	18-Dec-17	15	199.5							
2017	18-Dec-17	16	169.9							
2017	18-Dec-17	17	231.6							
2017	18-Dec-17	18	223.4							
2017	18-Dec-17	19	241							
2017	18-Dec-17	20	267.7							
2017	18-Dec-17	21	219.1							
2017	18-Dec-17	22	165.5							
2017	18-Dec-17	23	218.075							
2017	19-Dec-17	0								
2017	19-Dec-17	1								
2017	19-Dec-17	2								
2017	19-Dec-17	3								
2017	19-Dec-17	4								
2017	19-Dec-17	5								
2017	19-Dec-17	6								
2017	19-Dec-17	7								
2017	19-Dec-17	8								
2017	19-Dec-17	9								
2017	19-Dec-17	10								
2017	19-Dec-17	11								
2017	19-Dec-17	12								
2017	19-Dec-17	13								
2017	19-Dec-17	14								
2017	19-Dec-17	15								
2017	19-Dec-17	16								
2017	19-Dec-17	17								
2017	19-Dec-17	18								
2017	19-Dec-17	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	19-Dec-17	20								
2017	19-Dec-17	21								
2017	19-Dec-17	22								
2017	19-Dec-17	23								
2017	20-Dec-17	0								
2017	20-Dec-17	1								
2017	20-Dec-17	2								
2017	20-Dec-17	3								
2017	20-Dec-17	4								
2017	20-Dec-17	5								
2017	20-Dec-17	6								
2017	20-Dec-17	7								
2017	20-Dec-17	8								
2017	20-Dec-17	9								
2017	20-Dec-17	10								
2017	20-Dec-17	11								
2017	20-Dec-17	12								
2017	20-Dec-17	13								
2017	20-Dec-17	14								
2017	20-Dec-17	15								
2017	20-Dec-17	16								
2017	20-Dec-17	17								
2017	20-Dec-17	18								
2017	20-Dec-17	19								
2017	20-Dec-17	20								
2017	20-Dec-17	21								
2017	20-Dec-17	22								
2017	20-Dec-17	23								
2017	21-Dec-17	0								
2017	21-Dec-17	1								
2017	21-Dec-17	2								
2017	21-Dec-17	3								
2017	21-Dec-17	4								
2017	21-Dec-17	5								
2017	21-Dec-17	6								
2017	21-Dec-17	7								
2017	21-Dec-17	8								
2017	21-Dec-17	9								
2017	21-Dec-17	10								
2017	21-Dec-17	11								
2017	21-Dec-17	12								
2017	21-Dec-17	13								
2017	21-Dec-17	14								
2017	21-Dec-17	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	21-Dec-17	16								
2017	21-Dec-17	17								
2017	21-Dec-17	18								
2017	21-Dec-17	19								
2017	21-Dec-17	20								
2017	21-Dec-17	21								
2017	21-Dec-17	22								
2017	21-Dec-17	23								
2017	22-Dec-17	0								
2017	22-Dec-17	1								
2017	22-Dec-17	2								
2017	22-Dec-17	3								
2017	22-Dec-17	4								
2017	22-Dec-17	5								
2017	22-Dec-17	6								
2017	22-Dec-17	7								
2017	22-Dec-17	8								
2017	22-Dec-17	9								
2017	22-Dec-17	10								
2017	22-Dec-17	11								
2017	22-Dec-17	12								
2017	22-Dec-17	13								
2017	22-Dec-17	14								
2017	22-Dec-17	15								
2017	22-Dec-17	16								
2017	22-Dec-17	17								
2017	22-Dec-17	18								
2017	22-Dec-17	19								
2017	22-Dec-17	20								
2017	22-Dec-17	21								
2017	22-Dec-17	22								
2017	22-Dec-17	23								
2017	23-Dec-17	0								
2017	23-Dec-17	1								
2017	23-Dec-17	2								
2017	23-Dec-17	3								
2017	23-Dec-17	4								
2017	23-Dec-17	5								
2017	23-Dec-17	6								
2017	23-Dec-17	7								
2017	23-Dec-17	8								
2017	23-Dec-17	9								
2017	23-Dec-17	10								
2017	23-Dec-17	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	23-Dec-17	12								
2017	23-Dec-17	13								
2017	23-Dec-17	14								
2017	23-Dec-17	15								
2017	23-Dec-17	16								
2017	23-Dec-17	17								
2017	23-Dec-17	18								
2017	23-Dec-17	19								
2017	23-Dec-17	20								
2017	23-Dec-17	21								
2017	23-Dec-17	22								
2017	23-Dec-17	23								
2017	24-Dec-17	0								
2017	24-Dec-17	1								
2017	24-Dec-17	2								
2017	24-Dec-17	3								
2017	24-Dec-17	4								
2017	24-Dec-17	5								
2017	24-Dec-17	6								
2017	24-Dec-17	7								
2017	24-Dec-17	8								
2017	24-Dec-17	9								
2017	24-Dec-17	10								
2017	24-Dec-17	11								
2017	24-Dec-17	12								
2017	24-Dec-17	13								
2017	24-Dec-17	14		3.306						
2017	24-Dec-17	15		3.4						
2017	24-Dec-17	16		2.5						
2017	24-Dec-17	17		2.6						
2017	24-Dec-17	18		5.1						
2017	24-Dec-17	19		4.2						
2017	24-Dec-17	20		5						
2017	24-Dec-17	21		4.2						
2017	24-Dec-17	22		4.1						
2017	24-Dec-17	23		4.3						
2017	25-Dec-17	0		5.2						
2017	25-Dec-17	1		5.3						
2017	25-Dec-17	2		5.3						
2017	25-Dec-17	3		5.3						
2017	25-Dec-17	4		5.3						
2017	25-Dec-17	5		5.3						
2017	25-Dec-17	6		5.4						
2017	25-Dec-17	7		46.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	25-Dec-17	8		22.9						
2017	25-Dec-17	9		25.1						
2017	25-Dec-17	10		30.4						
2017	25-Dec-17	11		69.7						
2017	25-Dec-17	12		144.9		2.944				
2017	25-Dec-17	13		318		3.2				
2017	25-Dec-17	14		263.8		3.1				
2017	25-Dec-17	15		224.9		3.2				
2017	25-Dec-17	16		214.5		3				
2017	25-Dec-17	17		221.1		3				
2017	25-Dec-17	18		234.6		3.1				
2017	25-Dec-17	19		200.5		3.1				
2017	25-Dec-17	20		204.9		3.1				
2017	25-Dec-17	21		246.1		6.2				
2017	25-Dec-17	22		231.5		2.5				
2017	25-Dec-17	23		196.4		1.7				
2017	26-Dec-17	0		207		0.7				
2017	26-Dec-17	1		200.7		0.2				
2017	26-Dec-17	2		192		0				
2017	26-Dec-17	3		181		0				
2017	26-Dec-17	4		185.4		0				
2017	26-Dec-17	5		191.9		0				
2017	26-Dec-17	6		194.2		0				
2017	26-Dec-17	7		275.1		7.8				
2017	26-Dec-17	8	0	411.9		3				
2017	26-Dec-17	9	0	680.8		2.1				
2017	26-Dec-17	10	0	1356.2		0.9				
2017	26-Dec-17	11	0	1474.3		0.3	0			
2017	26-Dec-17	12	0	1469.1		0	0			
2017	26-Dec-17	13	0	1414.5		0	0			
2017	26-Dec-17	14	0	1644.7		0	0			
2017	26-Dec-17	15	7.9	1288.4		0	0			
2017	26-Dec-17	16	6.8	1087.8		0	0			
2017	26-Dec-17	17	13.1	1798.7		0	0			
2017	26-Dec-17	18	27.2	1509.9		0	43.29			
2017	26-Dec-17	19	38.4	1546.4		0	251.9			
2017	26-Dec-17	20	54.4	1779.4		0	263.7			
2017	26-Dec-17	21	125.3	1577.2		0	192.9			
2017	26-Dec-17	22	290.2	1505.2		0	307			0
2017	26-Dec-17	23	644.3	1547.2		0	282.4			0
2017	27-Dec-17	0	824.9	1307.2		0	260.7			1
2017	27-Dec-17	1	889.3	1124.9		0	251.5			0.1
2017	27-Dec-17	2	826.7	843.4		0	288			0
2017	27-Dec-17	3	1100.5	723.6		0	462.6		0	0

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	27-Dec-17	4	1306.6	705		0	452.9		0.3	0
2017	27-Dec-17	5	1947.5	846.7		0	572.2		59.1	0
2017	27-Dec-17	6	1486.1	1021		0	574.9		57.6	0
2017	27-Dec-17	7	750.9	1618		8.7	1177.6		72.5	0
2017	27-Dec-17	8	540	1460.8		1.3	1507.6		70.6	0.4
2017	27-Dec-17	9	577.1	861.4		1.9	1880.3		70.3	0.2
2017	27-Dec-17	10	610.2	927.9		0.7	2379.8		61.6	18.8
2017	27-Dec-17	11	746.3	934.5		0.3	2854.3		58.8	144.6
2017	27-Dec-17	12	836.3	833.7		0	3169.9		62.7	348.6
2017	27-Dec-17	13	926.1	906.6		0	3268.1		128.4	740.6
2017	27-Dec-17	14	917.8	920.7		0	3348.4		121	698.2
2017	27-Dec-17	15	914.1	811.3		0	3463.7		119.8	1287.8
2017	27-Dec-17	16	908.1	884.6		9.1	3449.1		92.8	1277.1
2017	27-Dec-17	17	879	883.2		191.4	3530.3		100	1271.4
2017	27-Dec-17	18	905.2	820.6		250.9	3508.5		138.1	1133.3
2017	27-Dec-17	19	890.9	859.3		438.2	3603.4		191.1	1105.6
2017	27-Dec-17	20	872.2	848.3		448.1	3580		238.5	1092.2
2017	27-Dec-17	21	877	861		551.6	3496.7		286.7	933.3
2017	27-Dec-17	22	853.9	824.8		634.3	3514.4		454.1	910
2017	27-Dec-17	23	847.8	827.3		906.6	3387.4		764.2	878.2
2017	28-Dec-17	0	838.1	817.7		1124.4	3547		902.2	876.8
2017	28-Dec-17	1	845.6	818.5		1093	3628.6		1076.1	870.8
2017	28-Dec-17	2	851.7	815.7		1079.4	3692.1		1204.2	864.6
2017	28-Dec-17	3	849.7	805.3		1083	3731.5		1162.2	809.3
2017	28-Dec-17	4	830.1	826.8		1077.8	3677.5		1245.9	768.1
2017	28-Dec-17	5	891.8	831.4		1086.6	3645.2		1376.7	925.7
2017	28-Dec-17	6	889.6	794.1		1101	3635.9		1515.7	982.6
2017	28-Dec-17	7	889.9	816.1		645.916	3578.6		1250.1	1053.8
2017	28-Dec-17	8	857.5	808.3			3628.3		1154.8	930.3
2017	28-Dec-17	9	871.1	844.7		2.052	3622.9		1157.6	921.3
2017	28-Dec-17	10	860.4	787.7		5.9	3622.3		1241.9	956
2017	28-Dec-17	11	903.9	842.6		4.3	3624.9		1091.9	976.4
2017	28-Dec-17	12	908.2	830.2		59.7	3623.9		915	980.8
2017	28-Dec-17	13	903.7	839.1		517.2	3611.6		842.7	878.8
2017	28-Dec-17	14	936.1	854.3		813.6	3619.6		769.3	848.1
2017	28-Dec-17	15	977.8	800.7		1134.7	3595		762.8	824.9
2017	28-Dec-17	16	1022.8	791.3		586	3541.2		778.5	828.7
2017	28-Dec-17	17	964.3	752.8		77	3555.6		765.5	823.9
2017	28-Dec-17	18	928.2	704.2			3550.3		801.7	831.5
2017	28-Dec-17	19	917.2	724.7			3549.1		788.2	813.7
2017	28-Dec-17	20	935.1	714.8			3506.2		770.3	824.5
2017	28-Dec-17	21	916.4	729.6		0.021	3470.1		761.9	828.1
2017	28-Dec-17	22	910.5	711.7		0.8	3483.6		763.2	824.1
2017	28-Dec-17	23	881.6	691.3		48.1	3459.7		746.4	815.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	29-Dec-17	0	870.1	717.8		255.8	3460.8		677.7	783.7
2017	29-Dec-17	1	852.1	662.2		1089.1	3436.1		671	778.1
2017	29-Dec-17	2	875.6	668.9		678.8	3430.1		684.2	827.3
2017	29-Dec-17	3	874	686.9		970.1	3402.9		752.6	823.3
2017	29-Dec-17	4	882.5	688		1086.9	3397.1		752.7	823
2017	29-Dec-17	5	868.7	687.8		832.4	3376.6		702.6	813.7
2017	29-Dec-17	6	813.3	653.6		515.4	3369.1		718.6	787.3
2017	29-Dec-17	7	826.3	719.3		571.3	3269.5		757.7	812
2017	29-Dec-17	8	752.9	699.9		771	3441		751.3	803.2
2017	29-Dec-17	9	825	703.3		1117.5	3417.9		1006.7	812.6
2017	29-Dec-17	10	783	699.9		1122.4	3304.2		942	816.6
2017	29-Dec-17	11	828.9	704.7		1146.4	3259.8		944.5	824.2
2017	29-Dec-17	12	768.7	684.9		1100.7	3304		967.9	768.5
2017	29-Dec-17	13	824.6	686		1046.5	3264.3		961.8	780.1
2017	29-Dec-17	14	785.6	685.4		1021.6	3331.9		970.7	835.1
2017	29-Dec-17	15	777.1	670		1018.9	3278.6		963.2	825.7
2017	29-Dec-17	16	745.5	673.2		768.2	3269.7		901.3	789.1
2017	29-Dec-17	17	779.5	680.7		856.9	3284.5		920.5	842.6
2017	29-Dec-17	18	754.2	675.9		1083.4	3354.5		919.6	815.5
2017	29-Dec-17	19	812.8	697.5		870.9	3342.6		922.4	800.4
2017	29-Dec-17	20	808.2	694.5		870	3278.3		923.2	808.4
2017	29-Dec-17	21	805.2	706.2		1104.5	3317.4		939.2	802.7
2017	29-Dec-17	22	769.5	712.3		1097.5	3312.4		950.3	801.8
2017	29-Dec-17	23	832.1	741.9		1139.1	3303.5		936.4	790.5
2017	30-Dec-17	0	800.6	733.6		948	3265.9		907.6	777.7
2017	30-Dec-17	1	816.4	722.4		844.3	3275.8		931.8	787.1
2017	30-Dec-17	2	810.6	723.1		644.4	3272.9		869.7	747.3
2017	30-Dec-17	3	863.9	733.2		426.6	3192.2		929.4	796.2
2017	30-Dec-17	4	849.2	763.8		501	3302.8		960.9	813.5
2017	30-Dec-17	5	907.4	615.4		732	3205.2		950.2	818.5
2017	30-Dec-17	6	921.7	365.2		1000.2	3172.2		1042.3	830.9
2017	30-Dec-17	7	979.3	410.2		1223.7	3260.5		1049.9	846.3
2017	30-Dec-17	8	849.9	842.9		1180.3	3229.688		1021	934.9
2017	30-Dec-17	9	885.7	1413.4		1221.9	3277		1073.5	899.4
2017	30-Dec-17	10	840.8	833.6		1190.8	3172.2		1020.8	899.9
2017	30-Dec-17	11	857.1	707.5	0.024	1083.5	3235.5		997.1	883.6
2017	30-Dec-17	12	824.2	641.7	0.043	605.3	3225.4		817	818.6
2017	30-Dec-17	13	840.2	730.7	0.055	606.9	3130.5		35.304	875
2017	30-Dec-17	14	815.2	684.9	0.061	717.2	3148.4			881
2017	30-Dec-17	15	893.3	720.3	0.061	605.1	3146			800.2
2017	30-Dec-17	16	870.9	772.3	0.061	484.7	3159.6			841.6
2017	30-Dec-17	17	921.9	738.1	0.061	760.1	3173.4			850
2017	30-Dec-17	18	893.3	770.1	0.064	1256.1	3185.4			844.9
2017	30-Dec-17	19	926.1	776.2	0.068	1091	3183.5			846.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2017	30-Dec-17	20	877.2	760.6	0.072	905.7	3185.6			860.5
2017	30-Dec-17	21	901.5	787.4	0.034	661.3	3116.2			845.6
2017	30-Dec-17	22	891.8	765.8		673.2	3137.1			822.5
2017	30-Dec-17	23	920.9	779.3		630.1	3134.9			792.8
2017	31-Dec-17	0	901.1	791.8		513.5	3094.9			807.7
2017	31-Dec-17	1	910.5	769.1		827.4	3184.2			815.8
2017	31-Dec-17	2	876.8	771		966	3169			851.1
2017	31-Dec-17	3	919.3	779.8		1221.3	3160.4			841.6
2017	31-Dec-17	4	875	774.8		1214.9	3121.6			826.8
2017	31-Dec-17	5	912.8	774.7		1214.8	3146.5			833.2
2017	31-Dec-17	6	908.6	773.8		1167.6	3175			853.3
2017	31-Dec-17	7	875.9	759		1269.9	3145			811.5
2017	31-Dec-17	8	810.8	723.3		1273.5	3199.6			813.9
2017	31-Dec-17	9	850.5	741.7		1269.5	3184.1			804.4
2017	31-Dec-17	10	881.5	773.7		1247.1	3171.9			798.2
2017	31-Dec-17	11	929	781		1245.7	3142.2			796.4
2017	31-Dec-17	12	922.7	775.7		1104.3	3160.4			758.8
2017	31-Dec-17	13	940.1	771.5		1234.1	3159.9			817.1
2017	31-Dec-17	14	920	777.1		1238.3	3099.3			819.9
2017	31-Dec-17	15	943.9	796.5		1235.7	3107.8			796.1
2017	31-Dec-17	16	934.8	812.2		1242.9	3087.4			787.3
2017	31-Dec-17	17	924.6	767.7		1235.5	3039.5			777.9
2017	31-Dec-17	18	876.5	767.5		1247.1	3101.1	0.041		778.6
2017	31-Dec-17	19	893.9	787.9		1246.1	3102.8	0.094		759.6
2017	31-Dec-17	20	844	758.7		1253.3	3002.8	0.111		766.3
2017	31-Dec-17	21	869.3	764.2		1274.8	3144.9	0.125		788.4
2017	31-Dec-17	22	845.9	770.2		1244.5	3119.5	0.105		757.7
2017	31-Dec-17	23	898.8	766.1		1237.7	3157.1	0.054		757.7
2018	01-01-2018	0	881.6	780		1237.7	3166.8	0.034		771.5
2018	01-01-2018	1	923	814.1		1247.7	3159.8	0.054		792.5
2018	01-01-2018	2	870.1	803.8		1257	3123.6	0.062		808.9
2018	01-01-2018	3	863.3	761.5	0.008	1253.5	3128.8	0.062		760.6
2018	01-01-2018	4	831.8	771.6	0.04	1260.4	3134.9	0.062		743.7
2018	01-01-2018	5	877.5	791.4	0.051	1264.7	3093	0.062		759.4
2018	01-01-2018	6	889.4	771.5	0.062	1259.9	3097.2	262.953		793.4
2018	01-01-2018	7	859.5	755	0.07	1246.5	3183.1	822.8		804.8
2018	01-01-2018	8	845.7	792.7	0.076	1280.1	3174.8	846.4		802.4
2018	01-01-2018	9	912.9	816.7	0.077	1132.2	3138.3	841.8	0	765.3
2018	01-01-2018	10	950.1	810.6	0.084	959.1	3162.8	770.7	0	816
2018	01-01-2018	11	1002.3	834.7	0.09	1211.4	3171.9	674.1	0.6	818
2018	01-01-2018	12	1001.8	866.5	0.095	1243.9	3136.4	777.4	1.1	782.7
2018	01-01-2018	13	1021.6	891.4	172.928	1207.7	3107.1	777.2	1.3	736.6
2018	01-01-2018	14	993.2	876.9	292.5	1186.1	3063.8	751.2	26.2	735.1
2018	01-01-2018	15	1022.1	892	358	1228.6	3127.3	747.3	48.1	718.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-01-2018	16	992.6	900.3	373.6	1220.2	3140.5	52.584	50.7	712
2018	01-01-2018	17	985.7	857.4	566.5	1241.4	3157.4		79.8	727.9
2018	01-01-2018	18	951.8	851.1	787.5	1250.5	3168.7		76.1	739.8
2018	01-01-2018	19	956.7	838.1	878.9	1260.3	3145.2		72.4	743.3
2018	01-01-2018	20	937.6	848.7	861.8	1247.9	3174.9		71.6	781.7
2018	01-01-2018	21	921.7	845.6	899	1253.6	3185.5		73.2	761.1
2018	01-01-2018	22	919.4	843.9	674.7	1229.9	3186.7		79.2	731.7
2018	01-01-2018	23	912	843.2	479.2	1258.8	3203.5		75.2	727.5
2018	01-02-2018	0	880.9	838.5	483.2	1261.1	3237.4		60.1	723
2018	01-02-2018	1	886.7	816.9	643.6	1262.4	3275.3		67.6	750.9
2018	01-02-2018	2	870.5	815.7	682.094	1264.8	3260.2		127.6	682.4
2018	01-02-2018	3	899.4	836.8		1270.1	3249.5		173.6	672.7
2018	01-02-2018	4	896	837.3		1276.5	3234.7		233.8	636
2018	01-02-2018	5	915	836.4		1275.3	3243.5		286.2	636.5
2018	01-02-2018	6	974	831.3		1272.9	3258.4		274	638.8
2018	01-02-2018	7	968.7	827.5		1274.5	3285.5		288.3	690.9
2018	01-02-2018	8	929.1	840.2		1308.1	3271		351.9	673.7
2018	01-02-2018	9	946	859		1327.8	3221.6		396.4	696
2018	01-02-2018	10	944.8	858.3		1318.7	3273.8		421.7	681.6
2018	01-02-2018	11	999.5	904.9		1291	3268.3		594.8	702
2018	01-02-2018	12	999.8	909.5		1285.1	3253.9		763.8	756.2
2018	01-02-2018	13	976.7	895.6		1210.8	3260.1		729.6	782.1
2018	01-02-2018	14	613.2	941.2		1283.5	3274.8		734.3	759.8
2018	01-02-2018	15	751.3	939.1		1285.4	3265.6		870	722.2
2018	01-02-2018	16	716.6	963.5		1278.7	3265.5		1051.2	711.6
2018	01-02-2018	17	684.7	960.2		1285.2	3274.6		1046.3	713.4
2018	01-02-2018	18	708.9	932.7		1278.9	3294.5		1095.9	753.8
2018	01-02-2018	19	736	904.9		1283.9	3305.8		1152.7	787.4
2018	01-02-2018	20	665.7	888.3		1276.9	3280.5		1132.3	808.5
2018	01-02-2018	21	691.9	919.1		1270	3284.1		1166.8	821.4
2018	01-02-2018	22	656.9	913.7		1069.6	3270.6	334.223	1160.3	788.7
2018	01-02-2018	23	685	924		1065.9	3283.2	365.616	1240.3	821.7
2018	01-03-2018	0	688.7	954.1		1244.5	3284.5	370.825	1242.4	828.4
2018	01-03-2018	1	719.2	969.1		1254.3	3252.9	596.892	1274.5	860.4
2018	01-03-2018	2	719.6	980.9		1267.1	3256	712.047	1496.9	896.7
2018	01-03-2018	3	753.6	999.1		1277	3244.6	724.347	1540.4	960.4
2018	01-03-2018	4	769	1014.1		1288.5	3261.4	711.747	1450	993.1
2018	01-03-2018	5	791.2	990.6		1261.6	3298.1	1183.64	1266.1	948.2
2018	01-03-2018	6	798.3	1002		1270.5	3289.1	1387.1	1281	937.4
2018	01-03-2018	7	784.9	976.8		1283	3255	1825.6	1239	912.5
2018	01-03-2018	8	756.4	994		1335.3	3286.3	1914.4	1317.7	828.3
2018	01-03-2018	9	941.7	1203.9		1396	3229.8	2028.6	1275	818.7
2018	01-03-2018	10	821.1	835.3		1353.7	3203.3	2281.5	1291.7	828.6
2018	01-03-2018	11	797.7	613.4		1332.6	3252.1	2127.3	1188	838.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-03-2018	12	715	792.7		1295.4	3214	2206.7	1141.8	874.2
2018	01-03-2018	13	814.2	736.1		1305.8	3272.1	2217.2	1137.8	861.9
2018	01-03-2018	14	768.2	735.2		1302.4	3263.1	1985.2	1147	855.5
2018	01-03-2018	15	805	789		1328.8	3259.8	2472.3	1176.6	861.7
2018	01-03-2018	16	781.8	733.4		1328.6	3225.1	2416.1	1123.3	877.4
2018	01-03-2018	17	761.3	725.6		1322.7	3194	2592.7	1086.4	939.4
2018	01-03-2018	18	744.6	747.2		1313	3210.5	2421.6	1000.1	931.5
2018	01-03-2018	19	708.5	693.9		1321.4	3218.9	1602	947.9	872.8
2018	01-03-2018	20	689.3	682.7		1322.3	3145.4	983.2	962.1	842.3
2018	01-03-2018	21	693.4	706.9		1154.8	3158.9	868.9	1006.8	800.8
2018	01-03-2018	22	678.1	701.4		960.9	3180.7	858	1020.6	832.6
2018	01-03-2018	23	705.4	661.5		572.3	3170.8	866.7	1023.4	845.5
2018	01-04-2018	0	663.7	627		413	3145.9	876.1	1030.9	832
2018	01-04-2018	1	709	646.6		304.1	3073.2	886	1025.7	776.2
2018	01-04-2018	2	677.7	647.9		306.9	3013.5	884.5	1057.9	770.1
2018	01-04-2018	3	711.5	636.6		289.5	3047.9	887.4	1102.9	851.5
2018	01-04-2018	4	718.2	716.4		617.5	3139.1	887.9	1066	813.4
2018	01-04-2018	5	713.4	711.4		352.5	3060.7	893	1082.7	794.1
2018	01-04-2018	6	725.6	681.5		685.1	3114.3	943.8	1095.2	797.9
2018	01-04-2018	7	737.3	690.5		1185.4	3103.5	1133	1148.7	813.5
2018	01-04-2018	8	731.1	707.5		1219.5	3087.9	1568.2	1250.4	849.8
2018	01-04-2018	9	866.9	718.4		1310.3	3083.2	2170.4	1251.2	890.5
2018	01-04-2018	10	791	728.2		1321.9	3131.3	2814.5	1262.1	884
2018	01-04-2018	11	598.5	687.6		1315.9	3130.1	3155.3	1239.6	897.2
2018	01-04-2018	12	604.4	665.8		1312.7	3147.7	3209.7	1181.9	846.3
2018	01-04-2018	13	780.1	676.2		1307	3161.3	3192	1181.1	854.7
2018	01-04-2018	14	692.7	662.2		1327	3148.7	3120.5	1091.4	862.1
2018	01-04-2018	15	770.5	677.1		1330.2	3118.8	2782.7	1107.8	854
2018	01-04-2018	16	734.8	697.8		1348.9	3136.6	2673.1	1119.5	852.8
2018	01-04-2018	17	770	742.6		1367.6	3112.1	3169.6	1117.8	842.4
2018	01-04-2018	18	775.8	747.7		1348.4	3140.4	3103.5	1074	818.1
2018	01-04-2018	19	768.3	720.4		1353	3117.6	3172.5	1077	835.8
2018	01-04-2018	20	752.3	713.4		1351	3183	3203	1090.7	860.6
2018	01-04-2018	21	767.6	744.3		1346.4	3145.3	3184.6	1169	824.6
2018	01-04-2018	22	778.1	759.4		1346.8	3192.7	3121.1	1129.3	833.2
2018	01-04-2018	23	837.7	747.9		1339	3162.1	3143.9	1106	824.7
2018	01-05-2018	0	779.9	704.3		1320	3207.4	2789.7	1158.4	809
2018	01-05-2018	1	760.8	751.4		1324.2	3196.8	3181.4	1143.4	817.2
2018	01-05-2018	2	743.2	734.3		1325.4	3193.5	3196.6	1153.6	819.5
2018	01-05-2018	3	776	752.4		1320	3226.8	3108.6	1174.1	837.1
2018	01-05-2018	4	803.2	754		1290.5	3199.1	2950.2	1178.2	849.3
2018	01-05-2018	5	811.9	779.5		1221.9	3235.2	2591.6	1144.5	840.1
2018	01-05-2018	6	861.1	741.8		1211.4	3212.4	2143.2	1169.4	837.4
2018	01-05-2018	7	797.9	753.1		1330.5	3181.1	2327.7	1153.2	874.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-05-2018	8	789.1	764.9		1356.7	3223	2999	1298.2	916.7
2018	01-05-2018	9	759.3	706		1376.7	3240.2	3200.1	1368.6	921
2018	01-05-2018	10	716.5	717.2		1350.9	3281.4	3178.5	1292.1	908.1
2018	01-05-2018	11	727.3	712.6		1327.8	3249.4	3181.3	1197.8	896.1
2018	01-05-2018	12	708.5	690.4		1321.2	3249	3179.4	1164	858
2018	01-05-2018	13	704.9	663.7		1319.9	3263.1	3167.9	1177.4	856.1
2018	01-05-2018	14	676.6	650.2		1332.9	3273.4	3187.1	1179.3	875.4
2018	01-05-2018	15	657.2	645.4		1314.8	3278.1	3070.8	1179.7	882.2
2018	01-05-2018	16	657.2	657.1		1363.4	3268.3	3151.4	1224.3	891.7
2018	01-05-2018	17	657.7	660.4		1360.5	3262	3203.4	1186.9	900.6
2018	01-05-2018	18	696.4	667.8		1363	3287.6	3195.6	1049.4	854.5
2018	01-05-2018	19	696.1	717.7		1362.6	3307	3192.1	1030	817.4
2018	01-05-2018	20	641.2	648.3		1351.9	3280.5	3190.1	1037.4	797.1
2018	01-05-2018	21	699.7	659.4		1349.8	3256.7	3194.9	1144.9	801.6
2018	01-05-2018	22	725	772		1350.5	3279.3	3194.3	1175.8	801.8
2018	01-05-2018	23	777	801.3		1351.8	3308.9	3198	1000.5	817.3
2018	01-06-2018	0	769.3	763.6		1349.6	3281	3195.3	701.8	771.5
2018	01-06-2018	1	730.3	743.2		1351.9	3263.5	3156.7	23.639	751
2018	01-06-2018	2	687.8	729.2		1338.6	3294.7	3136.1		744.9
2018	01-06-2018	3	709.5	723.3		1334.2	3308.4	3182.7		744.5
2018	01-06-2018	4	737.3	771.9		1351.9	3322.2	3187		746.1
2018	01-06-2018	5	754.2	794.2		1346.8	3336.3	3040.6		762.9
2018	01-06-2018	6	803.7	789		1348.5	3324.4	3196.3		764
2018	01-06-2018	7	730.4	729.1		1345.8	3293.5	3202.4		783
2018	01-06-2018	8	680.7	639.6		1350.1	3341.8	3201.1		802.4
2018	01-06-2018	9	703.3	733.7		1358.7	3283.1	3201.3		818.2
2018	01-06-2018	10	679.6	696.4		1360.5	3261.9	3198.3		809.7
2018	01-06-2018	11	679.5	680.1		1356.8	3251.1	3198.3		844.3
2018	01-06-2018	12	679.4	699.4		1339.6	3236	3198.2		839.7
2018	01-06-2018	13	732.1	735.2		1340	3260.2	3194.5		836.7
2018	01-06-2018	14	699.5	708.5		1346.5	3277.4	3195.8		774.9
2018	01-06-2018	15	742.5	715.2		1319.2	3322	3189.4		749.6
2018	01-06-2018	16	698.4	733.5		1314.1	3344.6	3199.5		821.6
2018	01-06-2018	17	690.2	709.3		1304.7	3326.5	3201		836.7
2018	01-06-2018	18	715.7	721		1291.3	3347.3	3140.3		816.8
2018	01-06-2018	19	720.6	755.5		1288.8	3398.9	3051.9		787.2
2018	01-06-2018	20	670.6	772.8		1297	3352.3	3060		763.3
2018	01-06-2018	21	718	723.8		1298	3350.3	3147.3		749.5
2018	01-06-2018	22	725.2	769.6		1294.7	3343.9	3202.8		745.1
2018	01-06-2018	23	728.7	716.6		1294.3	3339.5	3129.2		768.5
2018	01-07-2018	0	626.8	751.5		1299.1	3383	2690.6		746.2
2018	01-07-2018	1	732.7	767.6		1303	3413	2695.4		777
2018	01-07-2018	2	687.5	684		1308	3405.7	2693.5		802.1
2018	01-07-2018	3	784.5	751		1301	3362.5	2696		799.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-07-2018	4	753.8	807		1303.4	3334.8	2693.3		780.8
2018	01-07-2018	5	749.7	748.5		1308.2	3291.5	2696		797.6
2018	01-07-2018	6	806.4	750		1300.3	3252.9	2693.5		830.5
2018	01-07-2018	7	669.3	708.7		1310.7	3219.1	2692.3		944.4
2018	01-07-2018	8	627.2	721.8		1319.1	3288.3	2694.3		1012.6
2018	01-07-2018	9	724.2	724		1330	3200.9	2690.7		998.2
2018	01-07-2018	10	649.1	688		1328.2	3277.7	2692.1		978.4
2018	01-07-2018	11	700.2	680.9		1283.1	3277.7	2644.1		987
2018	01-07-2018	12	523.7	696.3		1232.1	3026.3	2489.5		919.8
2018	01-07-2018	13	701.7	683.3		1130.3	3170.1	1905.8		955
2018	01-07-2018	14	657.2	676.9		1069.5	3242.2	1463.8		952.9
2018	01-07-2018	15	690.8	703.3		1198.5	3263.5	1242.3		990.2
2018	01-07-2018	16	679.6	704.5		1198.2	3263.6	1372.5		971.7
2018	01-07-2018	17	720.8	706.3	0.014	1195.3	3275.3	1609.2		958
2018	01-07-2018	18	738.5	745.7	0.025	1197.3	3270.5	1587.4		981
2018	01-07-2018	19	670.6	845.7	0.031	1205.9	3258.7	1984.7		999.6
2018	01-07-2018	20	721.3	796.5	0.05	1214.1	3269.4	2203.2		967.3
2018	01-07-2018	21	830	823.2	0.062	1201.2	3279	1694.1		970.7
2018	01-07-2018	22	801	879.3	71.879	1158.7	3249.3	1236.2		984.6
2018	01-07-2018	23	854.8	863.1	129	1228.8	3261.8	1328		993.3
2018	01-08-2018	0	755	768.4	127	820.7	3211.3	1056.2		988.4
2018	01-08-2018	1	738.7	638.2	127.3	561.3	3127.4	747.1		986.2
2018	01-08-2018	2	775.4	848.8	127.7	716.4	2997.7	839.7		958.7
2018	01-08-2018	3	805.7	867.4	191.4	1184	2957.4	1521.5		948.9
2018	01-08-2018	4	807.7	811.8	178.9	1186.7	3280.1	1563.7		956.5
2018	01-08-2018	5	801.5	857.2	237.7	1113.2	3282.2	1393.8		980.1
2018	01-08-2018	6	831.3	867.2	327.3	1203.4	3362.3	1545.5		963.9
2018	01-08-2018	7	868.6	877.6	343.4	1251.5	3370.6	1956.6		997.1
2018	01-08-2018	8	656.7	784.5	429.6	1272.7	3345.4	2178.8		948.7
2018	01-08-2018	9	752.3	807	627.8	1236.3	3252.4	2378.4		960.5
2018	01-08-2018	10	610.7	743.3	515.2	1148.4	3231.2	2130.7		989.2
2018	01-08-2018	11	560.9	712.8	396.2	1091.3	3251.7	1830.9		998.6
2018	01-08-2018	12	394.6	557	142.848	938.6	3252.2	1534.5		1014.6
2018	01-08-2018	13	410.9	504.8		788.7	3248.7	1409		1044.8
2018	01-08-2018	14	377.6	493.6		735.1	3185.3	1204.6		964.9
2018	01-08-2018	15	373.7	438		983.6	3177.4	919.6		976.7
2018	01-08-2018	16	348.9	442.1		1114.2	3191.2	901.9		1046
2018	01-08-2018	17	424.3	481.6		1144.3	3248.6	732.8		1013.3
2018	01-08-2018	18	474.3	455.2		1085.1	3222.1	711.5		1025
2018	01-08-2018	19	679.1	456.4		947.8	3177	693.4		995.6
2018	01-08-2018	20	667.5	596.4		954.1	3194.3	692.3		995.9
2018	01-08-2018	21	722.3	686.4		820.9	3154	691.2		992.1
2018	01-08-2018	22	621.8	735.8		951.1	2991.2	688.1		1000.2
2018	01-08-2018	23	787.9	825.3		1147.8	3027.3	686.9		996.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-09-2018	0	566.9	735		1068.2	2885.4			993.1
2018	01-09-2018	1	554.8	805.5		1058.1	2815.1			981.7
2018	01-09-2018	2	653.1	883.9		1068.8	2805.6			987.3
2018	01-09-2018	3	863.9	863.5		1080.5	2772.5			984.9
2018	01-09-2018	4	778.4	936.3		1084.3	2861.9			938.7
2018	01-09-2018	5	853.4	921.5		1155.4	2974.7			901.1
2018	01-09-2018	6	756.7	789.4		1169	3081.1			930.3
2018	01-09-2018	7	574.1	621.1		1120.1	3177.8			973.9
2018	01-09-2018	8	488	565.1		368.9	3205.9			1005.3
2018	01-09-2018	9	465.8	539.9		206	3123.5			978.5
2018	01-09-2018	10	432.9	519.1		60.102	2970.5			907.1
2018	01-09-2018	11	510.5	553			2746.6			865.6
2018	01-09-2018	12	443.6	548.8			2607.3			824.9
2018	01-09-2018	13	388.2	465.7			2378.7			782.3
2018	01-09-2018	14	281.4	418.4			2112.8			786
2018	01-09-2018	15	232.4	319.4			1936.2			813.8
2018	01-09-2018	16	185.8	258			1886.5			828.8
2018	01-09-2018	17	247.5	281.4			2013.2			915.6
2018	01-09-2018	18	250.2	328.6			2166.6			873.6
2018	01-09-2018	19	386	396.6			2257			899.3
2018	01-09-2018	20	369	494.6			2237.4			848.9
2018	01-09-2018	21	413.4	528.6			2103.1			734.8
2018	01-09-2018	22	223.4	430.9			1917.6			658.3
2018	01-09-2018	23	171.4	322.9			1887.8			639.3
2018	01-10-2018	0	135	289.6			1877.9			279.702
2018	01-10-2018	1	142.4	255.8			1873.9			
2018	01-10-2018	2	119.5	222.9			1886.3			
2018	01-10-2018	3	130.3	189.3			1884.5			
2018	01-10-2018	4	95.5	170.4			1868.5			
2018	01-10-2018	5	133.2	195.7			1857.8			
2018	01-10-2018	6	291.5	237.7			1966			
2018	01-10-2018	7	196.3	331.4			2315.9			
2018	01-10-2018	8	110.1	380.6			2194.4			
2018	01-10-2018	9	152.5	492.5			2087			
2018	01-10-2018	10	127.4	423.4			1916.3			
2018	01-10-2018	11	167.2	412.9			1874			
2018	01-10-2018	12	129.9	395.9			1844.6			
2018	01-10-2018	13	147.8	340			1856.4			
2018	01-10-2018	14	103.3	316.1			1855.5			
2018	01-10-2018	15	127.4	308.7			1846.6			
2018	01-10-2018	16	92.2	233.1			1847.8			
2018	01-10-2018	17	148.4	240.5			1866.2			
2018	01-10-2018	18	121.4	240.5			1915.5			
2018	01-10-2018	19	135.6	220.3			1834.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-10-2018	20	109.5	188			1826			
2018	01-10-2018	21	128.2	156.1			1846.4			
2018	01-10-2018	22	79.8	123.3			1833.7			
2018	01-10-2018	23	77.5	96			1839.7			
2018	01-11-2018	0	48.2	87.4			1846.1			
2018	01-11-2018	1	76.2	83.5			1838.7			
2018	01-11-2018	2	48.3	85.8			1823.1			
2018	01-11-2018	3	71.4	82.3			1820.7			
2018	01-11-2018	4	46.9	82.8			1829.6			
2018	01-11-2018	5	70.4	86.3			1827.5			
2018	01-11-2018	6	108.8	100.3			1823.9			
2018	01-11-2018	7	148.3	158			1881.3			
2018	01-11-2018	8	81.5	149.9			1857.8			
2018	01-11-2018	9	85.1	176.1			1812			
2018	01-11-2018	10	47.7	178.9			1830.2			
2018	01-11-2018	11	78.2	175.1			1834.9			
2018	01-11-2018	12	54.5	175			1826.2			
2018	01-11-2018	13	71.9	174.4			1837.7			
2018	01-11-2018	14	69.5	171.9			1833.6			
2018	01-11-2018	15	69.3	197.8			1835.6			
2018	01-11-2018	16	46.7	336.9			1838.9			
2018	01-11-2018	17	64.9	609.5			1847.6			
2018	01-11-2018	18	46.8	221.7			1853.1			
2018	01-11-2018	19	76.9	80.8			1845.7			
2018	01-11-2018	20	52.9	125.7			1840.9			
2018	01-11-2018	21	67.6	424.6			1834.5			
2018	01-11-2018	22	63.8	99.5			1843.3			
2018	01-11-2018	23	359	90.4			1849			
2018	01-12-2018	0	278.3	95.3			1847.2			
2018	01-12-2018	1	86.8	95.3			1850.2			
2018	01-12-2018	2	48.5	93.4			1839			
2018	01-12-2018	3	59	90.2			1831.9			
2018	01-12-2018	4	52.1	88.1			1821.4			
2018	01-12-2018	5	69.7	88.5			1840.6			
2018	01-12-2018	6	93.7	91			1818.4			
2018	01-12-2018	7	113.3	110.1			1821.7			
2018	01-12-2018	8	59.8	91.3			1835.5			
2018	01-12-2018	9	88.8	100.6			1798.5			
2018	01-12-2018	10	102.9	132.8			1810.5			
2018	01-12-2018	11	262.5	200			1809			
2018	01-12-2018	12	143.9	217.6			1810.6			0
2018	01-12-2018	13	120.2	238.1			1808.2			0
2018	01-12-2018	14	101.7	177.7			1805			0.5
2018	01-12-2018	15	137.3	156.2			1811.2			0



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-12-2018	16	191.2	158.9			1803.1			0
2018	01-12-2018	17	316	135.4			1807.6			0
2018	01-12-2018	18	289.1	119.1			1806.6			0.6
2018	01-12-2018	19	79	113.8			1813.5			1.1
2018	01-12-2018	20	136	98.9			1807			0
2018	01-12-2018	21	427.7	87.9			1803.8			0
2018	01-12-2018	22	82	95.4		0	1809.2			0
2018	01-12-2018	23	135.7	100		0	1820.6			1.8
2018	01-13-2018	0	123.1	92.4		0	1804.9			47.5
2018	01-13-2018	1	118.8	89.6		0	1778.9			111.5
2018	01-13-2018	2	187.4	85.9		1.9	1791.7			225.6
2018	01-13-2018	3	107.3	88.5		0	1804.9			341.9
2018	01-13-2018	4	70.3	84.4		0	1823.2			385
2018	01-13-2018	5	95.3	82.6		0	1812.4			365.7
2018	01-13-2018	6	94.8	83.9		0	1811.9			361.7
2018	01-13-2018	7	104.8	90.1		0	1836.3			385.3
2018	01-13-2018	8	71.9	104.4		0.5	1845.8			455.4
2018	01-13-2018	9	102.2	191.9		0.5	1967.6			747.6
2018	01-13-2018	10	129.7	320.9		0.5	2373.7			988.9
2018	01-13-2018	11	387.8	534.7		1	2550.1			1092.8
2018	01-13-2018	12	374.8	705.3		57.5	2518.9			1062.8
2018	01-13-2018	13	517.7	592.4		280.1	2465.4			994.2
2018	01-13-2018	14	659.9	757.7		477.1	2323.1			1008.7
2018	01-13-2018	15	835.1	807.2		456.2	2503.2			945.3
2018	01-13-2018	16	735.3	750		517.8	2683.8			882.7
2018	01-13-2018	17	742.4	757		920	3022.5			865.8
2018	01-13-2018	18	657.3	683.3		1169.5	3180			808.8
2018	01-13-2018	19	744.7	690.8		1022.2	3199.2			885.4
2018	01-13-2018	20	487.1	783.7		1168.1	3214.9			901.4
2018	01-13-2018	21	608.2	766.3		1179.7	3202.8			910.8
2018	01-13-2018	22	771.6	719		1170.9	3204.5			972.7
2018	01-13-2018	23	768.1	756.8		1145	3219			990.2
2018	01-14-2018	0	766.5	635.6		1138.1	3225.8			989.6
2018	01-14-2018	1	830.5	684.8		1197.7	3224.8			994.9
2018	01-14-2018	2	798.2	653.8		1185.2	3221.9			1016.9
2018	01-14-2018	3	826.9	508.7		1172	3211.7			940.8
2018	01-14-2018	4	831.1	870.9		1196	3224.4			869.6
2018	01-14-2018	5	805.4	565.3		1198.7	3207.8			842.5
2018	01-14-2018	6	820.6	771.9		1211.4	3256.5			833.5
2018	01-14-2018	7	888.1	898.7		1209.8	3242.7			848.4
2018	01-14-2018	8	838.3	917.8		1233.9	3267.8			867.7
2018	01-14-2018	9	869.9	935.4		1183.9	3239.4			866.9
2018	01-14-2018	10	827.4	895.8		992.5	3259.3			875.5
2018	01-14-2018	11	858.5	921.5		770.9	3143.6			823.3

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-14-2018	12	834	931.2		543.8	3052			756.7
2018	01-14-2018	13	811.4	908.9		361.6	2951.4			691.5
2018	01-14-2018	14	824.9	922.1		357.7	2796.2			695.3
2018	01-14-2018	15	939.2	1015		281.6	2778.3			782.4
2018	01-14-2018	16	796.2	886.4		380.3	2842.3			796.7
2018	01-14-2018	17	847.9	828.9		824.2	3018.8			821.6
2018	01-14-2018	18	778.8	855.9		1181.3	3112.4			837.9
2018	01-14-2018	19	835.7	927.7		1229.4	3231.5			821.9
2018	01-14-2018	20	803.9	931.4		1239.3	3257.7			814.1
2018	01-14-2018	21	844.9	934.1		1263	3256.7			807.9
2018	01-14-2018	22	724.6	789.6		1091.3	3235			801.4
2018	01-14-2018	23	740.6	796.7		860.9	3261.1			821.9
2018	01-15-2018	0	792.6	878.3		758.8	3266.6			849.9
2018	01-15-2018	1	835.4	893.5		545.2	3258.1			884.1
2018	01-15-2018	2	849.1	972.4		389.4	3235.6			932.6
2018	01-15-2018	3	896.3	979.3		737.2	3327			914.4
2018	01-15-2018	4	773.8	896.5		1216.5	3283.2			797.7
2018	01-15-2018	5	838.9	927		1095.1	3239.1			688.4
2018	01-15-2018	6	790.5	755.9		1240.1	3258.8			760.6
2018	01-15-2018	7	725.9	715.6		1241.6	3253.6			901.9
2018	01-15-2018	8	651.6	735.6		1290.5	3250.8			910.1
2018	01-15-2018	9	690.6	721.9		1336.5	3219.6			911.9
2018	01-15-2018	10	608	700.7		1301.9	3259.8			901.8
2018	01-15-2018	11	674.4	724.8		1301.6	3174.7			889.1
2018	01-15-2018	12	623	775.1		1305.1	3182.1			848.6
2018	01-15-2018	13	732.9	825.6		1306	3223.3			831.8
2018	01-15-2018	14	760.5	906.1		1247.8	3227			821.9
2018	01-15-2018	15	890.1	994.7		1117.6	3223.3			804.4
2018	01-15-2018	16	831.1	942.2		985	3197.7			793.9
2018	01-15-2018	17	838.8	841.5		1208.7	3221.2			822.5
2018	01-15-2018	18	787	762.4		1259.5	3213.9			856.2
2018	01-15-2018	19	810.4	804.5		1269	3148.6			884.8
2018	01-15-2018	20	763.5	928.3		1256.3	3143.6			916.4
2018	01-15-2018	21	771.7	808.6		1139.9	3122.5			889.3
2018	01-15-2018	22	659.5	759.4		1241.5	3179.2			883.8
2018	01-15-2018	23	479.9	805		1122	3133.5			825.9
2018	01-16-2018	0	624.8	818.6		658.8	3095.5			815
2018	01-16-2018	1	745.3	780.4		414.7	3110.7			819
2018	01-16-2018	2	680.7	260.8		395.6	2957.1			773.9
2018	01-16-2018	3	785.2	264.4		369.9	2912.5			869
2018	01-16-2018	4	679.7	401.3		436.5	3233			873
2018	01-16-2018	5	730.7	534.2		398	3209.8			742
2018	01-16-2018	6	740.6	702.2		934.5	3219.7			848.1
2018	01-16-2018	7	725.9	819.2		1333.6	3250.7			903

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-16-2018	8	707.3	804		1371.5	3245.6			901.1
2018	01-16-2018	9	724	805.2		1424.8	3224.6			892.1
2018	01-16-2018	10	699.8	821.3		1408	3238.3			836.3
2018	01-16-2018	11	609.6	607		1379.9	3097.6			834.4
2018	01-16-2018	12	341.2	528.2		1368.1	2840.7			801
2018	01-16-2018	13	343.1	547		1370.3	2678.6			770.3
2018	01-16-2018	14	327.3	602.9		1362.4	2627.6			791.8
2018	01-16-2018	15	328.1	523.6		1355.6	2566.4			761
2018	01-16-2018	16	244.2	498.4		1361	2692.3			762.9
2018	01-16-2018	17	325.6	543.1		1367.1	2899.6			711.8
2018	01-16-2018	18	297.9	523.3		1151	3072.5			700.7
2018	01-16-2018	19	578.4	690.2		1213.3	3186.6			712.1
2018	01-16-2018	20	573.4	772.5		1371.1	3220.6			702.3
2018	01-16-2018	21	553.2	751.6		1034.4	3255.3			744.3
2018	01-16-2018	22	583	741.6		925.8	3239			751.4
2018	01-16-2018	23	663.2	586.9		470.4	3126.4			666.3
2018	01-17-2018	0	628.8	669.5		441	3159.6			797.8
2018	01-17-2018	1	674	682.6		476.8	3203			807
2018	01-17-2018	2	592.5	780.6		390.8	3197.5			801.6
2018	01-17-2018	3	690.7	782.5		480.4	3225.7			737.5
2018	01-17-2018	4	641.6	863.6		509.8	3203.1			559.8
2018	01-17-2018	5	705	861.8		527.6	3214.4			526.7
2018	01-17-2018	6	791.2	776.7		363.1	3229.3			519.9
2018	01-17-2018	7	692.3	803.9		573.7	3230.3			527.8
2018	01-17-2018	8	638.8	747.8		1303.2	3235.9			658.8
2018	01-17-2018	9	635.4	751.1		1428.2	3125.8			754.2
2018	01-17-2018	10	642.9	697.2		1389.3	3091.5			767.6
2018	01-17-2018	11	695	692.1		1392.8	3136.4			748.3
2018	01-17-2018	12	710.1	722.1		1391.4	3119.7			717.9
2018	01-17-2018	13	792.6	825.4		1386.7	3136.9			694.6
2018	01-17-2018	14	753.8	809.3		1378	3232.3			646
2018	01-17-2018	15	833.7	792.3		1374.1	3218.6			640.8
2018	01-17-2018	16	797.7	771.7		1373.3	3221.9			596.3
2018	01-17-2018	17	502.1	567.1		1371.8	3173.8			561.9
2018	01-17-2018	18	300.2	359.1		1308.9	3105.7			541.2
2018	01-17-2018	19	316.4	379.9		1373.7	3200.4			523.7
2018	01-17-2018	20	283	381.2		1368.2	3185.9			538.2
2018	01-17-2018	21	307.6	370.3		1364.3	3147.4			556.9
2018	01-17-2018	22	417.1	483.1		1356.4	3188			619.7
2018	01-17-2018	23	690.9	699.7		1368.7	3175.6			678.2
2018	01-18-2018	0	701.4	705.3		1326	3171.1			693.5
2018	01-18-2018	1	741.5	680.4		1377.7	3171.9			686.5
2018	01-18-2018	2	678.9	676.6		1257	3178.2			682.6
2018	01-18-2018	3	729.6	624.8		1347.2	3160			642.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-18-2018	4	703.8	674		1292	3197.9			555.2
2018	01-18-2018	5	764.2	654.3		1307.4	3182.6			618.5
2018	01-18-2018	6	799.1	712.7		1212.2	3187			710.8
2018	01-18-2018	7	659.2	692.3		1184.8	3180.7			824.1
2018	01-18-2018	8	609.1	637.5		1191.4	3151.1			754
2018	01-18-2018	9	700.4	652.3		1045.9	3127.7			780.9
2018	01-18-2018	10	644.3	668		954	3127.1			760.1
2018	01-18-2018	11	777.4	642.8		946.7	3144.7			791.7
2018	01-18-2018	12	728.4	692.7		958.7	3156.3			739.9
2018	01-18-2018	13	764.4	729.1		525.4	3101.7			705.4
2018	01-18-2018	14	692.4	673		317.6	2971.8			692
2018	01-18-2018	15	738.4	653.9		230.5	2869.6			710.2
2018	01-18-2018	16	645.3	645.2		193	2677.5			616.5
2018	01-18-2018	17	710	635.1		125.4	2620.5			695.3
2018	01-18-2018	18	596.8	633.8		1.1	2932			702.8
2018	01-18-2018	19	661.5	630.9			3084.5			696.7
2018	01-18-2018	20	589.5	638.1			3107.2			688.2
2018	01-18-2018	21	665	630			3124.3			704.6
2018	01-18-2018	22	608.8	637.3			3088.6			644.7
2018	01-18-2018	23	506.7	523.4			2858.2			584.8
2018	01-19-2018	0	417.6	550.5			2583.3			565.1
2018	01-19-2018	1	547.2	599.8			2424.1			557.7
2018	01-19-2018	2	543.9	581.5			2198.6			521.2
2018	01-19-2018	3	580.6	577.6			2014.9			543.2
2018	01-19-2018	4	485.3	536.8			1876.7			564.4
2018	01-19-2018	5	583.8	587			2118.6			693.5
2018	01-19-2018	6	628.4	568.3			2365.9			761.4
2018	01-19-2018	7	598.7	571.5			2723.6			831.5
2018	01-19-2018	8	536.7	578.8		0	3011.4			895.6
2018	01-19-2018	9	583.6	583.1		0	2898.4			810.2
2018	01-19-2018	10	414.9	520.4		0	2297.4			736.7
2018	01-19-2018	11	357.9	361		0	1754.5			703.9
2018	01-19-2018	12	159.7	213.8		0	812.9			289.296
2018	01-19-2018	13	126.2	147.9		0	164.3			
2018	01-19-2018	14	65.8	125.2		0				
2018	01-19-2018	15	80.4	99.3		0				
2018	01-19-2018	16	57.2	88.8		0				
2018	01-19-2018	17	84.2	99.8		0				
2018	01-19-2018	18	109.7	128.9		0				
2018	01-19-2018	19	164.4	162.3		0				
2018	01-19-2018	20	114.4	159.9		0				
2018	01-19-2018	21	134.2	139.6		0				
2018	01-19-2018	22	71.1	90.6		0				
2018	01-19-2018	23	79.9	135.608		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-20-2018	0	45.8			0				
2018	01-20-2018	1	59.1			0				
2018	01-20-2018	2	55.2			0				
2018	01-20-2018	3	90.4			0				
2018	01-20-2018	4	101.7			0				
2018	01-20-2018	5	106.3			0				
2018	01-20-2018	6	161.1			0				
2018	01-20-2018	7	103.3			0				
2018	01-20-2018	8	87.3			0				
2018	01-20-2018	9	74.3							
2018	01-20-2018	10	50.3							
2018	01-20-2018	11	81.4							
2018	01-20-2018	12	56							
2018	01-20-2018	13	72.9							
2018	01-20-2018	14	114.2							
2018	01-20-2018	15	218.3							
2018	01-20-2018	16	186.2							
2018	01-20-2018	17	251.6							
2018	01-20-2018	18	206							
2018	01-20-2018	19	226.9							
2018	01-20-2018	20	174.7							
2018	01-20-2018	21	205.1							
2018	01-20-2018	22	162.5							
2018	01-20-2018	23	197.4							
2018	01-21-2018	0	161.5							
2018	01-21-2018	1	198.3							
2018	01-21-2018	2	157.2							
2018	01-21-2018	3	195.2							
2018	01-21-2018	4	162.4							
2018	01-21-2018	5	199.7							
2018	01-21-2018	6	213.6							
2018	01-21-2018	7	210.5							
2018	01-21-2018	8	167.9							
2018	01-21-2018	9	203.1							
2018	01-21-2018	10	170.4							
2018	01-21-2018	11	244.7							
2018	01-21-2018	12	209.5							
2018	01-21-2018	13	266.5							
2018	01-21-2018	14	224.7							
2018	01-21-2018	15	253.6		0.001					
2018	01-21-2018	16	221.3		0.023					
2018	01-21-2018	17	269.3		0.034					
2018	01-21-2018	18	196.3		0.044					
2018	01-21-2018	19	223.9		0.045					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-21-2018	20	183.8		0.05					
2018	01-21-2018	21	203.4		0.065					
2018	01-21-2018	22	182.2		0.084					
2018	01-21-2018	23	210.3		0.093					
2018	01-22-2018	0	168		0.084					
2018	01-22-2018	1	214.8		0.081					
2018	01-22-2018	2	174.6		0.078					
2018	01-22-2018	3	218.6		0.077					
2018	01-22-2018	4	192.8		0.078					
2018	01-22-2018	5	222.6		0.078					
2018	01-22-2018	6	218.4		0.079					
2018	01-22-2018	7	189.4		0.079					
2018	01-22-2018	8	157.1		0.079		0			
2018	01-22-2018	9	240.8		0.079		0			
2018	01-22-2018	10	226.4		0.083		0			
2018	01-22-2018	11	248		0.088		57.5			
2018	01-22-2018	12	241.4		0.085		320.3			
2018	01-22-2018	13	251.4		0.085		369.2			
2018	01-22-2018	14	215.1		0.085		411.2			
2018	01-22-2018	15	244.6		0.077		569.1			
2018	01-22-2018	16	209.4		0.079		823.4			
2018	01-22-2018	17	235.5		0.068		1392.4			
2018	01-22-2018	18	213.1		0.039		1694.6			
2018	01-22-2018	19	239.1		0.034		1782.8			
2018	01-22-2018	20	217.5		0.009		1841			
2018	01-22-2018	21	229.4				1838.4			
2018	01-22-2018	22	203.8				1853.9			
2018	01-22-2018	23	216.752				1859.9			
2018	01-23-2018	0					1867.2			
2018	01-23-2018	1					1827.1			
2018	01-23-2018	2					1803			
2018	01-23-2018	3					1849.9			
2018	01-23-2018	4					1842.1			
2018	01-23-2018	5					1843.1			
2018	01-23-2018	6					1889.9			
2018	01-23-2018	7					2101.6			
2018	01-23-2018	8					2432.9			
2018	01-23-2018	9					2573.7			
2018	01-23-2018	10					2806.4			
2018	01-23-2018	11					2945.6			
2018	01-23-2018	12					2948.4			
2018	01-23-2018	13					2938.4			
2018	01-23-2018	14			0.011		2921.5			
2018	01-23-2018	15			0.028		2927.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-23-2018	16			0.043		2913.3			
2018	01-23-2018	17			0.038		2902			
2018	01-23-2018	18			0.036		2830.7			
2018	01-23-2018	19			0.041		2581.8			
2018	01-23-2018	20			0.046		2386.7			
2018	01-23-2018	21			0.059		2153			
2018	01-23-2018	22			0.066		2034.8			
2018	01-23-2018	23			0.073		1855.5			
2018	01-24-2018	0			0.079		1785.7			
2018	01-24-2018	1			0.078		1788.7			
2018	01-24-2018	2			0.067		1787.4			
2018	01-24-2018	3			0.065		1796.9			
2018	01-24-2018	4			0.065		1827.1			
2018	01-24-2018	5			0.065		1849.2			
2018	01-24-2018	6			0.066		1849.6			
2018	01-24-2018	7			0.069		2025.3			
2018	01-24-2018	8			0.068		2554.5			
2018	01-24-2018	9			0.068		2907.9			
2018	01-24-2018	10			0.068		2964.2			
2018	01-24-2018	11			0.068		2968.3			
2018	01-24-2018	12			0.068		2974.4			
2018	01-24-2018	13			0.068		2960.5			
2018	01-24-2018	14			0.068		2972.7			
2018	01-24-2018	15			0.068		3044.9			
2018	01-24-2018	16			0.068		3081.7			
2018	01-24-2018	17			0.065		3108.6			
2018	01-24-2018	18			0.065		3106.3			
2018	01-24-2018	19			0.065		3084.7			
2018	01-24-2018	20			0.069		3026			
2018	01-24-2018	21			0.072		3039.4			
2018	01-24-2018	22			0.072		2924.6			
2018	01-24-2018	23			0.07		2649.6			
2018	01-25-2018	0			0.069					
2018	01-25-2018	1			0.069					
2018	01-25-2018	2			0.069					
2018	01-25-2018	3			0.081					
2018	01-25-2018	4			0.083					
2018	01-25-2018	5			0.084					
2018	01-25-2018	6			0.083					
2018	01-25-2018	7			0.079					
2018	01-25-2018	8			0.088					
2018	01-25-2018	9			0.081					
2018	01-25-2018	10			0.085					
2018	01-25-2018	11			0.084					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-25-2018	12			0.084					
2018	01-25-2018	13			0.084					
2018	01-25-2018	14			0.084					
2018	01-25-2018	15			0.084					
2018	01-25-2018	16			0.084					
2018	01-25-2018	17			0.082					
2018	01-25-2018	18			0.08					
2018	01-25-2018	19			0.081					
2018	01-25-2018	20			0.084					
2018	01-25-2018	21			0.084					
2018	01-25-2018	22			0.084					
2018	01-25-2018	23			0.084					
2018	01-26-2018	0			0.084					
2018	01-26-2018	1			0.084					
2018	01-26-2018	2			0.084					
2018	01-26-2018	3			0.084					
2018	01-26-2018	4			0.084					
2018	01-26-2018	5			0.084					
2018	01-26-2018	6			0.087					
2018	01-26-2018	7			0.046					
2018	01-26-2018	8								
2018	01-26-2018	9								
2018	01-26-2018	10								
2018	01-26-2018	11								
2018	01-26-2018	12								
2018	01-26-2018	13								
2018	01-26-2018	14								
2018	01-26-2018	15								
2018	01-26-2018	16								
2018	01-26-2018	17								
2018	01-26-2018	18								
2018	01-26-2018	19								
2018	01-26-2018	20								
2018	01-26-2018	21								
2018	01-26-2018	22								
2018	01-26-2018	23								
2018	01-27-2018	0								
2018	01-27-2018	1								
2018	01-27-2018	2								
2018	01-27-2018	3								
2018	01-27-2018	4								
2018	01-27-2018	5								
2018	01-27-2018	6								
2018	01-27-2018	7								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-27-2018	8								
2018	01-27-2018	9								
2018	01-27-2018	10								
2018	01-27-2018	11								
2018	01-27-2018	12								
2018	01-27-2018	13								
2018	01-27-2018	14								
2018	01-27-2018	15								
2018	01-27-2018	16								
2018	01-27-2018	17								
2018	01-27-2018	18								
2018	01-27-2018	19								
2018	01-27-2018	20								
2018	01-27-2018	21								
2018	01-27-2018	22								
2018	01-27-2018	23								
2018	01-28-2018	0		4.14						
2018	01-28-2018	1		5.5						
2018	01-28-2018	2		5.4						
2018	01-28-2018	3		4.5						
2018	01-28-2018	4		4.4						
2018	01-28-2018	5		5.3						
2018	01-28-2018	6		4.5						
2018	01-28-2018	7		8						
2018	01-28-2018	8		5.7						
2018	01-28-2018	9		5.6						
2018	01-28-2018	10		7.8						
2018	01-28-2018	11		5.6						
2018	01-28-2018	12		5.6						
2018	01-28-2018	13		5.6						
2018	01-28-2018	14		5.5						
2018	01-28-2018	15		4.9						
2018	01-28-2018	16		15.3						
2018	01-28-2018	17		51.5						
2018	01-28-2018	18		50.4						
2018	01-28-2018	19		106.5						
2018	01-28-2018	20		270.4						
2018	01-28-2018	21		308.7						
2018	01-28-2018	22		447.8						
2018	01-28-2018	23		281.2						
2018	01-29-2018	0		403						
2018	01-29-2018	1		558.2						
2018	01-29-2018	2	2.511	261.8						
2018	01-29-2018	3	0	216.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-29-2018	4	0	154.9						
2018	01-29-2018	5	0	151.7						
2018	01-29-2018	6	0	172.8						
2018	01-29-2018	7	0	265.4						
2018	01-29-2018	8	0	237.7						
2018	01-29-2018	9	0	212.7						
2018	01-29-2018	10	0	402.8		0				
2018	01-29-2018	11	0	570.9		0				
2018	01-29-2018	12	0	454.1		0				
2018	01-29-2018	13	0	333.7		0				
2018	01-29-2018	14	0	280.6		0				
2018	01-29-2018	15	0	273.6		0				
2018	01-29-2018	16	0	325.8		0				
2018	01-29-2018	17	0	329.3		0				
2018	01-29-2018	18	0	391		0				
2018	01-29-2018	19	0	495.5		0				
2018	01-29-2018	20	0	627.9		0				
2018	01-29-2018	21	0	681.7		0				
2018	01-29-2018	22	0	434.4		0				
2018	01-29-2018	23	0	289.7		0				
2018	01-30-2018	0	16.1	249.1		0				
2018	01-30-2018	1	54.7	204.8		0				
2018	01-30-2018	2	111.3	191.3		0				
2018	01-30-2018	3	203.4	195.9		0				
2018	01-30-2018	4	415.3	264.3		0				
2018	01-30-2018	5	328.1	247.3		0				
2018	01-30-2018	6	293.2	580.7		0				
2018	01-30-2018	7	477.2	1467.3		0				
2018	01-30-2018	8	838.1	1053.3		0				
2018	01-30-2018	9	1286.2	1145.6		0				
2018	01-30-2018	10	1691.5	1158.3		0				
2018	01-30-2018	11	1826	1133.5		0				
2018	01-30-2018	12	1862.7	1091.7		0				
2018	01-30-2018	13	1790.8	1043.8		0				
2018	01-30-2018	14	1756.4	979.9		0				
2018	01-30-2018	15	1778.4	957.6		0				
2018	01-30-2018	16	1867.1	934.1		0				
2018	01-30-2018	17	1767	882.5		0				
2018	01-30-2018	18	2147.5	907.4		0				
2018	01-30-2018	19	2287.6	934.8		0				
2018	01-30-2018	20	2407.7	922.8		0				
2018	01-30-2018	21	2351.1	959.5		0				
2018	01-30-2018	22	2144.9	918		0				
2018	01-30-2018	23	2231.5	994.5		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	01-31-2018	0	2215.8	976.4		0				
2018	01-31-2018	1	2257.5	985.8		0				
2018	01-31-2018	2	2215	976.2		0				
2018	01-31-2018	3	2131.2	1005		0				
2018	01-31-2018	4	2195.1	1083.9		0				
2018	01-31-2018	5	2242.4	1085.8		0				
2018	01-31-2018	6	2200.9	1058.9		0				
2018	01-31-2018	7	2141	1114.6		0				
2018	01-31-2018	8	2118.9	1162.3		0				
2018	01-31-2018	9	2181.5	1242.2		0				
2018	01-31-2018	10	2251.5	1222.1		0				
2018	01-31-2018	11	2315.8	1232.9		0				
2018	01-31-2018	12	2275.7	1299.6		0				
2018	01-31-2018	13	1935.4	1255.2		0				
2018	01-31-2018	14	1307.5	919.4		0				
2018	01-31-2018	15	1058.8	838.2		0				
2018	01-31-2018	16	1039.9	845.8		0				
2018	01-31-2018	17	1579	1001		0				
2018	01-31-2018	18	1981.6	1288.2		0				
2018	01-31-2018	19	2155.3	1498.1		0				
2018	01-31-2018	20	1675.1	1374.2		0				
2018	01-31-2018	21	935.4	1021		0				
2018	01-31-2018	22	521.2	739.9		0				
2018	01-31-2018	23	719.072	593.5		0				
2018	02-01-2018	0		432.7		0				
2018	02-01-2018	1		298.4		0				
2018	02-01-2018	2		218.8		0				
2018	02-01-2018	3		226.7		0				
2018	02-01-2018	4		237.3		0				
2018	02-01-2018	5		241.6		0				
2018	02-01-2018	6		257.3		0				
2018	02-01-2018	7		275.4		0				
2018	02-01-2018	8		486.3		0				
2018	02-01-2018	9		763.1		0				
2018	02-01-2018	10		811.3		0				
2018	02-01-2018	11		841.5		0				
2018	02-01-2018	12		833.8		0				
2018	02-01-2018	13		829.5		0				
2018	02-01-2018	14		608.4		0				
2018	02-01-2018	15		312.9		0				
2018	02-01-2018	16		241.7		0				
2018	02-01-2018	17		221.2		0				
2018	02-01-2018	18		191.2		0				
2018	02-01-2018	19		166.8		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-01-2018	20		172.5		0	0			
2018	02-01-2018	21		175.1		0	0			
2018	02-01-2018	22		179.8		0	0			
2018	02-01-2018	23		182.7		0	0			
2018	02-02-2018	0		191.7		0	124.6			
2018	02-02-2018	1		206.8		0	313.3			
2018	02-02-2018	2		211.6		0	294.8			
2018	02-02-2018	3		217.9		0	250.1			
2018	02-02-2018	4		218.9		0	250			
2018	02-02-2018	5		222.1		0	244.7			
2018	02-02-2018	6		249.2		0	274.9			
2018	02-02-2018	7		361.2		0	406.4			
2018	02-02-2018	8		443.1		0	611.2			
2018	02-02-2018	9		413		0	691.2			
2018	02-02-2018	10		162.2		0	1202.2			
2018	02-02-2018	11		54.7		0	1484.4			
2018	02-02-2018	12		19.9		0	1965.1			
2018	02-02-2018	13		16.7		0	2268.3			
2018	02-02-2018	14		15.7		0	2641.7			
2018	02-02-2018	15		15.6		0	2956.7			
2018	02-02-2018	16		22.2		0	3119.4			
2018	02-02-2018	17		79.7		0	3152.7			
2018	02-02-2018	18		168.3		0	3176.5			
2018	02-02-2018	19		123.5		0	3190.5			
2018	02-02-2018	20		108.5		0	3202.4			
2018	02-02-2018	21		171.5		0	3213			
2018	02-02-2018	22		269.4		0	3192.1			
2018	02-02-2018	23		368.2		0	3027.3			
2018	02-03-2018	0		389.6		0	2721.6			
2018	02-03-2018	1		563.1		0	2852.6			
2018	02-03-2018	2		799.5		0	2758.6			
2018	02-03-2018	3		859.6		0	2799.5			
2018	02-03-2018	4		782.6		0	2760.2			
2018	02-03-2018	5		563.5		0	2756.7			
2018	02-03-2018	6		862.7		0	2750.8			
2018	02-03-2018	7		954.8		0	2921.3			
2018	02-03-2018	8		970		0	2835.8			
2018	02-03-2018	9		968.2		0	2685.6			
2018	02-03-2018	10		872.1		0	2554.7			
2018	02-03-2018	11		983.5		0	2282.1			
2018	02-03-2018	12		969.3		0	1996.6			
2018	02-03-2018	13		808.6		0	2112.7			
2018	02-03-2018	14		674.7		0	2137.1			
2018	02-03-2018	15		599.4		0	1906.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-03-2018	16		534.2		0	1887.3			
2018	02-03-2018	17		476.8		0	1883.7			
2018	02-03-2018	18		461.1		0	1881.3			
2018	02-03-2018	19		454.1		0	1874.6			
2018	02-03-2018	20		546.2		0	1855.9			
2018	02-03-2018	21		556.9		0	1846.9			
2018	02-03-2018	22		453		0	1844.6			
2018	02-03-2018	23		395.1		0	1877.9			
2018	02-04-2018	0		297.3		0	1855.3			
2018	02-04-2018	1		237.1		0	1878.5			
2018	02-04-2018	2	0	173.3		0	1908.9			
2018	02-04-2018	3	0	136.6		0	1915.7			
2018	02-04-2018	4	0	111.7		0	1899.7			
2018	02-04-2018	5	0	115.9		0	1900.1			
2018	02-04-2018	6	1.9	110.9		0	1861.5			
2018	02-04-2018	7	0	119.1		0	1858.7			
2018	02-04-2018	8	0	113.9		0	1857.7			
2018	02-04-2018	9	0	112.9		0	1818.1			
2018	02-04-2018	10	0	121.3		0	1843.6			
2018	02-04-2018	11	0	133.8		0	1820.3			
2018	02-04-2018	12	0	152.4		0	1834.1			
2018	02-04-2018	13	0	189.2		0	1848.4			
2018	02-04-2018	14	0	209		0	1853.4			
2018	02-04-2018	15	0	302.5		0	1832.6			
2018	02-04-2018	16	0	307.8		0	1849.1			
2018	02-04-2018	17	0	350.2		0	1864.5			
2018	02-04-2018	18	0	309.8		0	1842.6			
2018	02-04-2018	19	0	240.3		0	1829.4			
2018	02-04-2018	20	46.4	190.9		0	1841			
2018	02-04-2018	21	159.4	148.4		0	1834.6			
2018	02-04-2018	22	141.2	117.9		0	1824			
2018	02-04-2018	23	154.3	107		0	1827.1			
2018	02-05-2018	0	239.3	136.8		0	1835.8			
2018	02-05-2018	1	241.5	139.9		0	1831.9			
2018	02-05-2018	2	72.1	128.5		0	1830			
2018	02-05-2018	3	51.1	137.5		0	1836.9			
2018	02-05-2018	4	30.9	141.4		0	1830			
2018	02-05-2018	5	31.8	94.4		0	1825			
2018	02-05-2018	6	55.5	137.5		0	1839.3			
2018	02-05-2018	7	97.3	207.8		0	1837.4			
2018	02-05-2018	8	87.9	235.6		0	1835			
2018	02-05-2018	9	82.1	215.2		0	1811.3			
2018	02-05-2018	10	82.4	173.6		0	1849.7			
2018	02-05-2018	11	52.4	149.1		0	1855.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-05-2018	12	53.9	132.4		0	1847.5			
2018	02-05-2018	13	26.4	115.5		0	1856.4			
2018	02-05-2018	14	26.5	94.4		0	1836.7			
2018	02-05-2018	15	21.6	96		0	1839.6			
2018	02-05-2018	16	23.5	99.1		0	1847.6			
2018	02-05-2018	17	18.8	94		0	1843.3			
2018	02-05-2018	18	25.3	116.8		0	1944.6			
2018	02-05-2018	19	30.5	159.4		0	1957.2			
2018	02-05-2018	20	47.9	160.9		0	1861.5			
2018	02-05-2018	21	52.9	168.7		0	1850			
2018	02-05-2018	22	59.9	147		0	1232.4			
2018	02-05-2018	23	32.2	127		0	480.5			
2018	02-06-2018	0	35.2	149.3		0				
2018	02-06-2018	1	45	184.1		0				
2018	02-06-2018	2	60.4	313.8		0				
2018	02-06-2018	3	52.1	439.4		0				
2018	02-06-2018	4	62.9	459.3		0				
2018	02-06-2018	5	108.6	714.3		0				
2018	02-06-2018	6	276.2	862.5		0				
2018	02-06-2018	7	726.3	1792		0				
2018	02-06-2018	8	754.6	1488.2		0				
2018	02-06-2018	9	849.8	1789.4		0				
2018	02-06-2018	10	841.8	1559.9		0				
2018	02-06-2018	11	553.3	1864.3		0				
2018	02-06-2018	12	473.3	1245.8		0				
2018	02-06-2018	13	342.8	806.8		0				
2018	02-06-2018	14	231.3	479.7		0				
2018	02-06-2018	15	266.4	542.5		0				
2018	02-06-2018	16	224.6	570.1		0				
2018	02-06-2018	17	278	535.1		0				
2018	02-06-2018	18	294.6	589		0				
2018	02-06-2018	19	505.9	783.5		0				
2018	02-06-2018	20	655.6	1089.9		0				
2018	02-06-2018	21	608.1	1055.6		0				
2018	02-06-2018	22	364.5	976.9		0				
2018	02-06-2018	23	390.7	775.6		0				
2018	02-07-2018	0	223.5	570.3		0				
2018	02-07-2018	1	187.4	467.1		0				
2018	02-07-2018	2	155.8	343.4		0				
2018	02-07-2018	3	202.2	290		0				
2018	02-07-2018	4	173.3	301.4		0				
2018	02-07-2018	5	200.8	196.5		0				
2018	02-07-2018	6	244.8	287.8		0				
2018	02-07-2018	7	217.6	296.7		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-07-2018	8	272.8	369.6		0				
2018	02-07-2018	9	440.6	429		0				
2018	02-07-2018	10	496.4	543.4		0				
2018	02-07-2018	11	692.5	544.6		0				
2018	02-07-2018	12	768.2	713.1		0				
2018	02-07-2018	13	469.2	788.4		0				
2018	02-07-2018	14	390.2	724		0				
2018	02-07-2018	15	299.7	611.2		0				
2018	02-07-2018	16	261.2	554.8		0				
2018	02-07-2018	17	245.5	460.7		0				
2018	02-07-2018	18	221.7	433.7		0				
2018	02-07-2018	19	324.9	741.8		0				
2018	02-07-2018	20	352.1	781.9		0				
2018	02-07-2018	21	394.1	782.8		0				
2018	02-07-2018	22	302.9	602		0				
2018	02-07-2018	23	292.8	515.4		0				
2018	02-08-2018	0	236.7	378.6		0				
2018	02-08-2018	1	201.4	280.9		0				
2018	02-08-2018	2	172.1	263.2		0				
2018	02-08-2018	3	189.3	284		0				
2018	02-08-2018	4	179.4	305.2		0				
2018	02-08-2018	5	212.4	319.6		0				
2018	02-08-2018	6	270.7	380.7		0				
2018	02-08-2018	7	474.9	625.3		0				
2018	02-08-2018	8	884.4	957.7		0				
2018	02-08-2018	9	695.2	760.3		0				
2018	02-08-2018	10	447.8	660.7		0				
2018	02-08-2018	11	427.6	505.7		0				
2018	02-08-2018	12	285.2	358.5		0				
2018	02-08-2018	13	226.1	275.9		0				
2018	02-08-2018	14	141.5	273.2		0				
2018	02-08-2018	15	158.4	255.1		0				
2018	02-08-2018	16	161.3	220.4		0				
2018	02-08-2018	17	222.4	294		0				
2018	02-08-2018	18	256.9	422.2		0				
2018	02-08-2018	19	327.4	569		0				
2018	02-08-2018	20	317.4	641.1		0				
2018	02-08-2018	21	330	637.6		0				
2018	02-08-2018	22	279.3	500.6		0				
2018	02-08-2018	23	264.2	448.1		0				
2018	02-09-2018	0	263.6	303.7		0				
2018	02-09-2018	1	336.9	295.6		0				
2018	02-09-2018	2	365	277.7		0				
2018	02-09-2018	3	495.5	287.3		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-09-2018	4	636	351.5		0				
2018	02-09-2018	5	753.6	294.9		0				
2018	02-09-2018	6	1239.6	432.7		0				
2018	02-09-2018	7	1433.5	796.5		0				
2018	02-09-2018	8	1425	921.9		0				
2018	02-09-2018	9	1369.5	923.8		0				
2018	02-09-2018	10	1097.2	662.2		0				
2018	02-09-2018	11	825	483.9		0				
2018	02-09-2018	12	542.9	431.7		0				
2018	02-09-2018	13	485.6	325.1		0				
2018	02-09-2018	14	373.3	231.6		0				
2018	02-09-2018	15	334.6	273		0				
2018	02-09-2018	16	223.6	276		0				
2018	02-09-2018	17	208	267.1		0				
2018	02-09-2018	18	284.8	298.9		0				
2018	02-09-2018	19	246.8	244.3		0				
2018	02-09-2018	20	223.7	256.3		0				
2018	02-09-2018	21	182.7	255.8		0				
2018	02-09-2018	22	156.2	242.5		0				
2018	02-09-2018	23	173.6	249.5		0				
2018	02-10-2018	0	148.1	247		0				
2018	02-10-2018	1	162.3	54.27		0				
2018	02-10-2018	2	136.3			0				
2018	02-10-2018	3	164.6			0				
2018	02-10-2018	4	137.8			0				
2018	02-10-2018	5	152.8			0				
2018	02-10-2018	6	194.6			0				
2018	02-10-2018	7	190			0				
2018	02-10-2018	8	172.6			0				
2018	02-10-2018	9	295.6			0				
2018	02-10-2018	10	272.1							
2018	02-10-2018	11	360.7							
2018	02-10-2018	12	217.1							
2018	02-10-2018	13	217.7							
2018	02-10-2018	14	154.7							
2018	02-10-2018	15	179.6							
2018	02-10-2018	16	169.5							
2018	02-10-2018	17	260.8							
2018	02-10-2018	18	286.8							
2018	02-10-2018	19	220.6							
2018	02-10-2018	20	126.1							
2018	02-10-2018	21	146.5							
2018	02-10-2018	22	129.8							
2018	02-10-2018	23	147.7							



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-11-2018	0	130.2							
2018	02-11-2018	1	144.7						0.132	
2018	02-11-2018	2	132.2						1	
2018	02-11-2018	3	149.3						4.6	
2018	02-11-2018	4	136.5						3.5	
2018	02-11-2018	5	159.1						9	
2018	02-11-2018	6	167.1						14.4	
2018	02-11-2018	7	154.3						22.1	
2018	02-11-2018	8	119.1						29.8	
2018	02-11-2018	9	196.3						48.3	
2018	02-11-2018	10	169.4						59.7	
2018	02-11-2018	11	206.4						76.9	
2018	02-11-2018	12	181.6						84	
2018	02-11-2018	13	200.7						92.6	
2018	02-11-2018	14	189.3						92.3	
2018	02-11-2018	15	206.5						109.9	
2018	02-11-2018	16	193.2						122.3	
2018	02-11-2018	17	245.2						109.5	
2018	02-11-2018	18	341.2						90.6	
2018	02-11-2018	19	279.1						137	
2018	02-11-2018	20	167.7						179.5	
2018	02-11-2018	21	203.8						288.6	
2018	02-11-2018	22	186.7						435.8	
2018	02-11-2018	23	195.9						642	
2018	02-12-2018	0	191.1						663.8	
2018	02-12-2018	1	202.9						658.5	
2018	02-12-2018	2	178						666.2	
2018	02-12-2018	3	194.3						706.4	
2018	02-12-2018	4	180.3						700.7	0
2018	02-12-2018	5	242						527.5	0
2018	02-12-2018	6	431.1						549.3	2.6
2018	02-12-2018	7	586.2						852.7	1
2018	02-12-2018	8	545						751.1	0.7
2018	02-12-2018	9	527.8						669.7	0
2018	02-12-2018	10	398.4						803	0
2018	02-12-2018	11	306.4						825.5	0
2018	02-12-2018	12	294.7						1047.7	0
2018	02-12-2018	13	280.5						1231.5	0
2018	02-12-2018	14	203.4						2311.9	0
2018	02-12-2018	15	206.7						3293.4	0
2018	02-12-2018	16	179						4347.6	7
2018	02-12-2018	17	200.6						4227.6	37.6
2018	02-12-2018	18	234.6						2607.9	81.5
2018	02-12-2018	19	308.2						1935.2	203.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-12-2018	20	405.4						1522.1	214.9
2018	02-12-2018	21	504.1						1106.8	326.1
2018	02-12-2018	22	307.7						995.3	454.4
2018	02-12-2018	23	197.6						1000	411.9
2018	02-13-2018	0	143.1						1012.2	430.1
2018	02-13-2018	1	144.4						989.1	422.8
2018	02-13-2018	2	140.3						1131.6	536.9
2018	02-13-2018	3	164						1001.5	554.6
2018	02-13-2018	4	146.1						1048.2	555.7
2018	02-13-2018	5	161.5						951	560.7
2018	02-13-2018	6	194.1						1284.3	544.1
2018	02-13-2018	7	195.4						2016.5	558.3
2018	02-13-2018	8	148.6						1634.9	646.3
2018	02-13-2018	9	226.8						1468.8	1072.3
2018	02-13-2018	10	245.4						1474.4	1518.9
2018	02-13-2018	11	267.8						1340.2	1881.4
2018	02-13-2018	12	89.6						1276.9	1191
2018	02-13-2018	13	89.8						1281.8	1289.5
2018	02-13-2018	14	194.9						1358.3	949.9
2018	02-13-2018	15	236.5						1399.7	724.6
2018	02-13-2018	16	201.3						1380.3	731.7
2018	02-13-2018	17	234.1						1274.5	595.7
2018	02-13-2018	18	221						1283.1	605.1
2018	02-13-2018	19	339.3						1139.2	594.8
2018	02-13-2018	20	203.6						1172.1	597.3
2018	02-13-2018	21	179.2						1115.5	586.6
2018	02-13-2018	22	154.9						1136.2	571.8
2018	02-13-2018	23	164.1						1025.9	546.6
2018	02-14-2018	0	151.8						964.2	500.8
2018	02-14-2018	1	173.2						974.7	550.9
2018	02-14-2018	2	174.9						1025.6	578.4
2018	02-14-2018	3	190.6						1051.8	561
2018	02-14-2018	4	167.6						1038.2	583.1
2018	02-14-2018	5	311.9						1109.9	848.1
2018	02-14-2018	6	545.8						1275.3	1256.5
2018	02-14-2018	7	472.6						1236.1	1397.5
2018	02-14-2018	8	436.9						1169.9	1285.1
2018	02-14-2018	9	360.6						1140.2	1212
2018	02-14-2018	10	304.5						1157.4	1212.7
2018	02-14-2018	11	465.7						1116.4	1197.5
2018	02-14-2018	12	454.6						1025.4	1039.3
2018	02-14-2018	13	544.4						1070.3	1067.4
2018	02-14-2018	14	468.1						1119.7	1188.4
2018	02-14-2018	15	374.8						998.1	1134.1

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-14-2018	16	288.7						909.8	786.8
2018	02-14-2018	17	366.1						893	954.7
2018	02-14-2018	18	293.6						862	816.5
2018	02-14-2018	19	248.9						841.9	580.3
2018	02-14-2018	20	252.5						827.7	505.1
2018	02-14-2018	21	263.8						786.7	534.3
2018	02-14-2018	22	258.4						770.8	598.6
2018	02-14-2018	23	248.8						806.4	602.8
2018	02-15-2018	0	220.9						890.7	609.1
2018	02-15-2018	1	242.2						864.3	605.6
2018	02-15-2018	2	247.6						890.3	591
2018	02-15-2018	3	287.3						908.2	571.3
2018	02-15-2018	4	257.8						943	561.1
2018	02-15-2018	5	280.2						966.9	576.6
2018	02-15-2018	6	282.3						1065.2	837.1
2018	02-15-2018	7	216.6						965	1013.8
2018	02-15-2018	8	140						891	1190.8
2018	02-15-2018	9	217.7						878.4	1141.7
2018	02-15-2018	10	192.2						864.7	1130.1
2018	02-15-2018	11	252.3						1358.6	1083.3
2018	02-15-2018	12	238						1022.2	916
2018	02-15-2018	13	240.7						991.7	932
2018	02-15-2018	14	230.6						965.8	993
2018	02-15-2018	15	267.1						917.9	740.5
2018	02-15-2018	16	251.4						863.6	689.9
2018	02-15-2018	17	266.3						844.5	546.1
2018	02-15-2018	18	266.7						806.1	496.8
2018	02-15-2018	19	257.7						772.3	458.1
2018	02-15-2018	20	236.9						772.8	443.6
2018	02-15-2018	21	268						766.8	433.6
2018	02-15-2018	22	260.6						797	430.3
2018	02-15-2018	23	293.1						731.1	433
2018	02-16-2018	0	245.1						76.153	446.3
2018	02-16-2018	1	264.5							445
2018	02-16-2018	2	244.5							459.5
2018	02-16-2018	3	280.3							462
2018	02-16-2018	4	255.2							465.9
2018	02-16-2018	5	280							459.3
2018	02-16-2018	6	466.1							538.1
2018	02-16-2018	7	498.3							559.7
2018	02-16-2018	8	376.5							496.6
2018	02-16-2018	9	344.8							495.2
2018	02-16-2018	10	206.5							496.7
2018	02-16-2018	11	231.7							477.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-16-2018	12	229.3							445.4
2018	02-16-2018	13	234							501
2018	02-16-2018	14	201.5							491.3
2018	02-16-2018	15	238.1			0				512.1
2018	02-16-2018	16	201.7			0				529.4
2018	02-16-2018	17	226.3			0				517.8
2018	02-16-2018	18	198.5			0				473.7
2018	02-16-2018	19	216.6			0				462
2018	02-16-2018	20	197.3			0				441
2018	02-16-2018	21	255.6			0				473.9
2018	02-16-2018	22	222			0				431.1
2018	02-16-2018	23	223.6			0				429.2
2018	02-17-2018	0	223.5			0				426.7
2018	02-17-2018	1	220.8			0				423.3
2018	02-17-2018	2	212.3			0				434.8
2018	02-17-2018	3	224.6			0				438.4
2018	02-17-2018	4	206.8			0				454.7
2018	02-17-2018	5	421.4			0				874.1
2018	02-17-2018	6	710.1			0				1075.1
2018	02-17-2018	7	691.1			0				837
2018	02-17-2018	8	479			0				661.1
2018	02-17-2018	9	520.3			0				669.6
2018	02-17-2018	10	503.2			0				663.6
2018	02-17-2018	11	791.9			0				679.9
2018	02-17-2018	12	847.5			0				678.1
2018	02-17-2018	13	834.7			0				581.6
2018	02-17-2018	14	994.9			0				763.6
2018	02-17-2018	15	1715.6			0				1080.1
2018	02-17-2018	16	1690.3			0				1017.6
2018	02-17-2018	17	1120.3			0				802.6
2018	02-17-2018	18	703.8			0				715.5
2018	02-17-2018	19	748.5			0				705.4
2018	02-17-2018	20	1050.1			0				689
2018	02-17-2018	21	1343.5			0				626.8
2018	02-17-2018	22	919.3			0				637.3
2018	02-17-2018	23	596.9			0				561
2018	02-18-2018	0	373.9			0				452.5
2018	02-18-2018	1	285.9			0				455.6
2018	02-18-2018	2	239.1			0				447.4
2018	02-18-2018	3	277			0				458.7
2018	02-18-2018	4	291.7	0		0				521.4
2018	02-18-2018	5	513.3	0		0				884
2018	02-18-2018	6	841.9	0		0				1057.6
2018	02-18-2018	7	1535.4	0		0				1044.6

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-18-2018	8	1089.9	0		0				893.5
2018	02-18-2018	9	589.1	0		0				627.4
2018	02-18-2018	10	391.9	0		0				486.3
2018	02-18-2018	11	323.3	0		0				510.4
2018	02-18-2018	12	233.9	0		0				492.3
2018	02-18-2018	13	266	0		0				506.1
2018	02-18-2018	14	238	0		0				501.6
2018	02-18-2018	15	256.2	0		0				488.7
2018	02-18-2018	16	245.4	0		0				472.8
2018	02-18-2018	17	496.7	41.4		0				490.3
2018	02-18-2018	18	1330.2	30		0				562.8
2018	02-18-2018	19	1993.8	32.4		0				577.9
2018	02-18-2018	20	1774.8	48.1		0				938.1
2018	02-18-2018	21	1900.3	58.7		0				1122.8
2018	02-18-2018	22	1903	119.4		0				1159.8
2018	02-18-2018	23	1784.3	244.1		0				748.2
2018	02-19-2018	0	1109.8	168.3		0				407.9
2018	02-19-2018	1	1606.3	335.8		0				218.68
2018	02-19-2018	2	1928.1	204.3		0				
2018	02-19-2018	3	1843.9	165.1		0				
2018	02-19-2018	4	1773.4	226.8		0				
2018	02-19-2018	5	1725.4	263.2		0				
2018	02-19-2018	6	1720.9	603.8		0				
2018	02-19-2018	7	1651	906.1		0				
2018	02-19-2018	8	1114.7	928.4						
2018	02-19-2018	9	1148.3	864.1						
2018	02-19-2018	10	798.7	661.9						
2018	02-19-2018	11	790.1	642.8						
2018	02-19-2018	12	726.2	628.6						
2018	02-19-2018	13	708	539.2						
2018	02-19-2018	14	558.6	465.2						
2018	02-19-2018	15	535.1	450.9						
2018	02-19-2018	16	483.5	413.6						
2018	02-19-2018	17	502.8	393.3						
2018	02-19-2018	18	404.3	373						
2018	02-19-2018	19	417.1	280.9						
2018	02-19-2018	20	330.6	192.3						
2018	02-19-2018	21	310.9	146.1						
2018	02-19-2018	22	220.9	127.9						
2018	02-19-2018	23	250.7	125.8						
2018	02-20-2018	0	220.5	142.1						
2018	02-20-2018	1	242.9	162.7						
2018	02-20-2018	2	230.1	175.6						
2018	02-20-2018	3	240.2	188.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-20-2018	4	289.2	264.1						
2018	02-20-2018	5	723	568.5						
2018	02-20-2018	6	1433.3	834.3						
2018	02-20-2018	7	1471.4	1198.8						
2018	02-20-2018	8	901.1	606.5						
2018	02-20-2018	9	778.7	376.8						
2018	02-20-2018	10	565.5	368.4						
2018	02-20-2018	11	529.4	252.6						
2018	02-20-2018	12	460	218.3						
2018	02-20-2018	13	718.9	321.5						
2018	02-20-2018	14	730.7	542.9						
2018	02-20-2018	15	766.5	632						
2018	02-20-2018	16	698.4	586.3						
2018	02-20-2018	17	738.7	597.4						
2018	02-20-2018	18	563.8	515.8						
2018	02-20-2018	19	595.8	514						
2018	02-20-2018	20	500.5	493.1						
2018	02-20-2018	21	338.8	332.4						
2018	02-20-2018	22	341.2	286.2						
2018	02-20-2018	23	444.9	334.6						
2018	02-21-2018	0	422	367						
2018	02-21-2018	1	453.3	349.3						
2018	02-21-2018	2	280.7	232						
2018	02-21-2018	3	234	183						
2018	02-21-2018	4	609.6	479.4						
2018	02-21-2018	5	1316.2	899.9						
2018	02-21-2018	6	1464.4	1638.5						
2018	02-21-2018	7	1393.3	1517.7						
2018	02-21-2018	8	842.4	945.1						
2018	02-21-2018	9	752.1	828.8						
2018	02-21-2018	10	618.4	721.8						
2018	02-21-2018	11	659.3	738.5						
2018	02-21-2018	12	748.5	821						
2018	02-21-2018	13	742.2	748.6						
2018	02-21-2018	14	728	725.5						
2018	02-21-2018	15	643.6	730.8						
2018	02-21-2018	16	660.7	770.4						
2018	02-21-2018	17	657.2	707.3						
2018	02-21-2018	18	792.6	858.4						
2018	02-21-2018	19	901	1092.7						
2018	02-21-2018	20	955.9	1279.4						
2018	02-21-2018	21	855.4	984.7						
2018	02-21-2018	22	615.5	640.1						
2018	02-21-2018	23	425.8	501.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-22-2018	0	277.5	326.8						
2018	02-22-2018	1	184.7	173						
2018	02-22-2018	2	146.8	125.3						
2018	02-22-2018	3	178.7	138.7						
2018	02-22-2018	4	375.5	338.4						
2018	02-22-2018	5	878.8	819.8						
2018	02-22-2018	6	1286.8	1145.8						
2018	02-22-2018	7	1103.3	1020.6						
2018	02-22-2018	8	833.6	806.9						
2018	02-22-2018	9	714	630.7						
2018	02-22-2018	10	632.2	555.4						
2018	02-22-2018	11	600.3	450.6						
2018	02-22-2018	12	498.5	381.7						
2018	02-22-2018	13	452.9	377.1						
2018	02-22-2018	14	373.7	360.7						
2018	02-22-2018	15	357.7	373						
2018	02-22-2018	16	346.3	378						
2018	02-22-2018	17	350	402.3						
2018	02-22-2018	18	413.4	526.1						
2018	02-22-2018	19	660.7	607						
2018	02-22-2018	20	437.8	394.5						
2018	02-22-2018	21	298.5	228.8						
2018	02-22-2018	22	218.7	200.9						
2018	02-22-2018	23	250.8	224.6						
2018	02-23-2018	0	227.1	331.8						
2018	02-23-2018	1	220.5	333.3						
2018	02-23-2018	2	201.9	226.4						
2018	02-23-2018	3	243.7	181						
2018	02-23-2018	4	254	231.6						
2018	02-23-2018	5	628.9	259.1						
2018	02-23-2018	6	1422.2	560.5						
2018	02-23-2018	7	1331.3	1084.6						
2018	02-23-2018	8	775.9	857.1						
2018	02-23-2018	9	617.7	666						
2018	02-23-2018	10	411.2	511.1						
2018	02-23-2018	11	404.1	420.6						
2018	02-23-2018	12	316.2	395.5						
2018	02-23-2018	13	315.4	336.5						
2018	02-23-2018	14	248.7	245.1						
2018	02-23-2018	15	238.7	246						
2018	02-23-2018	16	213.2	235.3						
2018	02-23-2018	17	268.5	238.5						
2018	02-23-2018	18	373.8	280.2						
2018	02-23-2018	19	415.8	312.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-23-2018	20	328.5	293.6						
2018	02-23-2018	21	334.9	275.8						
2018	02-23-2018	22	239.1	217						
2018	02-23-2018	23	280.9	236.4						
2018	02-24-2018	0	250.2	231.7						
2018	02-24-2018	1	262	234.1						
2018	02-24-2018	2	239.2	221.7						
2018	02-24-2018	3	246	226.2						
2018	02-24-2018	4	201.7	224						
2018	02-24-2018	5	217	218.2						
2018	02-24-2018	6	259.9	201.8						
2018	02-24-2018	7	230.7	203.8						
2018	02-24-2018	8	224.4	234.8						
2018	02-24-2018	9	258.7	208.3						
2018	02-24-2018	10	278.6	215.1						
2018	02-24-2018	11	399.4	208.3						
2018	02-24-2018	12	331.5	231.6						
2018	02-24-2018	13	321.8	178.4						
2018	02-24-2018	14	191.8	156.8						
2018	02-24-2018	15	208.7	160.8						
2018	02-24-2018	16	226.3	168.1						
2018	02-24-2018	17	471	355						
2018	02-24-2018	18	600.4	396.8						
2018	02-24-2018	19	494.5	291.1						
2018	02-24-2018	20	344.8	194.1						
2018	02-24-2018	21	374.9	169.4						
2018	02-24-2018	22	258.7	181.9						
2018	02-24-2018	23	244.8	171.6						
2018	02-25-2018	0	232.1	165.2						
2018	02-25-2018	1	237.5	165.9						
2018	02-25-2018	2	226.8	157.7						
2018	02-25-2018	3	246.2	163.5						
2018	02-25-2018	4	232	170.7						
2018	02-25-2018	5	243.2	119.3						
2018	02-25-2018	6	262.2	163.9						
2018	02-25-2018	7	251.3	175.3						
2018	02-25-2018	8	219.3	169.3						
2018	02-25-2018	9	241.1	159.4						
2018	02-25-2018	10	219.6	164.5						
2018	02-25-2018	11	285.8	180.1						
2018	02-25-2018	12	248.4	193.4						
2018	02-25-2018	13	282.8	197.5						
2018	02-25-2018	14	244.9	191.9						
2018	02-25-2018	15	475.7	303.3						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-25-2018	16	404.7	271.7						
2018	02-25-2018	17	323.8	202.2						
2018	02-25-2018	18	369.7	221						
2018	02-25-2018	19	552.2	294						
2018	02-25-2018	20	385.5	259.3						
2018	02-25-2018	21	416.1	223.3						
2018	02-25-2018	22	289	195						
2018	02-25-2018	23	244.8	202.9						
2018	02-26-2018	0	262.1	201.5						
2018	02-26-2018	1	281.7	204						
2018	02-26-2018	2	258.5	201.1						
2018	02-26-2018	3	300.6	212.7						
2018	02-26-2018	4	257	214.5						
2018	02-26-2018	5	295.6	228.7						
2018	02-26-2018	6	618.7	328						
2018	02-26-2018	7	618.1	590						
2018	02-26-2018	8	532.3	412.7						
2018	02-26-2018	9	496.4	293.6						0
2018	02-26-2018	10	508.7	301.4						0
2018	02-26-2018	11	1110.1	576.7						0.5
2018	02-26-2018	12	1071.9	624						0
2018	02-26-2018	13	920.6	581.2						0
2018	02-26-2018	14	713	387.4						0
2018	02-26-2018	15	589.8	373.1						0
2018	02-26-2018	16	733.1	437.8						0
2018	02-26-2018	17	959	671.8						0
2018	02-26-2018	18	1019.5	776.1						0
2018	02-26-2018	19	1010.8	761.1						0
2018	02-26-2018	20	1147.8	740.1						0
2018	02-26-2018	21	1075.3	787.6						0
2018	02-26-2018	22	1071.4	723.5						1.5
2018	02-26-2018	23	885.2	507.6						39.3
2018	02-27-2018	0	656.1	326.5						86.1
2018	02-27-2018	1	485.1	220.8						81.7
2018	02-27-2018	2	435.8	380.7						152.6
2018	02-27-2018	3	498.4	562.6						353.4
2018	02-27-2018	4	509.3	566						528.9
2018	02-27-2018	5	1368.5	483.1						373.2
2018	02-27-2018	6	1830.8	957.6						469.8
2018	02-27-2018	7	1944.8	1334.1						713.4
2018	02-27-2018	8	1893.2	1153.3						813.8
2018	02-27-2018	9	1885.4	864.4						777.6
2018	02-27-2018	10	1863.8	526.9						512.4
2018	02-27-2018	11	1898.2	450						410.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	02-27-2018	12	1897.6	458.9					0	424.9
2018	02-27-2018	13	1720	777.6					0	454.2
2018	02-27-2018	14	1927.4	1290.7					3.6	566.3
2018	02-27-2018	15	1647.6	1702.9					4.8	570.1
2018	02-27-2018	16	1359.1	1734					13.9	562.7
2018	02-27-2018	17	783.7	1344.4					22.5	581
2018	02-27-2018	18	597.2	862.5					29.8	487.1
2018	02-27-2018	19	1083.8	1186.6					33.2	459.9
2018	02-27-2018	20	1824	1839.2					41.1	463.1
2018	02-27-2018	21	1672.4	1852.9					55.9	442.3
2018	02-27-2018	22	908.6	985.7					102.9	449.5
2018	02-27-2018	23	590.3	582.7					110.1	465
2018	02-28-2018	0	371	413.8					110.4	466.6
2018	02-28-2018	1	264.9	263.9					110	462.4
2018	02-28-2018	2	214	198.7					103.2	457.7
2018	02-28-2018	3	189.5	218					100.6	462.9
2018	02-28-2018	4	219.5	213.1					92	479.7
2018	02-28-2018	5	728.4	323.5					93.7	525.8
2018	02-28-2018	6	1529.4	342					90	515.4
2018	02-28-2018	7	1767.6	473.8					102.1	469.9
2018	02-28-2018	8	1627.4	319.4					147.5	597.8
2018	02-28-2018	9	1707.9	384.4					186.6	927.6
2018	02-28-2018	10	1679.4	542.9					189.1	1021.4
2018	02-28-2018	11	1766.6	710.4					259.2	1012.2
2018	02-28-2018	12	1757.5	757.3					389.6	1020.9
2018	02-28-2018	13	1778.5	713.7					477.4	972.6
2018	02-28-2018	14	1783	730.4					671.3	598.5
2018	02-28-2018	15	1852.1	1603.3					752.8	667.9
2018	02-28-2018	16	1743.2	1906.9					1123.6	997.9
2018	02-28-2018	17	1751.4	1936.5					1213.4	1073.8
2018	02-28-2018	18	1805.7	1879.6					889.2	995
2018	02-28-2018	19	1475.7	1644.3					757.4	972.3
2018	02-28-2018	20	596.7	739.9					792.2	828.8
2018	02-28-2018	21	425.3	553.6					815.9	615.7
2018	02-28-2018	22	298.3	448.5					853.3	534.4
2018	02-28-2018	23	234.6	327.5					888.6	529.9
2018	03-01-2018	0	200.9	185.8					888.6	558.9
2018	03-01-2018	1	204.8	175.7					906.3	600
2018	03-01-2018	2	193.2	165.2					938.5	607.9
2018	03-01-2018	3	335.4	292.1					957.1	600.1
2018	03-01-2018	4	362.5	314.2					949.9	594.8
2018	03-01-2018	5	437.1	387.7					936.1	569
2018	03-01-2018	6	766.5	750.6					934.3	587
2018	03-01-2018	7	740.3	721.4					886.6	762.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-01-2018	8	470.3	446.2					896.6	786.7
2018	03-01-2018	9	448.6	450.7					835.4	775.8
2018	03-01-2018	10	396.3	390.1					811.3	744.4
2018	03-01-2018	11	349.8	311.5					768.5	712.9
2018	03-01-2018	12	273.8	243.5					789.5	679.3
2018	03-01-2018	13	332.8	316.2					841.6	655
2018	03-01-2018	14	571.2	575.3					829.5	661.6
2018	03-01-2018	15	672.6	560.1					752.8	696.2
2018	03-01-2018	16	621.6	618.2					742	708.4
2018	03-01-2018	17	695.9	669.8					733.8	553.2
2018	03-01-2018	18	710.2	814.4					710.6	553
2018	03-01-2018	19	993.1	1112.9					656.4	599.2
2018	03-01-2018	20	696.2	696.2					645.8	622.1
2018	03-01-2018	21	321.6	258.9					643.2	489.2
2018	03-01-2018	22	325.3	126.4					657.2	444.8
2018	03-01-2018	23	11.277	88.1					671.3	452.2
2018	03-02-2018	0		54.4					701.8	470.1
2018	03-02-2018	1		66.4					699.7	484.5
2018	03-02-2018	2		66.5					703.3	483.5
2018	03-02-2018	3		87					698.1	481.2
2018	03-02-2018	4		124.5					696.2	498.3
2018	03-02-2018	5		223.2					688.7	568.2
2018	03-02-2018	6		621.8					730.1	873.7
2018	03-02-2018	7		1347.7					739.5	1022.9
2018	03-02-2018	8		1472.1					734.5	1014.6
2018	03-02-2018	9		1710.4					796.9	863.1
2018	03-02-2018	10		1398.7					704.9	736.6
2018	03-02-2018	11		1210.5					672.8	639.3
2018	03-02-2018	12		1126.7					654.3	632.8
2018	03-02-2018	13		1011.7					666	559.4
2018	03-02-2018	14		740.1					697.3	447.6
2018	03-02-2018	15		591.6					687.6	464.7
2018	03-02-2018	16		373.2					688.1	465.1
2018	03-02-2018	17		329.6					682.7	440.4
2018	03-02-2018	18		325					683.6	501.4
2018	03-02-2018	19		504.8					693.6	502.6
2018	03-02-2018	20		631					689.4	504
2018	03-02-2018	21		865.4					694.3	548
2018	03-02-2018	22		784.3					697	477.3
2018	03-02-2018	23		727.4					661	463.5
2018	03-03-2018	0		655.4					623.3	443.2
2018	03-03-2018	1		742.8					608.8	439.8
2018	03-03-2018	2		812.4					594.4	415.7
2018	03-03-2018	3		785.6					596.6	413.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-03-2018	4		658.9					591.8	393.7
2018	03-03-2018	5		403.2					567.4	385.6
2018	03-03-2018	6		703.9					546.5	390.9
2018	03-03-2018	7		943.9					538.9	384.6
2018	03-03-2018	8		1547.9					562.3	387.6
2018	03-03-2018	9		1469.4					595.6	387.1
2018	03-03-2018	10		1307.3					607.7	415.6
2018	03-03-2018	11		870.2					636	393
2018	03-03-2018	12		588.3					643.5	409.5
2018	03-03-2018	13		465					651.4	410.9
2018	03-03-2018	14		381.3					658.5	417.6
2018	03-03-2018	15		391.5					671.7	432.3
2018	03-03-2018	16		450.1					676.5	444.8
2018	03-03-2018	17		552.1					682.8	445.3
2018	03-03-2018	18		759.5					670.9	465.6
2018	03-03-2018	19		891.3					688.2	462.3
2018	03-03-2018	20		961.8					678.7	450.8
2018	03-03-2018	21		947.5					690.9	445.4
2018	03-03-2018	22		819.6					684.8	462.9
2018	03-03-2018	23		639.9					711.4	465
2018	03-04-2018	0		589.1					719.5	479.5
2018	03-04-2018	1		447.1					694.8	470.9
2018	03-04-2018	2		428.6					682.2	466.8
2018	03-04-2018	3		439.6					682.5	470.8
2018	03-04-2018	4		495.2					658	473.2
2018	03-04-2018	5		499.4					639.6	478.7
2018	03-04-2018	6		607.8					622.4	514.5
2018	03-04-2018	7		926.8					606.1	701.5
2018	03-04-2018	8		1120.1					624.3	838.5
2018	03-04-2018	9		1028					617	630.4
2018	03-04-2018	10		852.4					623.8	478.1
2018	03-04-2018	11		698.9					643.5	398.7
2018	03-04-2018	12		595.9					641	438.1
2018	03-04-2018	13		446					665.1	437.9
2018	03-04-2018	14		386.8					664.9	447.3
2018	03-04-2018	15		378.2					692.1	448.2
2018	03-04-2018	16		368.7					685.1	440.3
2018	03-04-2018	17		516.3					683.6	446.9
2018	03-04-2018	18		709.2					669.2	474.5
2018	03-04-2018	19		747.6					656.2	471.8
2018	03-04-2018	20		907.1					652.3	494
2018	03-04-2018	21		1029					635.6	473
2018	03-04-2018	22		954.3					636	408.3
2018	03-04-2018	23		886.7					635	407.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-05-2018	0		775.3					646.6	407.5
2018	03-05-2018	1	0	536.3					640.9	404.6
2018	03-05-2018	2	0	434.1					647.4	416.1
2018	03-05-2018	3	0	395					652.6	439.2
2018	03-05-2018	4	0	548.8					660	486.1
2018	03-05-2018	5	0	553.4					644.7	520.2
2018	03-05-2018	6	0	1082.8					687	713.8
2018	03-05-2018	7	0	1661.5					879.4	795
2018	03-05-2018	8	0	1879.5					905.5	746.2
2018	03-05-2018	9	0	1895.1					857	642.4
2018	03-05-2018	10	1.9	1701.6					908.2	777.5
2018	03-05-2018	11	9	1837.1					840.6	706.3
2018	03-05-2018	12	13.6	1685					747.1	581.2
2018	03-05-2018	13	37	1404.4					635.1	575.3
2018	03-05-2018	14	16.6	1065.2					644.2	586.8
2018	03-05-2018	15	0	961.4					619.2	591.3
2018	03-05-2018	16	17.6	1036.2					638.8	548.1
2018	03-05-2018	17	66.6	1041.4					635.4	437
2018	03-05-2018	18	134.8	892.3					633.2	473
2018	03-05-2018	19	169.5	840.6					636.2	433.4
2018	03-05-2018	20	548.4	954.6					650	470.1
2018	03-05-2018	21	780.2	1199.5					651.9	463.2
2018	03-05-2018	22	618.4	1366.6					662.6	436.7
2018	03-05-2018	23	646.5	1573					659.7	455.8
2018	03-06-2018	0	669.9	1561					641.8	416.6
2018	03-06-2018	1	804.3	1535.5					650.6	421.2
2018	03-06-2018	2	626.2	1353.7					640.1	413.7
2018	03-06-2018	3	638.4	1213.7					662.7	412.1
2018	03-06-2018	4	416.6	1052.9					637.4	404.8
2018	03-06-2018	5	570.8	995.9					630.1	432.5
2018	03-06-2018	6	804.8	1213.8					1036.6	903.6
2018	03-06-2018	7	1122.7	2112.4					1093.3	979.9
2018	03-06-2018	8	1599.3	2128.2					989.6	948.6
2018	03-06-2018	9	1991.4	2173.1					848.7	710.9
2018	03-06-2018	10	2238	2137.4					881.2	784.9
2018	03-06-2018	11	2040	1991.3					843.4	765.4
2018	03-06-2018	12	1723.7	1936.9					838.4	842.1
2018	03-06-2018	13	2109.5	1834.6	0.003				827	960.1
2018	03-06-2018	14	1671.2	1925.4	0.014				812.9	722.2
2018	03-06-2018	15	2030.7	1846.9	0.033				907.4	898.1
2018	03-06-2018	16	1840.9	1721.1	0.034				817.7	688.7
2018	03-06-2018	17	1837.8	1914.9	0.04				895.4	765.7
2018	03-06-2018	18	1958.9	1941.3	0.04				952.2	887.7
2018	03-06-2018	19	2141.7	2080.7	0.04				925.2	932.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-06-2018	20	2074.7	2100.9	0.05				912.6	906.5
2018	03-06-2018	21	2024.8	2112.6	0.056				859.7	832.6
2018	03-06-2018	22	1691.2	2148.5	0.059				834.1	689.3
2018	03-06-2018	23	1426.1	1771.9	0.06				780.4	507.5
2018	03-07-2018	0	1327.8	1809.6	0.06				649.5	430
2018	03-07-2018	1	1076.2	1316.3	0.065				708.4	424.9
2018	03-07-2018	2	782.2	938.3	0.068				640.6	424.1
2018	03-07-2018	3	762.1	922.2	0.079				655	429.8
2018	03-07-2018	4	775.8	1087.8	0.082				692.7	474.4
2018	03-07-2018	5	1240.4	1269.5	0.082				649.6	595.4
2018	03-07-2018	6	2051.4	1889.8	0.079				806.4	983
2018	03-07-2018	7	2286.5	2165.7	0.075				927.4	965.9
2018	03-07-2018	8	2126.5	2276.7	0.076				859.2	921
2018	03-07-2018	9	2314.6	2279	0.078				822.3	889.4
2018	03-07-2018	10	2114.4	2199	0.077				835.4	792.2
2018	03-07-2018	11	2182.5	2184.9	0.076				889.1	852.9
2018	03-07-2018	12	2090.4	2411.8	0.076				951.8	818.8
2018	03-07-2018	13	2463.4	2574	0.076				882.9	860.6
2018	03-07-2018	14	1845.2	2027.8	0.076				826.2	850.5
2018	03-07-2018	15	1551.6	1723.7	0.075				821	846.6
2018	03-07-2018	16	891.9	1291.4	0.075				830	844.1
2018	03-07-2018	17	1073.5	1250.3	0.076				831.7	843.8
2018	03-07-2018	18	1011.8	1370.6	0.076				880	885.2
2018	03-07-2018	19	1399.8	1636.3	0.075				886.1	849.3
2018	03-07-2018	20	1024.1	1531.3	0.074				862	871.9
2018	03-07-2018	21	1170.1	1552.4	0.075				681.2	867.8
2018	03-07-2018	22	1061.1	1516.7	0.074				624.1	800.2
2018	03-07-2018	23	827.4	1374	0.074				637.9	545.2
2018	03-08-2018	0	553.1	1127.1	0.074				623.3	492
2018	03-08-2018	1	489.3	911.1	0.074				620.3	507.7
2018	03-08-2018	2	383.3	630.2	0.074				617.9	507.9
2018	03-08-2018	3	390.7	567.8	0.074				610.6	532.3
2018	03-08-2018	4	568.4	606.8	0.074				584.4	526.9
2018	03-08-2018	5	1036.2	881.2	0.074				776.9	607.6
2018	03-08-2018	6	1966.4	1882.5	0.074				1052.1	915.4
2018	03-08-2018	7	2365.4	2274.2	0.074				1127.8	1051.9
2018	03-08-2018	8	1645.6	1942.7	0.074				1091.2	1004.6
2018	03-08-2018	9	1356.6	1543.5	0.074				991.8	913.1
2018	03-08-2018	10	1246.9	1049	0.074				922.6	626.9
2018	03-08-2018	11	2145.3	626	0.074				925.2	528.1
2018	03-08-2018	12	2431.4	655.2	0.073				953.7	541.7
2018	03-08-2018	13	2477.2	528.3	0.072				895	504.1
2018	03-08-2018	14	2103.8	494.3	0.073				875.1	496.7
2018	03-08-2018	15	1708.2	323.2	0.073				869.1	487.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-08-2018	16	1546.6	347.4	0.073				877.6	561.3
2018	03-08-2018	17	2128.3	531.5	0.073				882.4	624.8
2018	03-08-2018	18	2201.4	799.4	0.073				874.3	747.2
2018	03-08-2018	19	2674.6	1658.7	0.073				922.7	953.5
2018	03-08-2018	20	1787.5	1525.3	0.073				928.3	1100.5
2018	03-08-2018	21	1287.2	2228.4	0.073				911.5	1027.3
2018	03-08-2018	22	1212.1	2700.7	0.073				924.9	952.3
2018	03-08-2018	23	2047.8	2565.6	0.073				888.9	975.7
2018	03-09-2018	0	1687.4	1800.8	0.073				857.5	744.5
2018	03-09-2018	1	1565.8	1540.5	0.073				691.5	613.2
2018	03-09-2018	2	1231.2	1103.7	0.073				700.1	550.4
2018	03-09-2018	3	1187.2	1030.6	0.073				696.7	538.4
2018	03-09-2018	4	1002.8	904.4	0.073				693.1	572.3
2018	03-09-2018	5	1143.8	891.3	0.073				697.2	664.6
2018	03-09-2018	6	1539.4	1573.8	0.073				885.3	1017.7
2018	03-09-2018	7	1898.9	2115.1	0.073				1082.7	1056.7
2018	03-09-2018	8	1960.2	2185.2	0.073				1091.8	942.2
2018	03-09-2018	9	1908.7	2273.1	0.073				1120.5	993.6
2018	03-09-2018	10	1991.6	2448.3	0.072				1251.3	1025.9
2018	03-09-2018	11	1930.9	2292.3	0.072				1161.3	987.4
2018	03-09-2018	12	1810.5	1804.1	0.072				1014.2	854.3
2018	03-09-2018	13	1670.2	1473.9	0.072				999.1	755.7
2018	03-09-2018	14	1668.2	1269.6	0.072				985.1	697.7
2018	03-09-2018	15	1095.4	1038.8	0.072				989.7	560.5
2018	03-09-2018	16	763.1	728.5	0.072				979.4	519.7
2018	03-09-2018	17	814.5	819.5	0.072				963.3	537.3
2018	03-09-2018	18	641.7	952.6	0.071				1034.3	567.9
2018	03-09-2018	19	846.8	1274.8	0.071				1029.3	748.4
2018	03-09-2018	20	1034.7	1501.4	0.071				1035.6	911.8
2018	03-09-2018	21	1305.7	1646.6	0.071				984.2	847.4
2018	03-09-2018	22	1413	2223.4	0.071				1058.4	957.8
2018	03-09-2018	23	1264.9	1737	0.071				1046.4	780.4
2018	03-10-2018	0	904.2	1501.9	0.071				798.4	705.8
2018	03-10-2018	1	910.7	1317.9	0.072				716.1	709.1
2018	03-10-2018	2	669	1026.2	0.073				705.2	664.6
2018	03-10-2018	3	736.2	936	0.074				675.7	589.9
2018	03-10-2018	4	668.3	996.9	0.075				683.7	590
2018	03-10-2018	5	878.5	966.7	0.075				761.4	653
2018	03-10-2018	6	1149	1117.4	0.077				857.3	879
2018	03-10-2018	7	1390.7	1606.4	0.078				1139	1001
2018	03-10-2018	8	1406.4	1661.5	0.078				1133.6	992.9
2018	03-10-2018	9	1588.9	2122.1	0.079				1112.4	979.2
2018	03-10-2018	10	1488	2009.7	0.078				1105.3	1018.9
2018	03-10-2018	11	1553.6	1437.1	0.077				939.3	812.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-10-2018	12	1173.9	1111.2	0.077				895.2	576.7
2018	03-10-2018	13	1096.6	936.7	0.077				893.9	505
2018	03-10-2018	14	698.9	804.4	0.077				900.6	510.4
2018	03-10-2018	15	792.4	746.7	0.077				903.7	503.8
2018	03-10-2018	16	640.8	754	0.076				890.4	494.4
2018	03-10-2018	17	733.1	746.3	0.076				900.3	496.4
2018	03-10-2018	18	694.2	773.1	0.076				915.6	518.9
2018	03-10-2018	19	783.6	842.1	0.076				925.4	606.3
2018	03-10-2018	20	672	818.4	0.076				883.9	510.1
2018	03-10-2018	21	820.5	911.9	0.076				840.9	510.4
2018	03-10-2018	22	678.9	956.2	0.076				830.3	590.7
2018	03-10-2018	23	688.3	814.5	0.076				830.4	486.1
2018	03-11-2018	0	498.7	731.3	0.076				837.2	463
2018	03-11-2018	1	486.5	581.4	0.076				854	474.5
2018	03-11-2018	2	372.5	498.1	0.076				850.6	471.6
2018	03-11-2018	3	471.4	486.2	0.076				896.2	474.4
2018	03-11-2018	4	417.9	521.5	0.076				883.4	493.1
2018	03-11-2018	5	588.9	417	0.076				863	695.6
2018	03-11-2018	6	747.3	620.5	0.076				857.7	940.2
2018	03-11-2018	7	721.8	881.9	0.076				849.4	945.5
2018	03-11-2018	8	680.9	1064.4	0.076				834.7	950.4
2018	03-11-2018	9	1150.2	1356.1	0.076				837.1	954.2
2018	03-11-2018	10	990.4	1440.3	0.076				836.4	727.9
2018	03-11-2018	11	1201.1	1505.6	0.076				842.2	529.7
2018	03-11-2018	12	801.4	1213	0.076				856.2	473.4
2018	03-11-2018	13	814.1	949.2	0.076				876.3	473.5
2018	03-11-2018	14	639.2	781.9	0.076				878	477.5
2018	03-11-2018	15	608.3	615	0.076				879.5	493.1
2018	03-11-2018	16	375.2	530.8	0.076				876.3	474.8
2018	03-11-2018	17	429.9	454.3	0.076				700.7	482.3
2018	03-11-2018	18	393	487.2	0.076				710.2	577.2
2018	03-11-2018	19	560	744.4	0.076				971.4	695.1
2018	03-11-2018	20	615.3	889.3	0.076				920.6	857.5
2018	03-11-2018	21	803.8	809.5	0.075				997.1	800.8
2018	03-11-2018	22	488.9	525.7	0.075				691.2	614.3
2018	03-11-2018	23	505.1	441	0.075				640.4	534.1
2018	03-12-2018	0	302.3	412.6	0.071				627	510.8
2018	03-12-2018	1	298.1	348.8	0.071				645.4	514.2
2018	03-12-2018	2	227.3	249.2	0.071				638.3	553.6
2018	03-12-2018	3	336.6	321.3	0.071				695.8	627.9
2018	03-12-2018	4	330.8	482.3	0.071				921.4	837
2018	03-12-2018	5	776.5	632.3	0.071				973.4	950.6
2018	03-12-2018	6	987.4	562.9	0.071				1000.7	976.7
2018	03-12-2018	7	1353.7	901	0.071				1064	972.6



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-12-2018	8	1463.5	2254.5	0.071				1095.2	998.2
2018	03-12-2018	9	1568.9	2297.1	0.071				1150.8	1042.4
2018	03-12-2018	10	1457.1	2244.9	0.071				1366.8	981.6
2018	03-12-2018	11	1505.9	2228.8	0.071				1111.6	927.9
2018	03-12-2018	12	1486.5	2296.1	0.071				1085.7	945.9
2018	03-12-2018	13	1589.6	2218.7	0.071				1034.6	848.3
2018	03-12-2018	14	1573.7	2440.9	0.07				952.7	886.7
2018	03-12-2018	15	1645.4	2389.8	0.07				943.1	923
2018	03-12-2018	16	1523.6	2422.2	0.069				951.7	938.8
2018	03-12-2018	17	1622.6	2563.9	0.069				978.9	962.7
2018	03-12-2018	18	1567.3	2557.1	0.069				974.4	936.2
2018	03-12-2018	19	1616.2	2514.3	0.069				933.7	902.8
2018	03-12-2018	20	1463.5	2423.7	0.069				881.1	878.4
2018	03-12-2018	21	1546.6	2227.6	0.071				820	929.5
2018	03-12-2018	22	1181.5	1411.6	0.07				790.3	791.9
2018	03-12-2018	23	1027.9	1042.3	0.07				796	566
2018	03-13-2018	0	712.4	854.1	0.07				833.6	493.8
2018	03-13-2018	1	700.6	663.8	0.07				863.8	439
2018	03-13-2018	2	511.6	585	0.07				866.5	447.7
2018	03-13-2018	3	1478.6	899.4	0.07				842.8	454.3
2018	03-13-2018	4	1454.8	1986	0.07				909.5	765.3
2018	03-13-2018	5	1444.3	2222.6	0.07				911.6	992.4
2018	03-13-2018	6	1694.5	2065.1	0.07				917.9	980.9
2018	03-13-2018	7	1602.3	2140	0.07				907.3	952.3
2018	03-13-2018	8	1435.1	2145	0.07				890.5	889.6
2018	03-13-2018	9	1505.6	2348.8	0.07				886.9	883.6
2018	03-13-2018	10	1529.5	2327.7	0.07				812.9	841.8
2018	03-13-2018	11	1363.5	2066.6	0.07				877.5	823.6
2018	03-13-2018	12	967.2	1015.6	0.07				814.8	841.8
2018	03-13-2018	13	839.1	692.1	0.07				790.2	808.9
2018	03-13-2018	14	560	456.7	0.07				768.2	785.9
2018	03-13-2018	15	468.8	446.3	0.07				770.1	780.9
2018	03-13-2018	16	323.1	375.1	0.07				792.7	799.6
2018	03-13-2018	17	498.2	425	0.07				799.8	790.2
2018	03-13-2018	18	482.7	452.9	0.07				805.5	841.5
2018	03-13-2018	19	810.3	579.4	0.07				809	843.7
2018	03-13-2018	20	864.5	840.8	0.07				763.8	791.2
2018	03-13-2018	21	1203.9	958.4	0.07				789.6	727.4
2018	03-13-2018	22	881.7	950.6	0.07				724.7	641.7
2018	03-13-2018	23	799.9	848.1	0.07				559.6	421.8
2018	03-14-2018	0	462.5	651	0.07				569.8	415.1
2018	03-14-2018	1	428.6	464.8	0.07				609.5	423.2
2018	03-14-2018	2	334.2	478.1	0.07				597.1	429.4
2018	03-14-2018	3	677.2	913	0.07				602.9	445.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-14-2018	4	1079.8	1760.3	0.07				797.7	714.9
2018	03-14-2018	5	1382.3	1912.5	0.07				985.2	867.1
2018	03-14-2018	6	1110.8	2179.8	0.07				996.2	876.1
2018	03-14-2018	7	1341.1	2243.8	0.07				946	883.3
2018	03-14-2018	8	1408.6	2104.7	0.07				916.2	855.2
2018	03-14-2018	9	1419.7	2105.6	0.07				885.2	846.5
2018	03-14-2018	10	1441.3	1995.5	0.07				868.9	848.8
2018	03-14-2018	11	1525.6	2213.5	0.071				861	838.7
2018	03-14-2018	12	1191.1	2069.3	0.071				741	849.6
2018	03-14-2018	13	748.7	1743.4	0.071				739.1	858.2
2018	03-14-2018	14	466.4	1414.8	0.071				723.6	842.2
2018	03-14-2018	15	495.1	1208.1	0.071				743.1	810.7
2018	03-14-2018	16	453.3	1131	0.071				731.8	795.7
2018	03-14-2018	17	587.5	1220.4	0.071				741.7	823.5
2018	03-14-2018	18	686.9	1807.4	0.071				740.3	900
2018	03-14-2018	19	1378.1	1424	0.071				745	928.7
2018	03-14-2018	20	1300.8	1656.8	0.071				760.9	904.7
2018	03-14-2018	21	1334.7	1715.4	0.071				747.3	824.5
2018	03-14-2018	22	1019.8	1469.8	0.071				675.4	573.3
2018	03-14-2018	23	894.4	972.6	0.071				579.5	438.8
2018	03-15-2018	0	598.5	661.7	0.071				570.2	444.8
2018	03-15-2018	1	627.5	690.7	0.071				562.9	432.1
2018	03-15-2018	2	482.3	797.5	0.072				567.1	433.5
2018	03-15-2018	3	927.6	1145.3	0.072				743	619.4
2018	03-15-2018	4	1313.3	1903.9	0.073				824.6	904.6
2018	03-15-2018	5	1530	1120.7	0.073				923	984
2018	03-15-2018	6	1577.3	1186.8	0.074				920.2	1104
2018	03-15-2018	7	1580.3	1965.1	0.074				930.1	1011.2
2018	03-15-2018	8	1428.4	1994.2	0.074				766.9	918.6
2018	03-15-2018	9	1489.4	1691	0.074				904.1	925
2018	03-15-2018	10	1435.3	1213.9	0.074				885.5	878.5
2018	03-15-2018	11	1536.5	1366.4	0.074				892.4	606.7
2018	03-15-2018	12	927.8	1182.5	0.074				778.6	559
2018	03-15-2018	13	724.5	857.8	0.074				905.6	781.2
2018	03-15-2018	14	531.6	574.3	0.074				870	931.7
2018	03-15-2018	15	442	454.5	0.074				879	934.8
2018	03-15-2018	16	301.9	256.3	0.074				877.7	933.4
2018	03-15-2018	17	301.6	208.8	0.074				880.1	939.8
2018	03-15-2018	18	223.5	209.8	0.074				919.6	906.2
2018	03-15-2018	19	289.3	264.4	0.074				925.9	914.6
2018	03-15-2018	20	216.2	231.8	0.073				854.4	800.6
2018	03-15-2018	21	273.7	194.4	0.072				710.4	519.9
2018	03-15-2018	22	207.9	197.3	0.072				695.4	500.2
2018	03-15-2018	23	283.6	215.2	0.07				690.2	504.7

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-16-2018	0	205.6	197.2	0.07				689.7	495.2
2018	03-16-2018	1	266.1	197.9	0.07				673.3	496.6
2018	03-16-2018	2	215	217.8	0.07				673.7	502
2018	03-16-2018	3	507.4	416.7	0.07				831.5	720.6
2018	03-16-2018	4	752.8	774.4	0.071				920.5	956
2018	03-16-2018	5	1339.6	1490.4	0.071				1092.4	974
2018	03-16-2018	6	1140.8	1412.9	0.071				1146.6	1010
2018	03-16-2018	7	1336.5	1358.5	0.071				1091.4	1022.7
2018	03-16-2018	8	1187.3	1502.8	0.071				1035.5	1009.8
2018	03-16-2018	9	1317.8	1498.9	0.071				964.7	1005.1
2018	03-16-2018	10	742.1	1179.2	0.071				938.8	977.6
2018	03-16-2018	11	695.7	1026	0.071				873.5	925.1
2018	03-16-2018	12	453.3	774.5	0.071				874.8	1014.6
2018	03-16-2018	13	582.3	573.8	0.071				882.2	970.4
2018	03-16-2018	14	590.2	747.4	0.071				874.8	933.2
2018	03-16-2018	15	829	831	0.071				890.3	919.2
2018	03-16-2018	16	710.2	847	0.071				904.3	953.8
2018	03-16-2018	17	831.6	862.4	0.071				963.6	967.4
2018	03-16-2018	18	663.5	832.2	0.071				937.6	960.7
2018	03-16-2018	19	964.9	1092.6	0.071				958.4	947.9
2018	03-16-2018	20	911.7	1263.1	0.071				868.7	948.4
2018	03-16-2018	21	1081.1	1333.1	0.071				632.3	710.8
2018	03-16-2018	22	802.1	980.8	0.071				692.2	524.8
2018	03-16-2018	23	905.6	892.7	0.071				747.9	535.6
2018	03-17-2018	0	663.9	900.9	0.071				716.9	549.3
2018	03-17-2018	1	897.5	1080.6	0.07				734.2	553.7
2018	03-17-2018	2	717.6	1093.2	0.071				789.7	545.2
2018	03-17-2018	3	832.2	1141.7	0.071				869.4	602
2018	03-17-2018	4	684.1	1075.2	0.071				997.9	923.9
2018	03-17-2018	5	1011.1	977.3	0.071				995.5	1150.8
2018	03-17-2018	6	1321	1548.8	0.071				1029.2	1122.3
2018	03-17-2018	7	1331.5	1023.7	0.071				1016.4	1148.3
2018	03-17-2018	8	1054.2	1389.2	0.071				980.2	1128.7
2018	03-17-2018	9	1217.9	1388.8	0.071				967.7	1104.9
2018	03-17-2018	10	1093.1	1361.6	0.071				952.3	1061.5
2018	03-17-2018	11	1222	1392	0.074				927.8	1061.7
2018	03-17-2018	12	1132.6	1424.5	0.074				958.7	1072
2018	03-17-2018	13	1261.1	1425.8	0.073				917	991.7
2018	03-17-2018	14	1070.5	1056.6	0.072				929.9	979.5
2018	03-17-2018	15	821.9	893.3	0.074				912.4	962.1
2018	03-17-2018	16	921.1	1307.9	0.074				893.7	950.6
2018	03-17-2018	17	1250.3	1506	0.074				868.2	950.9
2018	03-17-2018	18	1100.1	1460.4	0.074				878.3	970.1
2018	03-17-2018	19	1316	1429.6	0.074				881.4	948.8

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-17-2018	20	1348.5	1528.8	0.074				725.1	939.3
2018	03-17-2018	21	1480.3	1637.3	0.074				598.1	738.8
2018	03-17-2018	22	878.9	1182.3	0.073				581.7	605.1
2018	03-17-2018	23	726.1	807	0.073				584.6	526.3
2018	03-18-2018	0	582.6	886.3	0.073				578.5	503.4
2018	03-18-2018	1	554.5	690.6	0.073				591.1	504
2018	03-18-2018	2	339.3	491.2	0.073				568.5	483.9
2018	03-18-2018	3	344	393.8	0.073				734.8	833.7
2018	03-18-2018	4	283.6	350.8	0.073				941.6	973.5
2018	03-18-2018	5	401.1	403.8	0.073				955.4	946.1
2018	03-18-2018	6	537.5	534.2	0.073				915.2	927.9
2018	03-18-2018	7	812.1	1456	0.073				899.1	904.5
2018	03-18-2018	8	1123.7	1589.4	0.072				887.4	878.8
2018	03-18-2018	9	1434.6	1303.4	0.072				830.1	867.6
2018	03-18-2018	10	951	1087.6	0.071				830.7	876.9
2018	03-18-2018	11	850.8	924.3	0.071				839.3	912.8
2018	03-18-2018	12	817.4	955.6	0.071				872.1	912.5
2018	03-18-2018	13	698.9	806.9	0.071				896.9	909.8
2018	03-18-2018	14	421.9	626.3	0.07				923.6	909.1
2018	03-18-2018	15	517.7	584.8	0.069				876.5	908.5
2018	03-18-2018	16	451.4	709.8	0.069				879.6	913.7
2018	03-18-2018	17	954.5	1732.6	0.069				871.3	925.4
2018	03-18-2018	18	1120.8	1686.1	0.069				883.7	939.8
2018	03-18-2018	19	1366.1	1395.6	0.069				842.4	955.7
2018	03-18-2018	20	1220.3	1163.3	0.069				634.6	841.7
2018	03-18-2018	21	1384.5	1047.3	0.069				642.8	546.5
2018	03-18-2018	22	974.5	765.7	0.069				621	528.7
2018	03-18-2018	23	702	445.5	0.069				614.6	504.3
2018	03-19-2018	0	587	340.9	0.069				629.5	505.7
2018	03-19-2018	1	764.4	340.1	0.069				607.8	496.4
2018	03-19-2018	2	704.5	422.4	0.069				655.2	484.9
2018	03-19-2018	3	1286.3	1143.7	0.069				873.5	713.8
2018	03-19-2018	4	1182.6	1433.1	0.069				936.8	990.9
2018	03-19-2018	5	1348.2	928.7	0.069				895.9	993
2018	03-19-2018	6	1371.6	1075.5	0.07				903.6	986.3
2018	03-19-2018	7	1420.2	936.8	0.069				925.4	977.6
2018	03-19-2018	8	1252	838.9	0.069				892.5	961.4
2018	03-19-2018	9	1276.3	677.4	0.069				894.5	954
2018	03-19-2018	10	1079.2	657.1	0.069				890.1	941
2018	03-19-2018	11	1078.3	764.3	0.069				890.7	931.2
2018	03-19-2018	12	692	678.2	0.069				885.1	930.9
2018	03-19-2018	13	739.9	577.6	0.068				897.2	888.5
2018	03-19-2018	14	515.7	569.5	0.069				924.2	935
2018	03-19-2018	15	636.3	549.4	0.069				927.7	843.5

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-19-2018	16	835.8	828.1	0.069				931.6	620.6
2018	03-19-2018	17	1138.7	1408.7	0.069				919	519.9
2018	03-19-2018	18	903.2	1259.6	0.069				925.6	532.4
2018	03-19-2018	19	940.3	1052.1	0.07				936.3	547.8
2018	03-19-2018	20	646.9	852.3	0.069				855.4	565.9
2018	03-19-2018	21	532	593.9	0.07				807.8	541.6
2018	03-19-2018	22	363.5	450.8	0.07				530.4	564.6
2018	03-19-2018	23	321.8	340.6	0.07				358.9	569.4
2018	03-20-2018	0	187.3	230	0.07				190.896	578.2
2018	03-20-2018	1	223.6	213.5	0.07					574
2018	03-20-2018	2	175.9	206.5	0.07					558.3
2018	03-20-2018	3	230.4	215.1	0.07					546.5
2018	03-20-2018	4	339.6	375.3	0.07					552.3
2018	03-20-2018	5	527.2	635.2	0.069					573.2
2018	03-20-2018	6	695	687.9	0.07					572.7
2018	03-20-2018	7	736.4	814.7	0.07					615.7
2018	03-20-2018	8	698.3	1285.4	0.07					639.2
2018	03-20-2018	9	1154.2	1068	0.07					770.3
2018	03-20-2018	10	1149.8	1194.2	0.07					887.3
2018	03-20-2018	11	1416.5	1270.2	0.07					1007.5
2018	03-20-2018	12	1200.4	1116.2	0.07					968.5
2018	03-20-2018	13	1371.4	1261.6	0.07					956.8
2018	03-20-2018	14	1398.5	1587.9	0.07					1003.4
2018	03-20-2018	15	1571.3	1333	0.07					1025.1
2018	03-20-2018	16	1407.7	1182.7	0.07					1168.4
2018	03-20-2018	17	1580.2	1071	0.07					1298.1
2018	03-20-2018	18	1272.6	962.5	0.07					1171.5
2018	03-20-2018	19	1435.2	878.3	0.07					1127.5
2018	03-20-2018	20	1292.1	801.6	0.071					1057.7
2018	03-20-2018	21	1322.7	736.5	0.071					1199.9
2018	03-20-2018	22	1131.3	797.7	0.071					1247.3
2018	03-20-2018	23	1182.4	844.5	0.07					965
2018	03-21-2018	0	922.3	848.5	0.07					668.3
2018	03-21-2018	1	1134.2	906.2	0.07					651.4
2018	03-21-2018	2	922.2	935	0.07					614.6
2018	03-21-2018	3	1209.9	1018.2	0.07					612.2
2018	03-21-2018	4	1012.7	1094.5	0.07					617.3
2018	03-21-2018	5	1229.4	770.4	0.07					614.2
2018	03-21-2018	6	1302.5	1059.4	0.07					610.7
2018	03-21-2018	7	1264.7	1092.2	0.072					603
2018	03-21-2018	8	1020.4	1124.5	0.074					596.4
2018	03-21-2018	9	1192.2	1147.5	0.074					610.5
2018	03-21-2018	10	1024.4	1135.6	0.074					501.6
2018	03-21-2018	11	1195	1197.6	0.074					586.2

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-21-2018	12	1018.8	1239.1	0.074					585.5
2018	03-21-2018	13	1214.7	1241.8	0.074					583.8
2018	03-21-2018	14	981.2	1122.3	0.074					580.4
2018	03-21-2018	15	1190.4	1035.2	0.074					592.6
2018	03-21-2018	16	953.8	985.6	0.075					592.5
2018	03-21-2018	17	1185.1	974.7	0.075					584.9
2018	03-21-2018	18	991.6	955.4	0.075					592
2018	03-21-2018	19	1180.5	997.4	0.075					603.5
2018	03-21-2018	20	1013.9	1058.9	0.075					609.7
2018	03-21-2018	21	1229.4	1118.6	0.075					614.6
2018	03-21-2018	22	1036.6	1075.2	0.075					614
2018	03-21-2018	23	1237.1	1025.9	0.075					618.9
2018	03-22-2018	0	862.5	914	0.075					622.1
2018	03-22-2018	1	1046.3	935.2	0.075					634.8
2018	03-22-2018	2	896.8	957.5	0.075					632.9
2018	03-22-2018	3	1243.2	1047.7	0.075					627.5
2018	03-22-2018	4	1016.7	1142.6	0.075					636.3
2018	03-22-2018	5	1276	1182.4	0.075					658.5
2018	03-22-2018	6	1105.6	1234.7	0.075					660.5
2018	03-22-2018	7	1282.3	1329.8	0.075					654.3
2018	03-22-2018	8	1022.7	1364.9	0.075					639.1
2018	03-22-2018	9	1240.7	1233.4	0.075					632.7
2018	03-22-2018	10	1042.2	1100.4	0.075					623.8
2018	03-22-2018	11	1244.4	1016.6	0.075					628.1
2018	03-22-2018	12	920.2	893	0.074					639.2
2018	03-22-2018	13	871.6	781	0.074					647.5
2018	03-22-2018	14	562.7	586.3	0.074					326.134
2018	03-22-2018	15	620.2	530.2	0.074					
2018	03-22-2018	16	657	878.5	0.074					
2018	03-22-2018	17	1025.5	1256.6	0.074					
2018	03-22-2018	18	1010.6	1580.3	0.073					
2018	03-22-2018	19	1330.3	1586.9	0.071					
2018	03-22-2018	20	1169.5	1336.6	0.07	0				
2018	03-22-2018	21	1379.4	1015.3	0.07	0				
2018	03-22-2018	22	1094.5	442.6	0.071	0				
2018	03-22-2018	23	1258.4	45.728	0.018	0				
2018	03-23-2018	0	942.5			0				
2018	03-23-2018	1	1209.7			0				
2018	03-23-2018	2	1014.5			0				
2018	03-23-2018	3	1196.9			0				
2018	03-23-2018	4	893.4			0				
2018	03-23-2018	5	1075.3			0				
2018	03-23-2018	6	1472.6			0				
2018	03-23-2018	7	1080.7			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-23-2018	8	699.9			0				
2018	03-23-2018	9	779.4			0				
2018	03-23-2018	10	596.8			0				
2018	03-23-2018	11	718.9			0				
2018	03-23-2018	12	567.8			0				
2018	03-23-2018	13	889.1			0				
2018	03-23-2018	14	722.7			0				
2018	03-23-2018	15	783.7			0				
2018	03-23-2018	16	550.7			0				
2018	03-23-2018	17	573			0				
2018	03-23-2018	18	340.6			0				
2018	03-23-2018	19	534.7			0				
2018	03-23-2018	20	289.9			0				
2018	03-23-2018	21	277.1			0				
2018	03-23-2018	22	144.3			0				
2018	03-23-2018	23	209.8			0				
2018	03-24-2018	0	147.2			0				
2018	03-24-2018	1	226.2			0				
2018	03-24-2018	2	151.3			0				
2018	03-24-2018	3	232.6			0				
2018	03-24-2018	4	141.4			0				
2018	03-24-2018	5	244.7			0				
2018	03-24-2018	6	245.4			0				
2018	03-24-2018	7	221			0	10.71			
2018	03-24-2018	8	155.6			0	30.9			
2018	03-24-2018	9	249.3			0	3.5			
2018	03-24-2018	10	144.3			0	36.3			
2018	03-24-2018	11	185.1			0	37.9			
2018	03-24-2018	12	120.5			0	0			
2018	03-24-2018	13	183.1			0	23.4			
2018	03-24-2018	14	130.6			0	117.9			
2018	03-24-2018	15	170.4			0	205.3			
2018	03-24-2018	16	120.3			0	174.8			
2018	03-24-2018	17	179.6			0	163.5			
2018	03-24-2018	18	140.4			0	192.7			
2018	03-24-2018	19	269.3			0	247.1			
2018	03-24-2018	20	168.2			0	265.9			
2018	03-24-2018	21	238.2			0	323.1			
2018	03-24-2018	22	144.9			0	416			
2018	03-24-2018	23	240			0	550.7			
2018	03-25-2018	0	148.5			0	949.6			
2018	03-25-2018	1	224.6			0	1012.1			
2018	03-25-2018	2	128.6			0	1106			
2018	03-25-2018	3	216.4			0	1216			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-25-2018	4	138.2			0	1064.9			
2018	03-25-2018	5	201.8			0	1025.6			
2018	03-25-2018	6	199.2			0	1343.5			
2018	03-25-2018	7	275.9			0	1486.1			
2018	03-25-2018	8	630.9			0	2078.6			
2018	03-25-2018	9	714.6			0	2471.3			
2018	03-25-2018	10	421.7			0	2451.9			
2018	03-25-2018	11	388.1			0	2032.2			
2018	03-25-2018	12	190.7			0	1630.5			
2018	03-25-2018	13	206.6			0	1429.3			
2018	03-25-2018	14	150.3			0	1257			
2018	03-25-2018	15	220.9			0	1315.6			
2018	03-25-2018	16	134.6			0	1350.9			
2018	03-25-2018	17	256.6			0	1347.9			
2018	03-25-2018	18	154.1			0	1370.9			
2018	03-25-2018	19	312.9			0	1458.2			
2018	03-25-2018	20	315.8			0	1466.9			
2018	03-25-2018	21	329.4			0	1491.7			
2018	03-25-2018	22	533.6			0	1278.1			
2018	03-25-2018	23	111.7			0	1245.1			
2018	03-26-2018	0				0	1232.7			
2018	03-26-2018	1				0	1218.4			
2018	03-26-2018	2				0	1229.1			
2018	03-26-2018	3				0	1359.4			
2018	03-26-2018	4				0	1724.4			
2018	03-26-2018	5				0	2273.7			
2018	03-26-2018	6				0	2111.8			
2018	03-26-2018	7				0	2461.2			
2018	03-26-2018	8				0	3054.9			
2018	03-26-2018	9				0	2952.5			
2018	03-26-2018	10				0	2963.8			
2018	03-26-2018	11				0	2703.3			
2018	03-26-2018	12				0	957.227			
2018	03-26-2018	13				0				
2018	03-26-2018	14				0				
2018	03-26-2018	15				0				
2018	03-26-2018	16				0				
2018	03-26-2018	17				0				
2018	03-26-2018	18				0	0			
2018	03-26-2018	19				0	263.1			
2018	03-26-2018	20				0	267.5			
2018	03-26-2018	21				0	594.5			
2018	03-26-2018	22				0	993.9			
2018	03-26-2018	23				0	1317.4			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-27-2018	0				0	1263.7			
2018	03-27-2018	1				0	1233.1			
2018	03-27-2018	2				0	1268.4			
2018	03-27-2018	3				0	1356.2			
2018	03-27-2018	4				0	1439.3			
2018	03-27-2018	5				0	1538.9			
2018	03-27-2018	6				0	1538.4			
2018	03-27-2018	7				0	1681			
2018	03-27-2018	8				0	2150.8			
2018	03-27-2018	9					2294.4			
2018	03-27-2018	10					2503			
2018	03-27-2018	11					2596.7			
2018	03-27-2018	12					2529.7			
2018	03-27-2018	13					2158.4			
2018	03-27-2018	14					2416.4			
2018	03-27-2018	15					2714.8			
2018	03-27-2018	16					2928.3			
2018	03-27-2018	17					2761.9			
2018	03-27-2018	18					2761.2			
2018	03-27-2018	19					2873			
2018	03-27-2018	20					2526.4			
2018	03-27-2018	21					2516.6			
2018	03-27-2018	22					1309.2			
2018	03-27-2018	23					87			
2018	03-28-2018	0								
2018	03-28-2018	1								
2018	03-28-2018	2								
2018	03-28-2018	3								
2018	03-28-2018	4								
2018	03-28-2018	5								
2018	03-28-2018	6								
2018	03-28-2018	7								
2018	03-28-2018	8								
2018	03-28-2018	9								
2018	03-28-2018	10								
2018	03-28-2018	11								
2018	03-28-2018	12								
2018	03-28-2018	13								
2018	03-28-2018	14								
2018	03-28-2018	15								
2018	03-28-2018	16								
2018	03-28-2018	17								
2018	03-28-2018	18								
2018	03-28-2018	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-28-2018	20								
2018	03-28-2018	21								
2018	03-28-2018	22								
2018	03-28-2018	23								
2018	03-29-2018	0								
2018	03-29-2018	1								
2018	03-29-2018	2								
2018	03-29-2018	3								
2018	03-29-2018	4								
2018	03-29-2018	5								
2018	03-29-2018	6								
2018	03-29-2018	7								
2018	03-29-2018	8								
2018	03-29-2018	9								
2018	03-29-2018	10								
2018	03-29-2018	11								
2018	03-29-2018	12								
2018	03-29-2018	13								
2018	03-29-2018	14								
2018	03-29-2018	15								
2018	03-29-2018	16								
2018	03-29-2018	17								
2018	03-29-2018	18								
2018	03-29-2018	19								
2018	03-29-2018	20								
2018	03-29-2018	21								
2018	03-29-2018	22								
2018	03-29-2018	23								
2018	03-30-2018	0								
2018	03-30-2018	1								
2018	03-30-2018	2								
2018	03-30-2018	3								
2018	03-30-2018	4								
2018	03-30-2018	5								
2018	03-30-2018	6								
2018	03-30-2018	7								
2018	03-30-2018	8								
2018	03-30-2018	9								
2018	03-30-2018	10								
2018	03-30-2018	11								
2018	03-30-2018	12								
2018	03-30-2018	13								
2018	03-30-2018	14								
2018	03-30-2018	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	03-30-2018	16								
2018	03-30-2018	17								
2018	03-30-2018	18								
2018	03-30-2018	19								
2018	03-30-2018	20								
2018	03-30-2018	21								
2018	03-30-2018	22								
2018	03-30-2018	23								
2018	03-31-2018	0								
2018	03-31-2018	1								
2018	03-31-2018	2								
2018	03-31-2018	3								
2018	03-31-2018	4								
2018	03-31-2018	5								
2018	03-31-2018	6								
2018	03-31-2018	7								
2018	03-31-2018	8								
2018	03-31-2018	9								
2018	03-31-2018	10								
2018	03-31-2018	11								
2018	03-31-2018	12								
2018	03-31-2018	13								
2018	03-31-2018	14								
2018	03-31-2018	15								
2018	03-31-2018	16								
2018	03-31-2018	17								
2018	03-31-2018	18								
2018	03-31-2018	19								
2018	03-31-2018	20								
2018	03-31-2018	21								
2018	03-31-2018	22								
2018	03-31-2018	23								
2018	04-01-2018	0								
2018	04-01-2018	1								
2018	04-01-2018	2								
2018	04-01-2018	3								
2018	04-01-2018	4								
2018	04-01-2018	5								
2018	04-01-2018	6								
2018	04-01-2018	7								
2018	04-01-2018	8								
2018	04-01-2018	9								
2018	04-01-2018	10								
2018	04-01-2018	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-01-2018	12								
2018	04-01-2018	13								
2018	04-01-2018	14								
2018	04-01-2018	15								
2018	04-01-2018	16								
2018	04-01-2018	17								
2018	04-01-2018	18								
2018	04-01-2018	19								
2018	04-01-2018	20								
2018	04-01-2018	21								
2018	04-01-2018	22								
2018	04-01-2018	23								
2018	04-02-2018	0								
2018	04-02-2018	1								
2018	04-02-2018	2								
2018	04-02-2018	3								
2018	04-02-2018	4								
2018	04-02-2018	5								
2018	04-02-2018	6								
2018	04-02-2018	7								
2018	04-02-2018	8								
2018	04-02-2018	9								
2018	04-02-2018	10								
2018	04-02-2018	11								
2018	04-02-2018	12								
2018	04-02-2018	13								
2018	04-02-2018	14								
2018	04-02-2018	15								
2018	04-02-2018	16								
2018	04-02-2018	17								
2018	04-02-2018	18								
2018	04-02-2018	19								
2018	04-02-2018	20								
2018	04-02-2018	21								
2018	04-02-2018	22								
2018	04-02-2018	23								
2018	04-03-2018	0								
2018	04-03-2018	1								
2018	04-03-2018	2								
2018	04-03-2018	3								
2018	04-03-2018	4								
2018	04-03-2018	5								
2018	04-03-2018	6								
2018	04-03-2018	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-03-2018	8								
2018	04-03-2018	9								
2018	04-03-2018	10								
2018	04-03-2018	11								
2018	04-03-2018	12								
2018	04-03-2018	13								
2018	04-03-2018	14								
2018	04-03-2018	15								
2018	04-03-2018	16								
2018	04-03-2018	17								
2018	04-03-2018	18								
2018	04-03-2018	19								
2018	04-03-2018	20								
2018	04-03-2018	21								
2018	04-03-2018	22								
2018	04-03-2018	23								
2018	04-04-2018	0								
2018	04-04-2018	1								
2018	04-04-2018	2								
2018	04-04-2018	3								
2018	04-04-2018	4								
2018	04-04-2018	5								
2018	04-04-2018	6								
2018	04-04-2018	7								
2018	04-04-2018	8								
2018	04-04-2018	9								
2018	04-04-2018	10								
2018	04-04-2018	11								
2018	04-04-2018	12								
2018	04-04-2018	13								
2018	04-04-2018	14								
2018	04-04-2018	15								
2018	04-04-2018	16								
2018	04-04-2018	17								
2018	04-04-2018	18								
2018	04-04-2018	19								
2018	04-04-2018	20								
2018	04-04-2018	21								
2018	04-04-2018	22								
2018	04-04-2018	23								
2018	04-05-2018	0								
2018	04-05-2018	1								
2018	04-05-2018	2								
2018	04-05-2018	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-05-2018	4								
2018	04-05-2018	5								
2018	04-05-2018	6								
2018	04-05-2018	7								
2018	04-05-2018	8								
2018	04-05-2018	9								
2018	04-05-2018	10								
2018	04-05-2018	11								
2018	04-05-2018	12								
2018	04-05-2018	13								
2018	04-05-2018	14								
2018	04-05-2018	15								
2018	04-05-2018	16								
2018	04-05-2018	17								
2018	04-05-2018	18								
2018	04-05-2018	19								
2018	04-05-2018	20								
2018	04-05-2018	21		0						
2018	04-05-2018	22		0						
2018	04-05-2018	23		0						
2018	04-06-2018	0		0						
2018	04-06-2018	1		0						
2018	04-06-2018	2		0						
2018	04-06-2018	3		0						
2018	04-06-2018	4		0						
2018	04-06-2018	5		0						
2018	04-06-2018	6		0						
2018	04-06-2018	7		0						
2018	04-06-2018	8		0						
2018	04-06-2018	9		0						
2018	04-06-2018	10		25.9						
2018	04-06-2018	11		63.3						
2018	04-06-2018	12		63.3						
2018	04-06-2018	13		97.6						
2018	04-06-2018	14		112						
2018	04-06-2018	15		131.6						
2018	04-06-2018	16		150.9						
2018	04-06-2018	17		339.3						
2018	04-06-2018	18		420.3						
2018	04-06-2018	19		322.2						
2018	04-06-2018	20		389						
2018	04-06-2018	21		631.8						
2018	04-06-2018	22		519.8						
2018	04-06-2018	23		411						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-07-2018	0		495.8						
2018	04-07-2018	1		607						
2018	04-07-2018	2		453.9						
2018	04-07-2018	3		652.8						
2018	04-07-2018	4		990.2						
2018	04-07-2018	5		1237.3						
2018	04-07-2018	6		1083.8						
2018	04-07-2018	7		1115.4						
2018	04-07-2018	8		1715						
2018	04-07-2018	9		1712.2						
2018	04-07-2018	10		1543.5						
2018	04-07-2018	11		1457.5						
2018	04-07-2018	12		1383.8						
2018	04-07-2018	13		1241.3						
2018	04-07-2018	14		1005.2						
2018	04-07-2018	15		883.8						
2018	04-07-2018	16		779.3						
2018	04-07-2018	17		907.3						
2018	04-07-2018	18		875.3						
2018	04-07-2018	19		907.4						
2018	04-07-2018	20		1008.5						
2018	04-07-2018	21		1010.4						
2018	04-07-2018	22		989.6						
2018	04-07-2018	23		800.6						
2018	04-08-2018	0		738						
2018	04-08-2018	1		903						
2018	04-08-2018	2		986.4						
2018	04-08-2018	3		938.1						
2018	04-08-2018	4		843.3						
2018	04-08-2018	5		675.8						
2018	04-08-2018	6		984.3						
2018	04-08-2018	7		1205.8						
2018	04-08-2018	8		1151.4						
2018	04-08-2018	9		1203.3						
2018	04-08-2018	10		1273.7						
2018	04-08-2018	11		1278.8						
2018	04-08-2018	12		1005.1						
2018	04-08-2018	13		809.5						
2018	04-08-2018	14		616						
2018	04-08-2018	15		582.2						
2018	04-08-2018	16		678.4						
2018	04-08-2018	17		775.1						
2018	04-08-2018	18		1085.9						
2018	04-08-2018	19		1779.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-08-2018	20		1895.9						
2018	04-08-2018	21		1748.2						
2018	04-08-2018	22		1480.8						
2018	04-08-2018	23		1002.4						
2018	04-09-2018	0		759.1						
2018	04-09-2018	1		562.7						
2018	04-09-2018	2		607.2						
2018	04-09-2018	3		770.4						
2018	04-09-2018	4		1266.2						
2018	04-09-2018	5		1551.2						
2018	04-09-2018	6		2197.1						
2018	04-09-2018	7		1966.7						
2018	04-09-2018	8		1646.5						
2018	04-09-2018	9		1618.8						
2018	04-09-2018	10		1521.6						
2018	04-09-2018	11		1863.6						
2018	04-09-2018	12		1634.3						
2018	04-09-2018	13		1535						
2018	04-09-2018	14		1460.7						
2018	04-09-2018	15		1478.4						
2018	04-09-2018	16		1511.1						
2018	04-09-2018	17		1540.4						
2018	04-09-2018	18		1589.1						
2018	04-09-2018	19		1541.3						
2018	04-09-2018	20		1439.8						
2018	04-09-2018	21		1510.7						
2018	04-09-2018	22		1464.2						
2018	04-09-2018	23		1339						
2018	04-10-2018	0		1228.6						
2018	04-10-2018	1		921.7						
2018	04-10-2018	2		791.1						
2018	04-10-2018	3		969.8						
2018	04-10-2018	4		1360.5						
2018	04-10-2018	5		1106.7						
2018	04-10-2018	6		1645.4						
2018	04-10-2018	7		1696.2						
2018	04-10-2018	8		1539.9						
2018	04-10-2018	9		2075.5						
2018	04-10-2018	10		1886.6						
2018	04-10-2018	11		1550.6						
2018	04-10-2018	12		1530.3						
2018	04-10-2018	13		726.7						
2018	04-10-2018	14		683.4						
2018	04-10-2018	15		917.8						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-10-2018	16		716.5						
2018	04-10-2018	17		693.7						
2018	04-10-2018	18		928.4						
2018	04-10-2018	19		1507.6						
2018	04-10-2018	20		1348.5						
2018	04-10-2018	21		954.2						
2018	04-10-2018	22		663.4						
2018	04-10-2018	23		907.1						
2018	04-11-2018	0		765						
2018	04-11-2018	1		742.1						
2018	04-11-2018	2		620.7						
2018	04-11-2018	3		571.8						
2018	04-11-2018	4		757.3						
2018	04-11-2018	5		1152.7						
2018	04-11-2018	6		1504.8						
2018	04-11-2018	7		1343.1						
2018	04-11-2018	8		840.6						
2018	04-11-2018	9		711.6						
2018	04-11-2018	10		852.7						
2018	04-11-2018	11		879.4						
2018	04-11-2018	12		789.3						
2018	04-11-2018	13		753						
2018	04-11-2018	14		625.3						
2018	04-11-2018	15		503.1						
2018	04-11-2018	16		462.1						
2018	04-11-2018	17		469.3						
2018	04-11-2018	18		391.4						
2018	04-11-2018	19		713.1						
2018	04-11-2018	20		740.4						
2018	04-11-2018	21		383.9						
2018	04-11-2018	22		268						
2018	04-11-2018	23		184.8						
2018	04-12-2018	0		182.3						
2018	04-12-2018	1		180.6						
2018	04-12-2018	2		210.7						
2018	04-12-2018	3		540.5						
2018	04-12-2018	4		642.9						
2018	04-12-2018	5		590.1						
2018	04-12-2018	6		988.7						
2018	04-12-2018	7		1134						
2018	04-12-2018	8		1106.4						
2018	04-12-2018	9		1004.8						
2018	04-12-2018	10		674						
2018	04-12-2018	11		603.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-12-2018	12		572.8						
2018	04-12-2018	13		650.6						
2018	04-12-2018	14		550.3						
2018	04-12-2018	15		763						
2018	04-12-2018	16		913.7						
2018	04-12-2018	17		1110.7						
2018	04-12-2018	18		761.4						
2018	04-12-2018	19		923						
2018	04-12-2018	20		1093						
2018	04-12-2018	21		652.6						
2018	04-12-2018	22		494.1						
2018	04-12-2018	23		350.2						
2018	04-13-2018	0		232.6						
2018	04-13-2018	1		189.6						
2018	04-13-2018	2		202.9						
2018	04-13-2018	3		340.8						
2018	04-13-2018	4		571.4						
2018	04-13-2018	5		821.3						
2018	04-13-2018	6		1267.8						
2018	04-13-2018	7		1541.4						
2018	04-13-2018	8		1026.7						
2018	04-13-2018	9		988.4						
2018	04-13-2018	10		1057.8						
2018	04-13-2018	11		1106.1						
2018	04-13-2018	12		1050.3						
2018	04-13-2018	13		1151.6						
2018	04-13-2018	14		1165.8						
2018	04-13-2018	15		1038.8						
2018	04-13-2018	16		706.7						
2018	04-13-2018	17		786.3						
2018	04-13-2018	18		916.6						
2018	04-13-2018	19		1033						
2018	04-13-2018	20		906						
2018	04-13-2018	21		794.9						
2018	04-13-2018	22		690.2						
2018	04-13-2018	23		591.8						
2018	04-14-2018	0		475.4						
2018	04-14-2018	1		364.3						
2018	04-14-2018	2		247.9						
2018	04-14-2018	3		159.2						
2018	04-14-2018	4		159.2						
2018	04-14-2018	5		165.6						
2018	04-14-2018	6		423.9						
2018	04-14-2018	7		730						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-14-2018	8		657.8						
2018	04-14-2018	9		1126.7						
2018	04-14-2018	10		1269.9						
2018	04-14-2018	11		1423.3						
2018	04-14-2018	12		1408						
2018	04-14-2018	13		1363						
2018	04-14-2018	14		1347						
2018	04-14-2018	15		1403.1						
2018	04-14-2018	16		1320.9						
2018	04-14-2018	17		1103.6						
2018	04-14-2018	18		746.6						
2018	04-14-2018	19		719.4						
2018	04-14-2018	20		785.1						
2018	04-14-2018	21		876.6						
2018	04-14-2018	22		755.4						
2018	04-14-2018	23		509						
2018	04-15-2018	0		351.4						
2018	04-15-2018	1		264.9						
2018	04-15-2018	2		181.6						
2018	04-15-2018	3		135.3						
2018	04-15-2018	4		93.9						
2018	04-15-2018	5		89						
2018	04-15-2018	6		102.6						
2018	04-15-2018	7		182.9						
2018	04-15-2018	8		379.1						
2018	04-15-2018	9		598.2						
2018	04-15-2018	10		836.5						
2018	04-15-2018	11		1338						
2018	04-15-2018	12		1590.5						
2018	04-15-2018	13		1662.9						
2018	04-15-2018	14		1419.8						
2018	04-15-2018	15		1297.5						
2018	04-15-2018	16		1218.2						
2018	04-15-2018	17		998						
2018	04-15-2018	18		722.3						
2018	04-15-2018	19		776.7						
2018	04-15-2018	20		849.9						
2018	04-15-2018	21		733.5						
2018	04-15-2018	22		563.4						
2018	04-15-2018	23		367.7						
2018	04-16-2018	0		284.1						
2018	04-16-2018	1		259.3						
2018	04-16-2018	2		290.2						
2018	04-16-2018	3		281.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-16-2018	4		321.3						
2018	04-16-2018	5		297.3						
2018	04-16-2018	6		492						
2018	04-16-2018	7		553.7						
2018	04-16-2018	8		590.6						
2018	04-16-2018	9		1413						
2018	04-16-2018	10		1478.6						
2018	04-16-2018	11		1610.7						
2018	04-16-2018	12		1578.1						
2018	04-16-2018	13		1017.5						
2018	04-16-2018	14		888.6						
2018	04-16-2018	15		1321.9						
2018	04-16-2018	16		1539.2						
2018	04-16-2018	17		1374.8						
2018	04-16-2018	18		1206.6						
2018	04-16-2018	19		1128.4						
2018	04-16-2018	20		1045						
2018	04-16-2018	21		932.6						
2018	04-16-2018	22		897.5						
2018	04-16-2018	23		836.8						
2018	04-17-2018	0		620.6						
2018	04-17-2018	1		633.2						
2018	04-17-2018	2		542.8						
2018	04-17-2018	3		594.3						
2018	04-17-2018	4		663.3						
2018	04-17-2018	5		972.6						
2018	04-17-2018	6		1109.4						
2018	04-17-2018	7		1220.3						
2018	04-17-2018	8		1084.4						
2018	04-17-2018	9		972.9						
2018	04-17-2018	10		969.6						
2018	04-17-2018	11		1023.7						
2018	04-17-2018	12		1136.2						
2018	04-17-2018	13		1170.9						
2018	04-17-2018	14		1069.8						
2018	04-17-2018	15		1131.5						
2018	04-17-2018	16		1055.6						
2018	04-17-2018	17		964						
2018	04-17-2018	18		837.5						
2018	04-17-2018	19		881						
2018	04-17-2018	20		937						
2018	04-17-2018	21		994.5						
2018	04-17-2018	22		976.4						
2018	04-17-2018	23		1035.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-18-2018	0		1064.8						
2018	04-18-2018	1		927.5						
2018	04-18-2018	2		852.2						
2018	04-18-2018	3		715.6						
2018	04-18-2018	4		607.2						
2018	04-18-2018	5		653.2						
2018	04-18-2018	6		1069.1						
2018	04-18-2018	7		1178.7						
2018	04-18-2018	8		1108.2						
2018	04-18-2018	9		1001.3						
2018	04-18-2018	10		968.6						
2018	04-18-2018	11		1016.2						
2018	04-18-2018	12		1025.8			0			
2018	04-18-2018	13		978.6			0			
2018	04-18-2018	14		1115.1			0			
2018	04-18-2018	15		1226.3			0			
2018	04-18-2018	16		1223.2			0			
2018	04-18-2018	17		1126.1			283.2			
2018	04-18-2018	18		1155			301.2			
2018	04-18-2018	19		1205.2			189			
2018	04-18-2018	20		1194.9			178.7			
2018	04-18-2018	21		1165.2			182.6			
2018	04-18-2018	22		918.3			264.5			
2018	04-18-2018	23		632.1			478.3			
2018	04-19-2018	0		491.6			882.1			
2018	04-19-2018	1		430			1570.8			
2018	04-19-2018	2		274.7			1584.2			
2018	04-19-2018	3		259.2			1548.2			
2018	04-19-2018	4		288			1721.9			
2018	04-19-2018	5		167.7			2094.7			
2018	04-19-2018	6		258.4			2727.5			
2018	04-19-2018	7		361.8			2765.7			
2018	04-19-2018	8		486.8			2906.5			
2018	04-19-2018	9		717.6			2874.4			
2018	04-19-2018	10		783.1			3016.3			
2018	04-19-2018	11		802.5			3194.6			
2018	04-19-2018	12		749.3			3260.1			
2018	04-19-2018	13		584.9			3139.7			
2018	04-19-2018	14		752.1			3036.6			
2018	04-19-2018	15		555.5			2859.3			
2018	04-19-2018	16		565.6			2780.5			
2018	04-19-2018	17		579.6			2767.8			
2018	04-19-2018	18		461.3			2597.1			
2018	04-19-2018	19		510.3			2718			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-19-2018	20		690.6			2962.5			
2018	04-19-2018	21		712			3101.4			
2018	04-19-2018	22		532			2890.3			
2018	04-19-2018	23		578.3			2754.6			
2018	04-20-2018	0		568.5			2669.6			
2018	04-20-2018	1		490.7			2662.3			
2018	04-20-2018	2		585.3			2649.8			
2018	04-20-2018	3		627.1			2657.5			
2018	04-20-2018	4		584.8			2660.5			
2018	04-20-2018	5		468.4			2673.4			
2018	04-20-2018	6		813.6			2883.2			
2018	04-20-2018	7		800.7			2965.4			
2018	04-20-2018	8		690.6			2783.1			
2018	04-20-2018	9		604.6			2505.9			
2018	04-20-2018	10		569.8			2335.1			
2018	04-20-2018	11		518			2194.8			
2018	04-20-2018	12		444.8			2084.3			
2018	04-20-2018	13		445			1872.5			
2018	04-20-2018	14		276.7			1882.6			
2018	04-20-2018	15		290.4			1886			
2018	04-20-2018	16		294.1			1872.2			
2018	04-20-2018	17		292			1904.1			
2018	04-20-2018	18		237.8			1907.3			
2018	04-20-2018	19		295.2			2159.1			
2018	04-20-2018	20		412.5			2488.2			
2018	04-20-2018	21		463.4			2621.7			
2018	04-20-2018	22		409.5			2549.5			
2018	04-20-2018	23		325.9			2288.8			
2018	04-21-2018	0		300.2			2076.8			
2018	04-21-2018	1		319			2119.3			
2018	04-21-2018	2		400.6			2286.8			
2018	04-21-2018	3		528			2497.8			
2018	04-21-2018	4		758.2			2675			
2018	04-21-2018	5		1012.3			2815.4			
2018	04-21-2018	6		979.4	0.023		2893.1			
2018	04-21-2018	7		949.7	0.047		2979.4			
2018	04-21-2018	8		980.9	0.06		2999			
2018	04-21-2018	9		991.1	0.072		2901.9			
2018	04-21-2018	10		915.6	0.081		2694.5			
2018	04-21-2018	11		937.3	0.056		2354.8			
2018	04-21-2018	12		963.1	0.064		1538.6			
2018	04-21-2018	13		945.9	0.054		216.76			
2018	04-21-2018	14		806.8	0.051					
2018	04-21-2018	15		831.1	0.051					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-21-2018	16		883.3	0.051					
2018	04-21-2018	17		645	0.051					
2018	04-21-2018	18		535.4	0.052					
2018	04-21-2018	19		778.6	0.052					
2018	04-21-2018	20		946.5	0.052					
2018	04-21-2018	21		905.7	0.052					
2018	04-21-2018	22		704	0.032					
2018	04-21-2018	23		547.9						
2018	04-22-2018	0		388.5						
2018	04-22-2018	1		305.6						
2018	04-22-2018	2		251.1						
2018	04-22-2018	3		259.8						
2018	04-22-2018	4		209.4						
2018	04-22-2018	5		149.1						
2018	04-22-2018	6		182.9						
2018	04-22-2018	7		508.6						
2018	04-22-2018	8		622.9						
2018	04-22-2018	9		682.8						
2018	04-22-2018	10		560.7						
2018	04-22-2018	11		522.9						
2018	04-22-2018	12		480.7						
2018	04-22-2018	13		599.4						
2018	04-22-2018	14		679.9						
2018	04-22-2018	15		649.6						
2018	04-22-2018	16		618.1						
2018	04-22-2018	17		512.5						
2018	04-22-2018	18		458.3						
2018	04-22-2018	19		495.1						
2018	04-22-2018	20		453.6						
2018	04-22-2018	21		374						
2018	04-22-2018	22		295.7						
2018	04-22-2018	23		189.8						
2018	04-23-2018	0		201.9						
2018	04-23-2018	1		206.7						
2018	04-23-2018	2		211						
2018	04-23-2018	3		399.6						
2018	04-23-2018	4		626.9						
2018	04-23-2018	5		685.2						
2018	04-23-2018	6		800.3						
2018	04-23-2018	7		642.9						
2018	04-23-2018	8		1085.7						
2018	04-23-2018	9		1437.1						
2018	04-23-2018	10		1465.5						
2018	04-23-2018	11		1636.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-23-2018	12		1385.7						
2018	04-23-2018	13		1399						
2018	04-23-2018	14		1333.5						
2018	04-23-2018	15		1680.3						
2018	04-23-2018	16		1708						
2018	04-23-2018	17		1609.4						
2018	04-23-2018	18		1422.6						
2018	04-23-2018	19		1323.7						
2018	04-23-2018	20		1032.8						
2018	04-23-2018	21		867.8						
2018	04-23-2018	22		706.5						
2018	04-23-2018	23		579.3						
2018	04-24-2018	0		283.4						
2018	04-24-2018	1		123.4						
2018	04-24-2018	2		104.3						
2018	04-24-2018	3		283.2						
2018	04-24-2018	4		539.2						
2018	04-24-2018	5		540.9						
2018	04-24-2018	6	12.052	880.1						
2018	04-24-2018	7	11.7	1024.6						
2018	04-24-2018	8	11.8	1451						
2018	04-24-2018	9	11.2	1738.3						
2018	04-24-2018	10	9.711	1584.2						
2018	04-24-2018	11	11.7	1637.1						
2018	04-24-2018	12	11.8	1451.4						
2018	04-24-2018	13	11	1200.7						
2018	04-24-2018	14	13.9	1245.7						
2018	04-24-2018	15	18.6	1567.6						
2018	04-24-2018	16	20.7	1837.2						
2018	04-24-2018	17	21.8	1755.2						
2018	04-24-2018	18	23	1522						
2018	04-24-2018	19	26	1295.9						
2018	04-24-2018	20	27.1	1006.6						
2018	04-24-2018	21	28.1	1110.3						
2018	04-24-2018	22	28.2	1218.4						
2018	04-24-2018	23	28.2	1156.8						
2018	04-25-2018	0	29.2	961.7						
2018	04-25-2018	1	42.3	704.1						
2018	04-25-2018	2	43.9	507.2						
2018	04-25-2018	3	38.6	673.2						
2018	04-25-2018	4	49.3	1110						
2018	04-25-2018	5	51.2	1725.2						
2018	04-25-2018	6	45.9	1747.5						
2018	04-25-2018	7	37.4	1412.7						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-25-2018	8	36.1	1137.9						
2018	04-25-2018	9	36.2	1123.9						
2018	04-25-2018	10	41.4	1096.2						
2018	04-25-2018	11	41	1142.4						
2018	04-25-2018	12	46.3	1277.6						
2018	04-25-2018	13	91.2	1122.1						
2018	04-25-2018	14	109.1	946.8						
2018	04-25-2018	15	196.4	814.1						
2018	04-25-2018	16	593.4	1049						
2018	04-25-2018	17	878.8	1067.5						
2018	04-25-2018	18	644.5	838						
2018	04-25-2018	19	964.2	730.3						
2018	04-25-2018	20	1560	768.9						
2018	04-25-2018	21	686.9	717.2						
2018	04-25-2018	22	337.6	674.2						
2018	04-25-2018	23	141.8	544.3						
2018	04-26-2018	0	132.3	446.2						
2018	04-26-2018	1	104.7	283						
2018	04-26-2018	2	103.3	249.5						
2018	04-26-2018	3	143.4	302.8						
2018	04-26-2018	4	236.7	364.6						
2018	04-26-2018	5	253	338.9						
2018	04-26-2018	6	300.5	525.4						
2018	04-26-2018	7	268.2	592						
2018	04-26-2018	8	263.1	600.6						
2018	04-26-2018	9	266.8	606.9						
2018	04-26-2018	10	250.7	522.7						
2018	04-26-2018	11	281.9	664.3						
2018	04-26-2018	12	353	811.2						
2018	04-26-2018	13	370.4	892.7						
2018	04-26-2018	14	340.8	987.7						
2018	04-26-2018	15	803.5	1130.4						
2018	04-26-2018	16	1159.2	1334.9						
2018	04-26-2018	17	1136.6	1353						
2018	04-26-2018	18	805.4	1117.4						
2018	04-26-2018	19	701.8	1016.6						
2018	04-26-2018	20	807.7	1082.8						
2018	04-26-2018	21	807.4	1119.6						
2018	04-26-2018	22	843.6	1175						
2018	04-26-2018	23	723.6	1001.5						
2018	04-27-2018	0	592	794.3						
2018	04-27-2018	1	482.8	641						
2018	04-27-2018	2	356	415.8						
2018	04-27-2018	3	361.7	544						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-27-2018	4	715.9	882.1						
2018	04-27-2018	5	949.5	1000.5						
2018	04-27-2018	6	1023.6	996.4						
2018	04-27-2018	7	1040.5	1101.5						
2018	04-27-2018	8	944.7	1059.7						
2018	04-27-2018	9	1132.6	1152.2						
2018	04-27-2018	10	1360.4	1304.7						
2018	04-27-2018	11	1427.2	1385.4						
2018	04-27-2018	12	1395.5	1414.1						
2018	04-27-2018	13	1603.2	1532.4						
2018	04-27-2018	14	1492.1	1565.4						
2018	04-27-2018	15	1711.1	1646.3						
2018	04-27-2018	16	1188.3	1713.4						
2018	04-27-2018	17	853.3	1233.7						
2018	04-27-2018	18	519	794.5						
2018	04-27-2018	19	540.8	825.9						
2018	04-27-2018	20	521.2	853.8						
2018	04-27-2018	21	410.9	635.7						
2018	04-27-2018	22	307.9	421.6						
2018	04-27-2018	23	302.1	342.5						
2018	04-28-2018	0	333.5	257.1						
2018	04-28-2018	1	321.6	265.7						
2018	04-28-2018	2	294.3	263.9						
2018	04-28-2018	3	294.9	254.5						
2018	04-28-2018	4	385	326						
2018	04-28-2018	5	634.7	474.9						
2018	04-28-2018	6	792.5	695						
2018	04-28-2018	7	669.3	710.2						
2018	04-28-2018	8	728.4	820.9						
2018	04-28-2018	9	821.9	981.5						
2018	04-28-2018	10	792.7	923.6						
2018	04-28-2018	11	783.9	966.6						
2018	04-28-2018	12	1050.3	1216.4						
2018	04-28-2018	13	1094.6	1352.1						
2018	04-28-2018	14	999.3	1489.1						
2018	04-28-2018	15	935.4	1457.9						
2018	04-28-2018	16	946.2	1721.3						
2018	04-28-2018	17	973.7	1775.1						
2018	04-28-2018	18	708.2	1284.3						
2018	04-28-2018	19	675.8	1078.3						
2018	04-28-2018	20	869	1445						
2018	04-28-2018	21	845.4	1210.4						
2018	04-28-2018	22	898.3	1350.1						
2018	04-28-2018	23	935.4	1502.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-29-2018	0	854.4	1330.8						
2018	04-29-2018	1	818.8	1269.1						
2018	04-29-2018	2	705.8	1041.9						
2018	04-29-2018	3	716.4	1037.3	0.008					
2018	04-29-2018	4	811.7	1116.6	0.038					
2018	04-29-2018	5	673.6	847.3	0.038					
2018	04-29-2018	6	1005.5	1186.3	0.056					
2018	04-29-2018	7	873	1200.9	0.068					
2018	04-29-2018	8	994.2	1403.3	0.079					
2018	04-29-2018	9	1139.3	1580.4	0.086					
2018	04-29-2018	10	1378.6	1726	0.074		0			
2018	04-29-2018	11	1531.4	1839.8	0.077		0			
2018	04-29-2018	12	1104.1	1668.6	0.077		0			
2018	04-29-2018	13	1184.1	1681.4	0.076		23.94			
2018	04-29-2018	14	1211	1659.6	0.076		241.1			
2018	04-29-2018	15	1065.4	1616.2	0.076		227.1			
2018	04-29-2018	16	877.3	1536.3	0.076		152.1			
2018	04-29-2018	17	873	1410.9	0.076		160.5			
2018	04-29-2018	18	885.3	1241.7	0.073		170.1			
2018	04-29-2018	19	1113.1	1448.1	0.072		290.6			
2018	04-29-2018	20	1405	1761.7	0.073		361.1			
2018	04-29-2018	21	1196.2	1688.4	0.073		513.6			
2018	04-29-2018	22	814	1287.3	0.072		810.1			
2018	04-29-2018	23	595.9	1097.3	0.068		1402.4			
2018	04-30-2018	0	864.2	1530.9	0.05		1753			
2018	04-30-2018	1	1207.1	1528.2	0.041		1668.6			
2018	04-30-2018	2	1387.9	1606.9	0.042		1493.1			
2018	04-30-2018	3	975.4	1052.9	0.044		1781.3			
2018	04-30-2018	4	656	760.5	0.046		2255.9			
2018	04-30-2018	5	654.5	544.9	0.047		2775.9			
2018	04-30-2018	6	716.4	777.7	0.048		3150.8			
2018	04-30-2018	7	620.4	760	0.048		3309.7			
2018	04-30-2018	8	658.7	777.5	0.044		3270.8			
2018	04-30-2018	9	515.8	728.4			3188.7			
2018	04-30-2018	10	557.4	741.5			3081.6			
2018	04-30-2018	11	605	756			3021			
2018	04-30-2018	12	618.9	685.7			3188.1			
2018	04-30-2018	13	513.1	720.9			2990.6			
2018	04-30-2018	14	492.2	678.6			2838.6			
2018	04-30-2018	15	604.3	677.3			2887.3			
2018	04-30-2018	16	712.7	706.1			2993			
2018	04-30-2018	17	657.2	745.2			3140.8			
2018	04-30-2018	18	641.6	703.7			3263			
2018	04-30-2018	19	662	679.8			3221.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	04-30-2018	20	737.2	752.2			3234.7			
2018	04-30-2018	21	717.9	723.3			3329			
2018	04-30-2018	22	602.3	688.2			3224.3			
2018	04-30-2018	23	435.9	467.6			2955.4			
2018	05-01-2018	0	346	288.3			2585.9			
2018	05-01-2018	1	266.9	174.3			2334.4			
2018	05-01-2018	2	193	106.1			2040.8			
2018	05-01-2018	3	192.8	106.9			1928.7			
2018	05-01-2018	4	224.1	253.1			2332.4			
2018	05-01-2018	5	181.1	370.9			2808.4			
2018	05-01-2018	6	217	544.2			2944.6			
2018	05-01-2018	7	260.8	672.4			2821.7			
2018	05-01-2018	8	273.2	623.6			2483.1			
2018	05-01-2018	9	357.2	435.2			2173.6			
2018	05-01-2018	10	630.8	253.1			1955.5		0.83	
2018	05-01-2018	11	644.9	134.5			1895.4		0.9	
2018	05-01-2018	12	594.3	139.2			1953.3		4.7	
2018	05-01-2018	13	593.1	126.8			1856.1		4	
2018	05-01-2018	14	661.4	108			1931.2		6.8	
2018	05-01-2018	15	664	136.9			1942.6		16.7	
2018	05-01-2018	16	644	145.5			2005.7		35.2	
2018	05-01-2018	17	617.2	218.4			1971.8		58.5	
2018	05-01-2018	18	564.7	254.8			1936.7		57.4	
2018	05-01-2018	19	539.1	286.9			1908.9		57.2	
2018	05-01-2018	20	495.4	422.3			1870.1		64.3	
2018	05-01-2018	21	254.5	235			1860.9		67	
2018	05-01-2018	22	243.4	194.9			1871.8		71	
2018	05-01-2018	23	152.8	149.9			1859.8		74.8	
2018	05-02-2018	0	145	86.9			1861.3		67	
2018	05-02-2018	1	138.2	58.8			1863.6		63.1	
2018	05-02-2018	2	146.8	58.8			1870.9		66.2	
2018	05-02-2018	3	139.6	58.5			1849.2		119.7	
2018	05-02-2018	4	172.6	60.2			1847		145.7	
2018	05-02-2018	5	138.4	70.7			2076.3		207.9	
2018	05-02-2018	6	167	72.5			1845.5		270.9	
2018	05-02-2018	7	224.4	70			1723.8		349.5	
2018	05-02-2018	8	324	87.6			1797.7		407.7	
2018	05-02-2018	9	340.2	112.3			1787.1		517.5	
2018	05-02-2018	10	348.3	146.4			1939.9		691.7	
2018	05-02-2018	11	345.4	180.7			2317.1		884.2	
2018	05-02-2018	12	439.2	298.2			2360.3		954.2	
2018	05-02-2018	13	651.9	382.9			2552.9		1141	
2018	05-02-2018	14	739.5	524			2827.7		293.552	
2018	05-02-2018	15	647.2	537.6			3004.1		21.216	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-02-2018	16	710.7	736.7			3065.2		84.2	
2018	05-02-2018	17	806.3	834.6			3176.3		86.9	
2018	05-02-2018	18	770.9	763			3239.1		87.1	
2018	05-02-2018	19	800.9	817.4			3266.3		88.8	
2018	05-02-2018	20	827.4	815.2			3259.6		145.8	
2018	05-02-2018	21	815.7	766.3			3205.1		175	
2018	05-02-2018	22	517.5	531.2			3067.1		232	
2018	05-02-2018	23	334.2	313.7			2741.3		246.4	
2018	05-03-2018	0	231.7	170			2515.2		297.9	
2018	05-03-2018	1	164	112.1			2216.3		404	
2018	05-03-2018	2	131.7	60.1			1929.8		529	
2018	05-03-2018	3	135.8	61.7			1791.8		673	
2018	05-03-2018	4	170.4	74.1			1974.5		719.1	
2018	05-03-2018	5	179	130.5			2317.1		743.8	
2018	05-03-2018	6	270.7	154.3			2410.6		829.6	
2018	05-03-2018	7	227.5	227.9			2324.5		828.8	
2018	05-03-2018	8	313.4	328.7			1963.3		806.8	
2018	05-03-2018	9	375.6	414.6			2182.3		947.9	
2018	05-03-2018	10	354.4	377.1			2021.1		994.7	
2018	05-03-2018	11	325.2	400.7			1861.4		1048.8	
2018	05-03-2018	12	342.3	448.3			1864.6		1111.9	
2018	05-03-2018	13	380.1	488.1			2152.9		1172.4	
2018	05-03-2018	14	510.9	651.6			2337.3		1143.1	
2018	05-03-2018	15	605	728.5			2670.7		1147.7	
2018	05-03-2018	16	633.2	758			2789.4		1171.4	
2018	05-03-2018	17	704.4	696.9			3080.8		1199.3	
2018	05-03-2018	18	654.2	635.1			3101.6		1213.1	
2018	05-03-2018	19	698.8	722.9			3141.7		1224.4	
2018	05-03-2018	20	679.6	675.2			3098.5		1233.2	
2018	05-03-2018	21	487.5	539			2910.7		1280.2	
2018	05-03-2018	22	378.3	426			2633.3		1263.9	
2018	05-03-2018	23	293.2	338.8			2378.2		1208.6	
2018	05-04-2018	0	221.6	187.1			2137.1		1176.7	
2018	05-04-2018	1	152.5	119.7			1965.8		1196.7	
2018	05-04-2018	2	147.1	68.3			1858.4		1212.9	
2018	05-04-2018	3	148.4	66.7			1913.4		1254	
2018	05-04-2018	4	199.7	75.6			2059.8		1305.7	
2018	05-04-2018	5	195.5	50.7			2080.2		1307.1	
2018	05-04-2018	6	220.2	72.4			1987.4		1285.6	
2018	05-04-2018	7	180.2	99.7			1994.1		1304	
2018	05-04-2018	8	146.8	73.1			1996.2		1309.1	
2018	05-04-2018	9	118.3	62.2			1980.6		1284.7	
2018	05-04-2018	10	160.9	85			2210.5		1608	
2018	05-04-2018	11	279.2	164.2			2511.1		1612.1	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-04-2018	12	515.1	204.2			2845.9		1721.9	
2018	05-04-2018	13	772.8	358			3031.6		1760.1	
2018	05-04-2018	14	657.7	553.8			3259.7		1841	
2018	05-04-2018	15	738.8	788.4			3373.4		1914.4	
2018	05-04-2018	16	826.8	854.5			3396.3		2029.4	
2018	05-04-2018	17	813.7	703.8			3346		1984.1	
2018	05-04-2018	18	780.1	549.2			3255.7		2012.8	
2018	05-04-2018	19	822.6	590.9			3294.4		2029.4	
2018	05-04-2018	20	797.1	509.1			3242.3		2061.8	
2018	05-04-2018	21	582.6	63.8			2453.8		2147.3	
2018	05-04-2018	22	467.6	54.7	0.017		2272.8		2176.8	
2018	05-04-2018	23	367.1	7.71	0.047		1097.88		2375.4	
2018	05-05-2018	0	335.8		0.069				2429.7	
2018	05-05-2018	1	266.3		0.079				2544.9	
2018	05-05-2018	2	255.4		0.09				2520.6	
2018	05-05-2018	3	224.2		0.059				2525.3	
2018	05-05-2018	4	324.9		0.053				2516.2	
2018	05-05-2018	5	422.2		0.053				2057.9	
2018	05-05-2018	6	344		0.053				1796.8	
2018	05-05-2018	7	366.7		0.053				1786	
2018	05-05-2018	8	528.6		0.053				1866.5	
2018	05-05-2018	9	758.4		0.054				2115.9	
2018	05-05-2018	10	952.6		0.036				2308.5	
2018	05-05-2018	11	986.1						2222	
2018	05-05-2018	12	1256						2297.8	
2018	05-05-2018	13	1477.6						2293.6	
2018	05-05-2018	14	1201.4						2332.1	
2018	05-05-2018	15	1140.7						2443.6	
2018	05-05-2018	16	1328.6						2380.3	
2018	05-05-2018	17	1575.6						2428.9	
2018	05-05-2018	18	1536.5						2446.7	
2018	05-05-2018	19	1091.5						2465.7	
2018	05-05-2018	20	1412						2503.7	
2018	05-05-2018	21	931.8						2426.8	
2018	05-05-2018	22	631.7						2454	
2018	05-05-2018	23	496.6						2307.7	
2018	05-06-2018	0	428.4						2389.5	
2018	05-06-2018	1	400.3						2342	
2018	05-06-2018	2	373.4						2391.5	
2018	05-06-2018	3	342.5						2233	
2018	05-06-2018	4	332.6						2323.2	
2018	05-06-2018	5	336.3						2505.2	
2018	05-06-2018	6	381.8						2544.5	
2018	05-06-2018	7	465.6						2639.8	

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-06-2018	8	670.2						2651.5	
2018	05-06-2018	9	610.8						2673.5	
2018	05-06-2018	10	1006.7						2492.1	
2018	05-06-2018	11	1207.3						2551.4	
2018	05-06-2018	12	767.3						2590.3	
2018	05-06-2018	13	1352.6						2522.7	
2018	05-06-2018	14	1293.6						2491	
2018	05-06-2018	15	1230.9						2455.6	
2018	05-06-2018	16	1458.2						2452	
2018	05-06-2018	17	1552.4						2582.7	
2018	05-06-2018	18	1561.5						2541.1	
2018	05-06-2018	19	1124.3						2404.7	
2018	05-06-2018	20	1098		0.001				2084.3	
2018	05-06-2018	21	908.5		0.039				2017.2	
2018	05-06-2018	22	756.3		0.068				1939.6	
2018	05-06-2018	23	629.9		0.081				1839.8	
2018	05-07-2018	0	509.3		0.078				1531.6	
2018	05-07-2018	1	498.4		0.056				1482.3	
2018	05-07-2018	2	400		0.06				938.4	
2018	05-07-2018	3	340.7		0.06				514.2	
2018	05-07-2018	4	373.3		0.059				292.86	
2018	05-07-2018	5	507.2		0.059					
2018	05-07-2018	6	587.5		0.06					
2018	05-07-2018	7	888.6		0.06					
2018	05-07-2018	8	1279.5		0.06					
2018	05-07-2018	9	1991.2		0.06					
2018	05-07-2018	10	2050.3		0.06					
2018	05-07-2018	11	2026.9		0.06					
2018	05-07-2018	12	1681.3		0.056					
2018	05-07-2018	13	1915.4		0.052					
2018	05-07-2018	14	1819.7		0.057					
2018	05-07-2018	15	2175.8		0.057					
2018	05-07-2018	16	1653.3		0.057					
2018	05-07-2018	17	1875.4		0.045					
2018	05-07-2018	18	2113.5							
2018	05-07-2018	19	2112.9							
2018	05-07-2018	20	1542.2							
2018	05-07-2018	21	1982.1							
2018	05-07-2018	22	1653.7							
2018	05-07-2018	23	1115.4							
2018	05-08-2018	0	714.3							
2018	05-08-2018	1	538.9							
2018	05-08-2018	2	346.5							
2018	05-08-2018	3	364.3							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-08-2018	4	416.5							
2018	05-08-2018	5	1132.7							
2018	05-08-2018	6	1333.9							
2018	05-08-2018	7	1825.9							
2018	05-08-2018	8	2190.2							
2018	05-08-2018	9	1965							
2018	05-08-2018	10	1971.6							
2018	05-08-2018	11	2008.4							
2018	05-08-2018	12	2087							
2018	05-08-2018	13	2084.6							
2018	05-08-2018	14	2072.6							
2018	05-08-2018	15	2080							
2018	05-08-2018	16	2104.9							
2018	05-08-2018	17	2205.8							
2018	05-08-2018	18	2075							
2018	05-08-2018	19	1988.2							
2018	05-08-2018	20	2184							
2018	05-08-2018	21	2122							
2018	05-08-2018	22	1571.2							
2018	05-08-2018	23	1227.4							
2018	05-09-2018	0	811.6							
2018	05-09-2018	1	601.9							
2018	05-09-2018	2	445.2							
2018	05-09-2018	3	386.5							
2018	05-09-2018	4	469							
2018	05-09-2018	5	481.7							
2018	05-09-2018	6	573.6							
2018	05-09-2018	7	410.4							
2018	05-09-2018	8	454.5							
2018	05-09-2018	9	662							
2018	05-09-2018	10	898.4							
2018	05-09-2018	11	1106.1							
2018	05-09-2018	12	1042.1							
2018	05-09-2018	13	1008.3							
2018	05-09-2018	14	963.6							
2018	05-09-2018	15	955.3							
2018	05-09-2018	16	977.8							
2018	05-09-2018	17	1018.5							
2018	05-09-2018	18	979.5							
2018	05-09-2018	19	990.7							
2018	05-09-2018	20	1004.1							
2018	05-09-2018	21	1025							
2018	05-09-2018	22	973.3							
2018	05-09-2018	23	711.7							



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-10-2018	0	538.5							
2018	05-10-2018	1	394.2							
2018	05-10-2018	2	295.3							
2018	05-10-2018	3	198.6							
2018	05-10-2018	4	227.4							
2018	05-10-2018	5	281.3							
2018	05-10-2018	6	661							
2018	05-10-2018	7	635.5							
2018	05-10-2018	8	712.2							
2018	05-10-2018	9	557.5							
2018	05-10-2018	10	651.7							
2018	05-10-2018	11	700.2							
2018	05-10-2018	12	879.4							
2018	05-10-2018	13	1252.9							
2018	05-10-2018	14	1291.5							
2018	05-10-2018	15	1289.4							
2018	05-10-2018	16	1312.5							
2018	05-10-2018	17	1335.2							
2018	05-10-2018	18	1371.4							
2018	05-10-2018	19	1293.2							
2018	05-10-2018	20	1321.2							
2018	05-10-2018	21	1334.7							
2018	05-10-2018	22	1408.2							
2018	05-10-2018	23	1085.2							
2018	05-11-2018	0	936.6							
2018	05-11-2018	1	716.5							
2018	05-11-2018	2	549.3							
2018	05-11-2018	3	473.7							
2018	05-11-2018	4	503.2							
2018	05-11-2018	5	622.8							
2018	05-11-2018	6	1075.1							
2018	05-11-2018	7	821.1							
2018	05-11-2018	8	728.2							
2018	05-11-2018	9	727.4							
2018	05-11-2018	10	1046.4							
2018	05-11-2018	11	1234.5							
2018	05-11-2018	12	1282.2							
2018	05-11-2018	13	1385.2							
2018	05-11-2018	14	1303.2							
2018	05-11-2018	15	1375.3							
2018	05-11-2018	16	1397.8							
2018	05-11-2018	17	1370.2							
2018	05-11-2018	18	1344.3							
2018	05-11-2018	19	1440.4							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-11-2018	20	1414							
2018	05-11-2018	21	1269.8							
2018	05-11-2018	22	1074							
2018	05-11-2018	23	992.1							
2018	05-12-2018	0	729.8							
2018	05-12-2018	1	598.6		0.027					
2018	05-12-2018	2	497.1		0.036					
2018	05-12-2018	3	408.1		0.037					
2018	05-12-2018	4	358.4		0.057					
2018	05-12-2018	5	263.6		0.079					
2018	05-12-2018	6	338.3		0.092					
2018	05-12-2018	7	236.7		0.068					
2018	05-12-2018	8	234.7		0.089					
2018	05-12-2018	9	241.4		0.137					
2018	05-12-2018	10	301.1		0.273					
2018	05-12-2018	11	329.6		0.311					
2018	05-12-2018	12	364		0.324					
2018	05-12-2018	13	743.6		0.332					
2018	05-12-2018	14	926		0.353					
2018	05-12-2018	15	998.6		0.378					
2018	05-12-2018	16	1005.5		0.407					
2018	05-12-2018	17	909		0.462					
2018	05-12-2018	18	990.7		0.346					
2018	05-12-2018	19	849.7		0.32					
2018	05-12-2018	20	820		0.326					
2018	05-12-2018	21	829.4		0.326					
2018	05-12-2018	22	629.3		0.317					
2018	05-12-2018	23	469.1		0.157					
2018	05-13-2018	0	353.2							
2018	05-13-2018	1	229							
2018	05-13-2018	2	194.8							
2018	05-13-2018	3	195							
2018	05-13-2018	4	214.5							
2018	05-13-2018	5	360.6							
2018	05-13-2018	6	435.7							
2018	05-13-2018	7	324.9							
2018	05-13-2018	8	310.2							
2018	05-13-2018	9	385.3							
2018	05-13-2018	10	339							
2018	05-13-2018	11	337.3							226.072
2018	05-13-2018	12	296.5							293.6
2018	05-13-2018	13	445.1							488
2018	05-13-2018	14	865.4							475.6
2018	05-13-2018	15	1408.5							454.4

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-13-2018	16	1466							441.3
2018	05-13-2018	17	1615.1							437.6
2018	05-13-2018	18	1741.3							467.9
2018	05-13-2018	19	1794.7							472.9
2018	05-13-2018	20	1720.9							471.2
2018	05-13-2018	21	1704.3							469.7
2018	05-13-2018	22	1337.5							502.3
2018	05-13-2018	23	1083.1							531
2018	05-14-2018	0	745.3							542.6
2018	05-14-2018	1	635.4		0.003					460.8
2018	05-14-2018	2	474.6		0.039					452.2
2018	05-14-2018	3	478.1		0.052					542.1
2018	05-14-2018	4	593.6		0.064					591.1
2018	05-14-2018	5	900		0.064					634.9
2018	05-14-2018	6	1198.6		0.064					742.7
2018	05-14-2018	7	1828		0.075					765.9
2018	05-14-2018	8	1253.3		0.196					862.1
2018	05-14-2018	9	1341.1		0.333					1212.3
2018	05-14-2018	10	1401.6		0.334					1322.6
2018	05-14-2018	11	1670.5		0.334					1451.8
2018	05-14-2018	12	1724.1		0.327					1642.3
2018	05-14-2018	13	2026.9		0.409					1736.1
2018	05-14-2018	14	2098.5		0.337					1918.5
2018	05-14-2018	15	2148.7		0.463					1967.8
2018	05-14-2018	16	2196.9		0.723					2015.3
2018	05-14-2018	17	2167.2		0.805					1994.1
2018	05-14-2018	18	2150.7		0.624					1960.8
2018	05-14-2018	19	2010.4		0.353					2000.6
2018	05-14-2018	20	1555.3		0.319					1927.5
2018	05-14-2018	21	1316.6		0.317					1763.6
2018	05-14-2018	22	951.1		0.318					1932.3
2018	05-14-2018	23	656.1		0.319					1804.9
2018	05-15-2018	0	599.7		0.318					1613.2
2018	05-15-2018	1	383.8		0.316					1554.7
2018	05-15-2018	2	334.1		0.315					1466.1
2018	05-15-2018	3	326.5		0.315					1455.8
2018	05-15-2018	4	465.9		0.315					1671.6
2018	05-15-2018	5	1140		0.318					1845.2
2018	05-15-2018	6	2275		0.315					1878.6
2018	05-15-2018	7	2129.7		0.315					1650.4
2018	05-15-2018	8	2229.6		0.32					1956.8
2018	05-15-2018	9	2253.9		0.316					1933.3
2018	05-15-2018	10	2203.4		0.315					1917
2018	05-15-2018	11	2179.7		0.32					1948.9

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-15-2018	12	2321		0.324					1968.1
2018	05-15-2018	13	2373.5		0.429					2007.5
2018	05-15-2018	14	2326.3		0.723					1969.9
2018	05-15-2018	15	2293.5		0.806					1947
2018	05-15-2018	16	2332.3		0.805					1980.6
2018	05-15-2018	17	2402.6		0.809					1917.6
2018	05-15-2018	18	2327.7		0.792					1987.9
2018	05-15-2018	19	2352.6		0.718					1965.9
2018	05-15-2018	20	2327		0.465					1922
2018	05-15-2018	21	2354.9		0.325					1883.7
2018	05-15-2018	22	2289.7		0.295					1852.7
2018	05-15-2018	23	1579.5		0.02					1717.4
2018	05-16-2018	0	1083.1							1752.8
2018	05-16-2018	1	707.2							1773.5
2018	05-16-2018	2	453.4							1790.2
2018	05-16-2018	3	390.1							1816.5
2018	05-16-2018	4	882.3							1825.9
2018	05-16-2018	5	1442.3							1788.7
2018	05-16-2018	6	824.7							1667.8
2018	05-16-2018	7	425.8							1565.5
2018	05-16-2018	8	430.1							1662.4
2018	05-16-2018	9	612.2							1772.9
2018	05-16-2018	10	1295.1							1777.9
2018	05-16-2018	11	1849.2							1778.9
2018	05-16-2018	12	2325.1							1807.3
2018	05-16-2018	13	2264.7							1800
2018	05-16-2018	14	2290.4							1781.6
2018	05-16-2018	15	2292.9							1738.9
2018	05-16-2018	16	2272.2							1735.3
2018	05-16-2018	17	2258.3							1767.6
2018	05-16-2018	18	2351.5							1759.9
2018	05-16-2018	19	2275.8							1723.4
2018	05-16-2018	20	2351.1							1752
2018	05-16-2018	21	2215.2							1734.4
2018	05-16-2018	22	1391.2							1760.4
2018	05-16-2018	23	1064.4							1722.9
2018	05-17-2018	0	824.8							1698.7
2018	05-17-2018	1	723.5							1754.7
2018	05-17-2018	2	498.9							1803
2018	05-17-2018	3	535.8							1774
2018	05-17-2018	4	1153.7							1797.2
2018	05-17-2018	5	2110.4							1854.8
2018	05-17-2018	6	2396.2							1828.6
2018	05-17-2018	7	2296.2							1603

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-17-2018	8	2227.4							1700.1
2018	05-17-2018	9	1791.1							1716.7
2018	05-17-2018	10	2074.6							1734.6
2018	05-17-2018	11	2165.4							1620.1
2018	05-17-2018	12	2136.6							1603.9
2018	05-17-2018	13	1618.6							1392.7
2018	05-17-2018	14	1477.2							1243.3
2018	05-17-2018	15	1511.1							882.1
2018	05-17-2018	16	2026.3							553.2
2018	05-17-2018	17	1971.6							851.6
2018	05-17-2018	18	2213.6							874.6
2018	05-17-2018	19	2201.4							314.7
2018	05-17-2018	20	2362							12.09
2018	05-17-2018	21	2200.6							
2018	05-17-2018	22	2204.1							
2018	05-17-2018	23	1355.5							
2018	05-18-2018	0	886.5							
2018	05-18-2018	1	568.9							
2018	05-18-2018	2	608							
2018	05-18-2018	3	632.7							
2018	05-18-2018	4	824.4							
2018	05-18-2018	5	878.8							
2018	05-18-2018	6	1174.3							
2018	05-18-2018	7	1033.5							
2018	05-18-2018	8	1152.9							
2018	05-18-2018	9	1202.4							
2018	05-18-2018	10	1354.8							
2018	05-18-2018	11	1827.9							
2018	05-18-2018	12	2227.6							
2018	05-18-2018	13	2100.4							
2018	05-18-2018	14	2029.1							
2018	05-18-2018	15	1881							
2018	05-18-2018	16	1979.1							
2018	05-18-2018	17	1960.3							
2018	05-18-2018	18	1788.1							
2018	05-18-2018	19	1652.8							
2018	05-18-2018	20	1910.1							
2018	05-18-2018	21	1913.7							
2018	05-18-2018	22	1489.1							
2018	05-18-2018	23	1024.6							
2018	05-19-2018	0	794.1							
2018	05-19-2018	1	584							
2018	05-19-2018	2	425.1							
2018	05-19-2018	3	325.2							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-19-2018	4	360.1							
2018	05-19-2018	5	356.3							
2018	05-19-2018	6	500.7							
2018	05-19-2018	7	391.4							
2018	05-19-2018	8	457.4							
2018	05-19-2018	9	440.4							
2018	05-19-2018	10	465.2							
2018	05-19-2018	11	653.1							
2018	05-19-2018	12	1124							
2018	05-19-2018	13	1936.6							
2018	05-19-2018	14	2164							
2018	05-19-2018	15	2514.6							
2018	05-19-2018	16	2599.2							
2018	05-19-2018	17	2617							
2018	05-19-2018	18	2193.6							
2018	05-19-2018	19	1875.5							
2018	05-19-2018	20	1937.3							
2018	05-19-2018	21	1971							
2018	05-19-2018	22	1563.5							
2018	05-19-2018	23	1302.5							
2018	05-20-2018	0	1060.1							
2018	05-20-2018	1	894.2							
2018	05-20-2018	2	770.4							
2018	05-20-2018	3	544.3							
2018	05-20-2018	4	520.7							
2018	05-20-2018	5	515.2							
2018	05-20-2018	6	603.5							
2018	05-20-2018	7	553.2							
2018	05-20-2018	8	701.9							
2018	05-20-2018	9	1112.2							
2018	05-20-2018	10	1286.8							
2018	05-20-2018	11	1396.892							
2018	05-20-2018	12	1208.3							
2018	05-20-2018	13	1998.5							
2018	05-20-2018	14	2037.1							
2018	05-20-2018	15	2021.4							
2018	05-20-2018	16	2079.7							
2018	05-20-2018	17	2081.4							
2018	05-20-2018	18	2061.3							
2018	05-20-2018	19	2039.7							
2018	05-20-2018	20	2090							
2018	05-20-2018	21	2070.6							
2018	05-20-2018	22	1545.2							
2018	05-20-2018	23	1139.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-21-2018	0	940.6							
2018	05-21-2018	1	945.8							
2018	05-21-2018	2	777.2							
2018	05-21-2018	3	872.7							
2018	05-21-2018	4	2104.2							
2018	05-21-2018	5	2006.7							
2018	05-21-2018	6	2164.9							
2018	05-21-2018	7	2161.5							
2018	05-21-2018	8	2067.5							
2018	05-21-2018	9	2042.9							
2018	05-21-2018	10	2040.8							
2018	05-21-2018	11	2051.1							
2018	05-21-2018	12	2042.8							
2018	05-21-2018	13	2234.2							
2018	05-21-2018	14	2398.3							
2018	05-21-2018	15	2447.1							
2018	05-21-2018	16	2442.8							
2018	05-21-2018	17	2521.4							
2018	05-21-2018	18	2412							
2018	05-21-2018	19	2053.2							
2018	05-21-2018	20	2196.8							
2018	05-21-2018	21	2169.9							
2018	05-21-2018	22	1821.9							
2018	05-21-2018	23	1073.9							
2018	05-22-2018	0	747.1							
2018	05-22-2018	1	602.9							
2018	05-22-2018	2	456	0						
2018	05-22-2018	3	334	0						
2018	05-22-2018	4	452.7	0						
2018	05-22-2018	5	1113	0						
2018	05-22-2018	6	1054.6	0						
2018	05-22-2018	7	958.9	0						
2018	05-22-2018	8	1383	0						
2018	05-22-2018	9	1424.6	0						
2018	05-22-2018	10	1539.5	0						
2018	05-22-2018	11	1978.7	0						
2018	05-22-2018	12	2206.8	0						
2018	05-22-2018	13	2284.7	0						
2018	05-22-2018	14	2378.3	0						
2018	05-22-2018	15	2300.7	0						
2018	05-22-2018	16	2291.9	0						
2018	05-22-2018	17	2250.2	0						
2018	05-22-2018	18	2231.3	0						
2018	05-22-2018	19	2214.2	0						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-22-2018	20	2251.2	0						
2018	05-22-2018	21	2045.4	0						
2018	05-22-2018	22	1583.1	34.4						
2018	05-22-2018	23	1157.4	103.6						
2018	05-23-2018	0	746.5	112.7						
2018	05-23-2018	1	691	322.6						
2018	05-23-2018	2	563.1	146.7						
2018	05-23-2018	3	459.2	267.8						
2018	05-23-2018	4	366.1	362.2						
2018	05-23-2018	5	382	352.1						
2018	05-23-2018	6	617.2	357.6						
2018	05-23-2018	7	675.4	299.7						
2018	05-23-2018	8	695.6	175.2						
2018	05-23-2018	9	991.1	282.9						
2018	05-23-2018	10	1037.8	368.9						
2018	05-23-2018	11	1505.4	564.6						
2018	05-23-2018	12	1465.7	566.4						
2018	05-23-2018	13	1520.7	489.2						
2018	05-23-2018	14	1613.3	442.3						
2018	05-23-2018	15	1755.7	489.1						
2018	05-23-2018	16	1652.2	468.8						
2018	05-23-2018	17	2189.9	498.6						
2018	05-23-2018	18	2154	544.2						
2018	05-23-2018	19	1656.1	492.9						
2018	05-23-2018	20	1967.9	387.3						
2018	05-23-2018	21	1719.6	305						
2018	05-23-2018	22	1319.7	234.1						
2018	05-23-2018	23	879.3	203						
2018	05-24-2018	0	728.7	129.2						
2018	05-24-2018	1	566.1	67.7						
2018	05-24-2018	2	423.8	48.7						
2018	05-24-2018	3	342.7	50.3						
2018	05-24-2018	4	362.3	56.9						
2018	05-24-2018	5	324.1	23.9						
2018	05-24-2018	6	491.3	11.9	0.025					
2018	05-24-2018	7	290.7	33.5	0.04					
2018	05-24-2018	8	399.1	39.1	0.049					
2018	05-24-2018	9	472.8	57.2	0.06					
2018	05-24-2018	10	666.8	202.8	0.071					
2018	05-24-2018	11	716.5	390.6	0.081					
2018	05-24-2018	12	1079	470.6	0.094		0			
2018	05-24-2018	13	1793.4	617.7	0.071		0			
2018	05-24-2018	14	1709.4	653	0.075		0			
2018	05-24-2018	15	1801.5	707.2	0.075		50.1			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-24-2018	16	2119.4	687.8	0.071		238.6			
2018	05-24-2018	17	1998.2	677.3	0.069		279.8			
2018	05-24-2018	18	1472.6	454.7	0.068		283.4			
2018	05-24-2018	19	1612.4	473	0.066		301.6			
2018	05-24-2018	20	1549.4	533.8	0.065		314.1			
2018	05-24-2018	21	1397.6	429.9	0.064		329			
2018	05-24-2018	22	1015.2	259.4	0.063		473.3			
2018	05-24-2018	23	720.3	202.7	0.062		662.3			
2018	05-25-2018	0	506.3	167.8	0.062		930.8			
2018	05-25-2018	1	378.2	120.6	0.061		1583.5			
2018	05-25-2018	2	304.5	72.8	0.062		1754.3			
2018	05-25-2018	3	295	54.5	0.045		1780.4			
2018	05-25-2018	4	332.7	64.9	0.049		1793.4			
2018	05-25-2018	5	324.4	68.2	0.048		1797.6			
2018	05-25-2018	6	591.2	66.6	0.002		1822.5			
2018	05-25-2018	7	316.3	79			1850.2			
2018	05-25-2018	8	463.8	95.4			2225			
2018	05-25-2018	9	505.9	126.1			2153.4			
2018	05-25-2018	10	700.1	178.6			2078			
2018	05-25-2018	11	465.7	104.8			1937.6			
2018	05-25-2018	12	631.4	112.8			2044.1			
2018	05-25-2018	13	721	123.3			2279.4			
2018	05-25-2018	14	759.9	159			2122.2			
2018	05-25-2018	15	997.7	277.2			2339			
2018	05-25-2018	16	1074.5	428.3			2645.9			
2018	05-25-2018	17	1112.7	432.9			2875.3			
2018	05-25-2018	18	798.1	334.7			2818.3			
2018	05-25-2018	19	503.5	161.5			2471.8			
2018	05-25-2018	20	470.4	130.9			2262.2			
2018	05-25-2018	21	384.5	106			1970.9			
2018	05-25-2018	22	255.8	71.8			1923.5			
2018	05-25-2018	23	172.5	54.4			1963.3			
2018	05-26-2018	0	179.5	38.6			1992.6			
2018	05-26-2018	1	163.8	40.4			1996.5			
2018	05-26-2018	2	156.8	40.7			2093.3			
2018	05-26-2018	3	153	42			2081.5			
2018	05-26-2018	4	158.9	43.3			2092.4			
2018	05-26-2018	5	155.4	31.9			2118.5			
2018	05-26-2018	6	187.1	41.9			2161.9			
2018	05-26-2018	7	127.2	56.1			2193.8			
2018	05-26-2018	8	148.1	95.6			2089.4			
2018	05-26-2018	9	192.7	156.5			2058			
2018	05-26-2018	10	264.4	218.3			2111.5			
2018	05-26-2018	11	313.4	301.4			2293.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-26-2018	12	359.7	295.6			2435.9			
2018	05-26-2018	13	309.8	250.8			2218.3			
2018	05-26-2018	14	289.5	208.8			2140.6			
2018	05-26-2018	15	296.9	234.9			2161.6			
2018	05-26-2018	16	358.6	260.2			2147.9			
2018	05-26-2018	17	305	228.4			2120.8			
2018	05-26-2018	18	236	154.3	0.027		2183.7			
2018	05-26-2018	19	212.9	94.2	0.043		2192.9			
2018	05-26-2018	20	194.4	65.6	0.045		2240.9			
2018	05-26-2018	21	124.7	46.9	0.05		2246.4			
2018	05-26-2018	22	121.4	44.6	0.07		2234			
2018	05-26-2018	23	124.4	45	0.059		938.5			
2018	05-27-2018	0	153	48.9	0.047					
2018	05-27-2018	1	114.4	51	0.049					
2018	05-27-2018	2	109.6	49.5	0.049					
2018	05-27-2018	3	109.7	49.4	0.046					
2018	05-27-2018	4	140.6	48.9	0.046					
2018	05-27-2018	5	117.3	85.6	0.046					
2018	05-27-2018	6	323.9	102.3	0.046					
2018	05-27-2018	7	184.4	101.7	0.003					
2018	05-27-2018	8	268.5	102.1						
2018	05-27-2018	9	382.6	115.5						
2018	05-27-2018	10	628.8	166.6						
2018	05-27-2018	11	857.6	254.1						
2018	05-27-2018	12	785.9	468.5						
2018	05-27-2018	13	1423.1	632						
2018	05-27-2018	14	1886.8	871.2						
2018	05-27-2018	15	1950.1	932.7						
2018	05-27-2018	16	1449.9	612.2						
2018	05-27-2018	17	1091.5	421.8						
2018	05-27-2018	18	1571.7	446.2						
2018	05-27-2018	19	1978	164.8						
2018	05-27-2018	20	2398.8	147.9						
2018	05-27-2018	21	2529.8	158.1						
2018	05-27-2018	22	2433.1	178.5						
2018	05-27-2018	23	1604	160.2						
2018	05-28-2018	0	2234.1	178						
2018	05-28-2018	1	2552.5	192.9						
2018	05-28-2018	2	1863.1	162.1						
2018	05-28-2018	3	1209	125.4						
2018	05-28-2018	4	918.2	152.2						
2018	05-28-2018	5	1028.2	170.2						
2018	05-28-2018	6	996.7	225.2						
2018	05-28-2018	7	889	271.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-28-2018	8	944.4	405.3						
2018	05-28-2018	9	939.8	409.1						
2018	05-28-2018	10	907.8	413.3						
2018	05-28-2018	11	903.9	427.6						
2018	05-28-2018	12	865.6	443.2						
2018	05-28-2018	13	892.4	404.8						
2018	05-28-2018	14	740.2	300						
2018	05-28-2018	15	636.2	231.6						
2018	05-28-2018	16	564.9	215.7						
2018	05-28-2018	17	507.8	195.2						
2018	05-28-2018	18	683.6	298.1						
2018	05-28-2018	19	844.6	385.7						
2018	05-28-2018	20	1011.6	552.1						
2018	05-28-2018	21	1103.7	639.6						
2018	05-28-2018	22	921.6	590.5						
2018	05-28-2018	23	499.3	297.1						
2018	05-29-2018	0	357.1	207.9						
2018	05-29-2018	1	276.8	147.5						
2018	05-29-2018	2	257.1	146.2						
2018	05-29-2018	3	246.4	124.2						
2018	05-29-2018	4	265.7	128.4						
2018	05-29-2018	5	249.5	146.3						
2018	05-29-2018	6	332.7	142.5						
2018	05-29-2018	7	280	145.5						
2018	05-29-2018	8	289.8	141.1						
2018	05-29-2018	9	295.4	136.3						
2018	05-29-2018	10	326.7	138.5						
2018	05-29-2018	11	336.1	214.5						
2018	05-29-2018	12	694.4	320.2						
2018	05-29-2018	13	1324.4	476.9						
2018	05-29-2018	14	1811.7	905.4						
2018	05-29-2018	15	2184.3	1266.5						
2018	05-29-2018	16	2291.3	1098.2						
2018	05-29-2018	17	2315.3	907.7						
2018	05-29-2018	18	2185.7	785.8						
2018	05-29-2018	19	1756.4	606.2						
2018	05-29-2018	20	1564.7	466.2						
2018	05-29-2018	21	1307	332.3						
2018	05-29-2018	22	794.7	219.8						
2018	05-29-2018	23	550.8	135.7						
2018	05-30-2018	0	423.4	88						
2018	05-30-2018	1	284	77.9						
2018	05-30-2018	2	263	82.9						
2018	05-30-2018	3	258.3	90.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	05-30-2018	4	294.4	104.7						
2018	05-30-2018	5	291.2	86.5						
2018	05-30-2018	6	480.5	168.7						
2018	05-30-2018	7	390.6	266						
2018	05-30-2018	8	491.3	320.4						
2018	05-30-2018	9	703.7	506.6		0				
2018	05-30-2018	10	723.3	603.1		0				
2018	05-30-2018	11	1128.9	881.7		0				
2018	05-30-2018	12	1231.2	1059.4		0				
2018	05-30-2018	13	1401.9	1416		0				
2018	05-30-2018	14	1243.7	1264.6		0				
2018	05-30-2018	15	1137.8	1078.4		0	0			
2018	05-30-2018	16	1126.5	1004.6		0	0			
2018	05-30-2018	17	1143.7	960.2		0	0			
2018	05-30-2018	18	1024	765.3		0	0			
2018	05-30-2018	19	1029.7	792.2		0.5	0			
2018	05-30-2018	20	1026.8	739.4		2.5	23.4			
2018	05-30-2018	21	925.8	579.3		5.3	273.1			
2018	05-30-2018	22	705.4	406		6	386.5			
2018	05-30-2018	23	506.2	250.9		6	420.9			
2018	05-31-2018	0	425.8	180.2		0	623.2			
2018	05-31-2018	1	343.8	170		0	1238.3			
2018	05-31-2018	2	260.9	167		0	1784.4			
2018	05-31-2018	3	267.9	168.7		0	1801.1			
2018	05-31-2018	4	280.6	164.9		0	1991			
2018	05-31-2018	5	134.4	73.9		0	1993.8			
2018	05-31-2018	6	196.8	71.5		0	2021.8			
2018	05-31-2018	7	137.7	67.9		0	2030.6			
2018	05-31-2018	8	161.1	61			2020.9			
2018	05-31-2018	9	146	59.8			1942.9			
2018	05-31-2018	10	138	54.6			1927.4			
2018	05-31-2018	11	141.6	54			1954.1			
2018	05-31-2018	12	195.2	70.8			2008.8			
2018	05-31-2018	13	211.416	188.4			1994.6			
2018	05-31-2018	14		470.2			2080.9			
2018	05-31-2018	15		483.7			2289.3			
2018	05-31-2018	16		467.9			2634.6			
2018	05-31-2018	17		514			2577.5			
2018	05-31-2018	18		517.1			2327.3			
2018	05-31-2018	19		495.9			2124			
2018	05-31-2018	20		435.7			2089.2			
2018	05-31-2018	21		288.3			1969			
2018	05-31-2018	22		219.2			2028.1			
2018	05-31-2018	23		127			2059			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-01-2018	0		84.8			2070.2			
2018	06-01-2018	1		52.3			2096.8			
2018	06-01-2018	2		62.2	0.008		2106			
2018	06-01-2018	3		64	0.016		2107.6			
2018	06-01-2018	4		61.8	0.037		2096.6			
2018	06-01-2018	5		47.8	0.05		2105.7			
2018	06-01-2018	6		71.1	0.057		2109.2			
2018	06-01-2018	7		66.4	0.072		2099.3			
2018	06-01-2018	8		71	0.07		2126.8			
2018	06-01-2018	9		97.7	0.065		2075.4			
2018	06-01-2018	10		176.6	0.07		2310.2			
2018	06-01-2018	11		227.4	0.078		2294.2			
2018	06-01-2018	12		435.1	0.234		2593.3			
2018	06-01-2018	13		555.6	0.333		2773.4			
2018	06-01-2018	14		597.5	0.317		3158.8			
2018	06-01-2018	15		599.4	0.308		3353.5			
2018	06-01-2018	16		629.3	0.305		3243.2			
2018	06-01-2018	17		629.1	0.085		3145.1			
2018	06-01-2018	18		585.5			3015.5			
2018	06-01-2018	19		524.4			2887.8			
2018	06-01-2018	20		496.6			2998.5			
2018	06-01-2018	21		391.3			2828.3			
2018	06-01-2018	22		278.9			1917.1			
2018	06-01-2018	23		184.2			347.085			
2018	06-02-2018	0		250.2						
2018	06-02-2018	1		273.7						
2018	06-02-2018	2		153.9						
2018	06-02-2018	3		136						
2018	06-02-2018	4		164.6						
2018	06-02-2018	5		155.1						
2018	06-02-2018	6		142.1						
2018	06-02-2018	7		150						
2018	06-02-2018	8		241.1						
2018	06-02-2018	9		393.4						
2018	06-02-2018	10		610.8						
2018	06-02-2018	11		1134.4						
2018	06-02-2018	12		1577.6						
2018	06-02-2018	13		1348.3						
2018	06-02-2018	14		1089.5						
2018	06-02-2018	15		967.4						
2018	06-02-2018	16		902.8						
2018	06-02-2018	17		851.5						
2018	06-02-2018	18		831						
2018	06-02-2018	19		591.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-02-2018	20		719						
2018	06-02-2018	21		679.5						
2018	06-02-2018	22		601						
2018	06-02-2018	23		443.3						
2018	06-03-2018	0		231.3						
2018	06-03-2018	1		142.6						
2018	06-03-2018	2		94.7						
2018	06-03-2018	3		91.2						
2018	06-03-2018	4		95.4						
2018	06-03-2018	5		77.9						
2018	06-03-2018	6		110.6						
2018	06-03-2018	7		144						
2018	06-03-2018	8		113.7						
2018	06-03-2018	9		160						
2018	06-03-2018	10		247.5						
2018	06-03-2018	11		317.8						
2018	06-03-2018	12		754.9						
2018	06-03-2018	13		720.9						
2018	06-03-2018	14		701.7						
2018	06-03-2018	15		687.1						
2018	06-03-2018	16		501.4						
2018	06-03-2018	17		458.9						
2018	06-03-2018	18		319.6						
2018	06-03-2018	19		255.7						
2018	06-03-2018	20		239.4						
2018	06-03-2018	21		172						
2018	06-03-2018	22		162						
2018	06-03-2018	23		166.5						
2018	06-04-2018	0		133.9						
2018	06-04-2018	1		108.6						
2018	06-04-2018	2		139.4						
2018	06-04-2018	3		160.2						
2018	06-04-2018	4		157.9						
2018	06-04-2018	5		161.4						
2018	06-04-2018	6		159.3						
2018	06-04-2018	7		165.6						
2018	06-04-2018	8		161.8						
2018	06-04-2018	9		169.4						
2018	06-04-2018	10		162.9						
2018	06-04-2018	11		165.6						
2018	06-04-2018	12		194.9						
2018	06-04-2018	13		170.4						
2018	06-04-2018	14	0	181.2						
2018	06-04-2018	15	0	193.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-04-2018	16	0	247.2						
2018	06-04-2018	17	0	293.4						
2018	06-04-2018	18	0	266.6						
2018	06-04-2018	19	0	219.4						
2018	06-04-2018	20	0	144.4						
2018	06-04-2018	21	0	166.6						
2018	06-04-2018	22	0	170.5						
2018	06-04-2018	23	0	173.6						
2018	06-05-2018	0	0	171						
2018	06-05-2018	1	17.5	166.3						
2018	06-05-2018	2	22.4	161.6						
2018	06-05-2018	3	65.6	169.8						
2018	06-05-2018	4	56.9	167.6						
2018	06-05-2018	5	120.9	129.3						
2018	06-05-2018	6	301.1	168.3						
2018	06-05-2018	7	429.1	165.6						
2018	06-05-2018	8	846.7	160.4						
2018	06-05-2018	9	1476.4	161.8						
2018	06-05-2018	10	1016.5	157.5						
2018	06-05-2018	11	260.1	207						
2018	06-05-2018	12	242.1	250.3						
2018	06-05-2018	13	217.3	271.1						
2018	06-05-2018	14	285.6	340.6						
2018	06-05-2018	15	265.7	304.8						
2018	06-05-2018	16	240.6	272.7						
2018	06-05-2018	17	281.2	221.9						
2018	06-05-2018	18	261.4	214						
2018	06-05-2018	19	254.6	163.9						
2018	06-05-2018	20	240	154.2						
2018	06-05-2018	21	255.2	155.3						
2018	06-05-2018	22	244.1	157.9						
2018	06-05-2018	23	245	156.4						
2018	06-06-2018	0	242.7	144.1						
2018	06-06-2018	1	244.2	169.2						
2018	06-06-2018	2	235.8	158.2						
2018	06-06-2018	3	235.4	136.3						
2018	06-06-2018	4	238.7	139						
2018	06-06-2018	5	230.6	165.2						
2018	06-06-2018	6	284.8	173.3						
2018	06-06-2018	7	256.8	179.9						
2018	06-06-2018	8	245.3	176.9						
2018	06-06-2018	9	243.4	173.5						
2018	06-06-2018	10	253.7	174						
2018	06-06-2018	11	278	185.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-06-2018	12	256.8	175.6						
2018	06-06-2018	13	255.3	170.9						
2018	06-06-2018	14	250.6	169.9						
2018	06-06-2018	15	336.3	235.7						
2018	06-06-2018	16	365.6	243.2						
2018	06-06-2018	17	441.9	287.2						
2018	06-06-2018	18	372.9	246						
2018	06-06-2018	19	345.2	220.9						
2018	06-06-2018	20	286.1	147.3						
2018	06-06-2018	21	261.2	145.4						
2018	06-06-2018	22	243.6	145.8						
2018	06-06-2018	23	248.7	149.5						
2018	06-07-2018	0	253	145						
2018	06-07-2018	1	256.3	147						
2018	06-07-2018	2	241.6	145.7						
2018	06-07-2018	3	247.4	148.3						
2018	06-07-2018	4	252.9	151.6						
2018	06-07-2018	5	245.8	114.1						
2018	06-07-2018	6	286.5	146						
2018	06-07-2018	7	246.9	139.8						
2018	06-07-2018	8	241.1	133.8						
2018	06-07-2018	9	242.5	135.6						
2018	06-07-2018	10	225.6	131						
2018	06-07-2018	11	241.8	145.9						
2018	06-07-2018	12	296.9	210.2						
2018	06-07-2018	13	339	248.8						
2018	06-07-2018	14	452.7	460						
2018	06-07-2018	15	664	878.8						
2018	06-07-2018	16	997.5	1295.3						
2018	06-07-2018	17	1356.8	1203.1						
2018	06-07-2018	18	955.8	942.9						
2018	06-07-2018	19	753.2	757.3						
2018	06-07-2018	20	1159.9	820.2						
2018	06-07-2018	21	602.7	583.9						
2018	06-07-2018	22	404.9	389.2						
2018	06-07-2018	23	268.5	263.3						
2018	06-08-2018	0	254.9	207.7						
2018	06-08-2018	1	246.8	131.1						
2018	06-08-2018	2	238.4	132.4						
2018	06-08-2018	3	233.9	144.6						
2018	06-08-2018	4	226.4	152.9						
2018	06-08-2018	5	217.9	151.7						
2018	06-08-2018	6	258.6	151.9						
2018	06-08-2018	7	238.7	161.5						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-08-2018	8	223.9	159.3						
2018	06-08-2018	9	330.5	194						
2018	06-08-2018	10	285.7	188.3						
2018	06-08-2018	11	424.7	233.2						
2018	06-08-2018	12	586.4	327.2						
2018	06-08-2018	13	1489	498.3						
2018	06-08-2018	14	1908	961.3						
2018	06-08-2018	15	1810.4	1459.3						
2018	06-08-2018	16	1723.8	1258.6						
2018	06-08-2018	17	1125.4	728.2						
2018	06-08-2018	18	731.8	355.1						
2018	06-08-2018	19	746.3	339.9						
2018	06-08-2018	20	570.2	287.7						
2018	06-08-2018	21	655.9	285.4						
2018	06-08-2018	22	471	213.7						
2018	06-08-2018	23	370.5	189.2						
2018	06-09-2018	0	291.4	169.5						
2018	06-09-2018	1	269.7	127.1						
2018	06-09-2018	2	274.3	142.9						
2018	06-09-2018	3	258.5	145.9						
2018	06-09-2018	4	261.9	155.2						
2018	06-09-2018	5	277.6	123.4						
2018	06-09-2018	6	297.5	167.4						
2018	06-09-2018	7	241.3	134.1						
2018	06-09-2018	8	235.4	168						
2018	06-09-2018	9	231.7	168.6						
2018	06-09-2018	10	244.7	175.9						
2018	06-09-2018	11	334.3	195.8						
2018	06-09-2018	12	535.2	319.4						
2018	06-09-2018	13	769.3	541.2						
2018	06-09-2018	14	744.2	633.5						
2018	06-09-2018	15	681.9	609.8						
2018	06-09-2018	16	550.7	654.2						
2018	06-09-2018	17	618.7	586.9						
2018	06-09-2018	18	408.9	333.3						
2018	06-09-2018	19	346.1	263.9						
2018	06-09-2018	20	321.6	205.2						
2018	06-09-2018	21	323.2	175.9						
2018	06-09-2018	22	231.7	128						
2018	06-09-2018	23	253.8	125.3						
2018	06-10-2018	0	270.9	133.8						
2018	06-10-2018	1	268.3	144.2						
2018	06-10-2018	2	231.6	136.8						
2018	06-10-2018	3	231.8	137.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-10-2018	4	231.9	139						
2018	06-10-2018	5	229.4	148.1						
2018	06-10-2018	6	305.5	144.2						
2018	06-10-2018	7	235	131.4						
2018	06-10-2018	8	219.2	127.8						
2018	06-10-2018	9	223.7	124.8						
2018	06-10-2018	10	237.4	126.4						
2018	06-10-2018	11	438.4	179.9						
2018	06-10-2018	12	504.4	268.7						
2018	06-10-2018	13	578.4	270.7						
2018	06-10-2018	14	410.3	344.4						
2018	06-10-2018	15	463.8	322.5						
2018	06-10-2018	16	813.8	423.2						
2018	06-10-2018	17	961.9	495.9						
2018	06-10-2018	18	586.1	305.5						
2018	06-10-2018	19	395	214.5						
2018	06-10-2018	20	297	167.3						
2018	06-10-2018	21	233	120.9						
2018	06-10-2018	22	251	123.1						
2018	06-10-2018	23	170.478	130.5						
2018	06-11-2018	0		127.1						
2018	06-11-2018	1		132.2						
2018	06-11-2018	2		133.2						
2018	06-11-2018	3		128.6						
2018	06-11-2018	4		126.5						
2018	06-11-2018	5		97.3						
2018	06-11-2018	6		130.4						
2018	06-11-2018	7		111.4						
2018	06-11-2018	8		132.1						
2018	06-11-2018	9		128.1						
2018	06-11-2018	10		130						
2018	06-11-2018	11		132.4						
2018	06-11-2018	12		131.8						
2018	06-11-2018	13		132.2						
2018	06-11-2018	14		133						
2018	06-11-2018	15		136.5						
2018	06-11-2018	16		129.7						
2018	06-11-2018	17		129.4						
2018	06-11-2018	18		126.3						
2018	06-11-2018	19		135.5						
2018	06-11-2018	20		133.5						
2018	06-11-2018	21		138.1						
2018	06-11-2018	22		145						
2018	06-11-2018	23		151.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-12-2018	0		158.3						
2018	06-12-2018	1		154.6						
2018	06-12-2018	2		151.1						
2018	06-12-2018	3		214						
2018	06-12-2018	4		355.5						
2018	06-12-2018	5		600.8						
2018	06-12-2018	6		1133.2						
2018	06-12-2018	7		1273						
2018	06-12-2018	8		1042.4						
2018	06-12-2018	9		963.3						
2018	06-12-2018	10		913.5		0				
2018	06-12-2018	11		701.9		0				
2018	06-12-2018	12		685.9		0				
2018	06-12-2018	13		684.5		0				
2018	06-12-2018	14		640.4		0				
2018	06-12-2018	15		687.9		0				
2018	06-12-2018	16		669.4		0	0			
2018	06-12-2018	17		689.6		0	0			
2018	06-12-2018	18		559.4		0	2.2			
2018	06-12-2018	19		435.5		0	153.5			
2018	06-12-2018	20		318.6		0	201.5			
2018	06-12-2018	21		220.7		0	118.9			
2018	06-12-2018	22		145.3		0	107.2			
2018	06-12-2018	23		122.6		0	119			
2018	06-13-2018	0		133.9		0	187.8			
2018	06-13-2018	1		130.8		0	415.7			
2018	06-13-2018	2		127.3		0	600.5			
2018	06-13-2018	3		138.5		0	1079.5			
2018	06-13-2018	4		126.1		0	1610			
2018	06-13-2018	5		49		0	1706.1			
2018	06-13-2018	6		61.6			1537.3			
2018	06-13-2018	7		71.4			1483.6			
2018	06-13-2018	8		68.4			1633.6			
2018	06-13-2018	9		69			1736.5			
2018	06-13-2018	10		119.2			1890.8			
2018	06-13-2018	11		417.8			1958.6			
2018	06-13-2018	12		678.7			1984.9			
2018	06-13-2018	13		991.8			2092.1			
2018	06-13-2018	14		1474.3			2333.6			
2018	06-13-2018	15		777.3			2590.1			
2018	06-13-2018	16		589.4			2921			
2018	06-13-2018	17		514.6			3022.8			
2018	06-13-2018	18		465.5			3001.6			
2018	06-13-2018	19		380.2			3135.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-13-2018	20		266.1			2994.5			
2018	06-13-2018	21		300.6			2945.6			
2018	06-13-2018	22		208.7			2691.9			
2018	06-13-2018	23		126.7			2535.2			
2018	06-14-2018	0		77.9			2281.6			
2018	06-14-2018	1		50.2			2033.7			
2018	06-14-2018	2		50.9			1874.8			
2018	06-14-2018	3		69.1			1871.7			
2018	06-14-2018	4		104.2			1861.8			
2018	06-14-2018	5		169.2			1881.2			
2018	06-14-2018	6		176.1			1872.6			
2018	06-14-2018	7		154.3			1890			
2018	06-14-2018	8		125.7			2021			
2018	06-14-2018	9	0	236.1			2223			
2018	06-14-2018	10	0	271.4			2261.2			
2018	06-14-2018	11	0	309.8			1978.8			
2018	06-14-2018	12	0	406.6			2016.9			
2018	06-14-2018	13	0	611.2			2033.1			
2018	06-14-2018	14	0	623.5			2080			
2018	06-14-2018	15	0	674.5			2463.8			
2018	06-14-2018	16	0	603.7			2760			
2018	06-14-2018	17	0	485			2806.3			
2018	06-14-2018	18	0	377.6			2853.3			
2018	06-14-2018	19	0	275.8			2663.6			
2018	06-14-2018	20	0	171.1			2333			
2018	06-14-2018	21	1.1	97.8			2092.7			
2018	06-14-2018	22	7.7	55.1			1932.6			
2018	06-14-2018	23	15.1	47.4			1875.5			
2018	06-15-2018	0	21.9	51.6			1855.8			
2018	06-15-2018	1	30.2	62.9			1866.3			
2018	06-15-2018	2	121	77.1			1869.8			
2018	06-15-2018	3	369.6	80.8			1856.9			
2018	06-15-2018	4	417	82.1			1863.9			
2018	06-15-2018	5	152.9	84.7			1820.2			
2018	06-15-2018	6	132.4	96.5			1659.772			
2018	06-15-2018	7	130.2	98.4		0				
2018	06-15-2018	8	109.3	92.2		0				
2018	06-15-2018	9	112	89.3		0				
2018	06-15-2018	10	32	99.9		0				
2018	06-15-2018	11	34.5	144.2		0				
2018	06-15-2018	12	93.7	204.2		0				
2018	06-15-2018	13	138.8	258.5		0				
2018	06-15-2018	14	257.5	305.4		0				
2018	06-15-2018	15	328.4	484.7		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-15-2018	16	589.6	681		0				
2018	06-15-2018	17	489.4	683.7		0				
2018	06-15-2018	18	486.6	540.7		0				
2018	06-15-2018	19	310.9	447		0				
2018	06-15-2018	20	233.9	319.7		0				
2018	06-15-2018	21	164.3	211.7		0				
2018	06-15-2018	22	119.2	137.5		0				
2018	06-15-2018	23	114.2	93.2		0				
2018	06-16-2018	0	106	73.2		0				
2018	06-16-2018	1	92.7	72.6		0				
2018	06-16-2018	2	71.7	72.5		0				
2018	06-16-2018	3	62.6	80.1		0				
2018	06-16-2018	4	59.3	78.9		0				
2018	06-16-2018	5	56.9	77.8		0				
2018	06-16-2018	6	94	73.8		0				
2018	06-16-2018	7	82.5	81.6		0				
2018	06-16-2018	8	67.7	79.4		0				
2018	06-16-2018	9	67.5	98.3		0				
2018	06-16-2018	10	115.4	150.5		0				
2018	06-16-2018	11	223.9	203.6		0				
2018	06-16-2018	12	291.6	267.1		0				
2018	06-16-2018	13	198.9	213.6		0				
2018	06-16-2018	14	346.4	286.3		0				
2018	06-16-2018	15	577.3	597		0				
2018	06-16-2018	16	545	631.4		0				
2018	06-16-2018	17	417.2	593.9		0				
2018	06-16-2018	18	290.5	533.4		0				
2018	06-16-2018	19	242	472.2		0				
2018	06-16-2018	20	273.3	472.7		0				
2018	06-16-2018	21	338.8	449		0				
2018	06-16-2018	22	242.2	331.7		0				
2018	06-16-2018	23	194.2	299.7						
2018	06-17-2018	0	160.5	223.2						
2018	06-17-2018	1	107	139.8						
2018	06-17-2018	2	86.5	100.6						
2018	06-17-2018	3	84.9	91.5						
2018	06-17-2018	4	91.7	93.7						
2018	06-17-2018	5	72.5	73.4						
2018	06-17-2018	6	121	88.8						
2018	06-17-2018	7	73.5	95.9		0				
2018	06-17-2018	8	89.4	111.5		0				
2018	06-17-2018	9	91.8	121.1		0	0			
2018	06-17-2018	10	150.1	249.5		0	0			
2018	06-17-2018	11	283.2	566.5		0	0			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-17-2018	12	374	842.3		0	88.2			
2018	06-17-2018	13	535.1	769.3		0	275.3			
2018	06-17-2018	14	597.9	691.9		0	318.1			
2018	06-17-2018	15	729.6	787.3		0	233.8			
2018	06-17-2018	16	648.6	834.3		0	238.6			
2018	06-17-2018	17	626.3	755.3		0	291.8			
2018	06-17-2018	18	638.2	609.3	0.002	0	422.8			
2018	06-17-2018	19	569.9	471.2	0.026	0	470.4			
2018	06-17-2018	20	690.2	647.6	0.039	0	826.6			
2018	06-17-2018	21	602.1	627.2	0.044	0	1452.9			
2018	06-17-2018	22	397.8	371.5	0.061	0	1621.6			
2018	06-17-2018	23	291.5	279.1	0.059	0	1798.7			
2018	06-18-2018	0	262.1	157.8	0.058	0	1771.1			
2018	06-18-2018	1	196.4	105.2	0.059	0	1814			
2018	06-18-2018	2	154.3	74.1	0.074	0	1842.7			
2018	06-18-2018	3	129.6	83.4	0.094	0	1857.8			
2018	06-18-2018	4	126.3	87.7	0.183	0	1857.6			
2018	06-18-2018	5	105.6	87.3	0.301	0	1859.6			
2018	06-18-2018	6	156.7	81.5	0.322	34.9	1856.6			
2018	06-18-2018	7	101.5	99.1	0.321	318.5	1864			
2018	06-18-2018	8	120.3	139.8	0.321	373.4	1920.1			
2018	06-18-2018	9	163.1	247.1	0.319	411.2	1885.2			
2018	06-18-2018	10	250	308.7	0.324	413.9	1905.4			
2018	06-18-2018	11	366.1	448.5	0.322	382.9	1878.6			
2018	06-18-2018	12	605.4	719.7	0.321	352.7	1994.8			
2018	06-18-2018	13	820.9	767	0.321	333.8	2248.9			
2018	06-18-2018	14	907.1	667.7	0.327	442.5	2420			
2018	06-18-2018	15	859.7	648.2	0.375	669	2857.6			
2018	06-18-2018	16	1594.6	551.1	0.332	594.7	3072			
2018	06-18-2018	17	1768.9	483.7	0.398	953.2	3347.7			
2018	06-18-2018	18	1698.8	423.3	0.326	845.6	3274.9			
2018	06-18-2018	19	1217.3	368.1	0.326	843.2	3123.1			
2018	06-18-2018	20	1123.7	435.6	0.326	689	2965.1			
2018	06-18-2018	21	739.5	371.5	0.326	480.7	2660.1			
2018	06-18-2018	22	613.1	250.6	0.29	494.2	2284.2			
2018	06-18-2018	23	570.5	189.9	0.013	275.816	2017.7			
2018	06-19-2018	0	358.6	158.1			1903.5			
2018	06-19-2018	1	270.7	114.9			1904.8			
2018	06-19-2018	2	241.6	62.8			2242.8			
2018	06-19-2018	3	239.5	63.8			2795.7			
2018	06-19-2018	4	229.7	83.2			3146.3			
2018	06-19-2018	5	146.5	64.7			3321.9			
2018	06-19-2018	6	216.4	85.3			3386.6			
2018	06-19-2018	7	210.4	155.4			3395.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-19-2018	8	214.2	207.8			3446.3			
2018	06-19-2018	9	287.1	304.2			3413.5			
2018	06-19-2018	10	716.8	646.9			3421.6			
2018	06-19-2018	11	905.2	1132.4			3424.7			
2018	06-19-2018	12	761.4	1205.3			3402			
2018	06-19-2018	13	757.8	1040.6			3413.7			
2018	06-19-2018	14	856.8	986.1			3434.7			
2018	06-19-2018	15	905.3	868.9			3423.4			
2018	06-19-2018	16	852.8	802.2			3432.7			
2018	06-19-2018	17	738.3	750.1			3453.6			
2018	06-19-2018	18	710.9	724.2			3446.1			
2018	06-19-2018	19	494.5	565.6			3307.3			
2018	06-19-2018	20	383.5	357.8			3018.9			
2018	06-19-2018	21	245.5	210			2634			
2018	06-19-2018	22	148	120.9			2154			
2018	06-19-2018	23	111.3	85.8			1946.3			
2018	06-20-2018	0	120.8	94.1			1833.5			
2018	06-20-2018	1	117.8	110.2			1716.5			
2018	06-20-2018	2	109.5	98.9			2120.4			
2018	06-20-2018	3	107.2	98.6			2672.7			
2018	06-20-2018	4	111.3	98.1			3103.9			
2018	06-20-2018	5	114.5	98.2			3204.3			
2018	06-20-2018	6	165.9	93.2			3373			
2018	06-20-2018	7	109.6	104.1			3352.7			
2018	06-20-2018	8	103	116.7			3351.8			
2018	06-20-2018	9	145	176.1			3325.7			
2018	06-20-2018	10	204.5	275.1			3311.9			
2018	06-20-2018	11	398.3	406.4			3294.5			
2018	06-20-2018	12	610	459.6			3294.2			
2018	06-20-2018	13	853.7	856.6			3301			
2018	06-20-2018	14	872.2	883.2			3275.2			
2018	06-20-2018	15	730.9	879.3			3286.3			
2018	06-20-2018	16	813.5	917.5			3201.5			
2018	06-20-2018	17	869.6	803.6			3012.1			
2018	06-20-2018	18	1032	927.5			2967.5			
2018	06-20-2018	19	733.8	701			2809.1			
2018	06-20-2018	20	333.4	500.1			2521.1			
2018	06-20-2018	21	224.2	288.8			2102.4			
2018	06-20-2018	22	174.4	170.6			1867.9			
2018	06-20-2018	23	127.6	114.7			1779.7			
2018	06-21-2018	0	125.1	109.9			1628.9			
2018	06-21-2018	1	118.5	107.7			1685			
2018	06-21-2018	2	112	100.1			1699.2			
2018	06-21-2018	3	109.9	102.6			1861.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-21-2018	4	110.2	108.7			1839.3			
2018	06-21-2018	5	99.3	88.7			1864.3			
2018	06-21-2018	6	163.4	108.6			1850.3			
2018	06-21-2018	7	121.4	115.9			1835.5			
2018	06-21-2018	8	126.1	124.5			2016.5			
2018	06-21-2018	9	170.5	151.8			2024.5			
2018	06-21-2018	10	272.7	202.7			2250.2			
2018	06-21-2018	11	521.1	296.6			2380.3			
2018	06-21-2018	12	895.2	479.4			2775.9			
2018	06-21-2018	13	864.1	672.6			3004.9			
2018	06-21-2018	14	1006.9	800.6			3187.4			
2018	06-21-2018	15	987.3	869.6			3232.4			
2018	06-21-2018	16	975.2	878.2			3221.5			
2018	06-21-2018	17	999.1	876.5			3226.5			
2018	06-21-2018	18	1024.3	768.8		0	3160.4			
2018	06-21-2018	19	1058.6	841.4		0	3191.4			
2018	06-21-2018	20	942.1	833.3		0	3150.7			
2018	06-21-2018	21	669	549.7		0	2958.5			
2018	06-21-2018	22	323.7	340.7		0	2023.1			
2018	06-21-2018	23	135.54	237.8		0	965.12			
2018	06-22-2018	0		154.4		0				
2018	06-22-2018	1		98.5		0				
2018	06-22-2018	2		96.7		0				
2018	06-22-2018	3		98.8		0				
2018	06-22-2018	4		97		0				
2018	06-22-2018	5		83.4		0				
2018	06-22-2018	6		92.2		0				
2018	06-22-2018	7		187.6		0				
2018	06-22-2018	8		265.3		0				
2018	06-22-2018	9		327.3		0				
2018	06-22-2018	10		501.7		0				
2018	06-22-2018	11		680.5		0				
2018	06-22-2018	12		883.4		0				
2018	06-22-2018	13		997.5		0				
2018	06-22-2018	14		1015.5		0				
2018	06-22-2018	15		1350.6		0				
2018	06-22-2018	16		1084.4						
2018	06-22-2018	17		939.3						
2018	06-22-2018	18		714.3						
2018	06-22-2018	19		620.4						
2018	06-22-2018	20		581.5						
2018	06-22-2018	21		473.3						
2018	06-22-2018	22		307.5						
2018	06-22-2018	23		246.3						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-23-2018	0		236.1						
2018	06-23-2018	1		232.5						
2018	06-23-2018	2		228						
2018	06-23-2018	3		237.1						
2018	06-23-2018	4		234.4						
2018	06-23-2018	5		178.4						
2018	06-23-2018	6		234.8						
2018	06-23-2018	7		244.4						
2018	06-23-2018	8		247.8						
2018	06-23-2018	9		244.3						
2018	06-23-2018	10		194.7						
2018	06-23-2018	11		168.4						
2018	06-23-2018	12		49.9						
2018	06-23-2018	13		30						
2018	06-23-2018	14		131.9						
2018	06-23-2018	15		128.1						
2018	06-23-2018	16		190.4						
2018	06-23-2018	17		312.4						
2018	06-23-2018	18		818.7						
2018	06-23-2018	19		611.6						
2018	06-23-2018	20		544.1						
2018	06-23-2018	21		379.5						
2018	06-23-2018	22		468						
2018	06-23-2018	23		175.3						
2018	06-24-2018	0		53.9						
2018	06-24-2018	1		20.2						
2018	06-24-2018	2		70.1						
2018	06-24-2018	3		24						
2018	06-24-2018	4		7.9						
2018	06-24-2018	5		9.6						
2018	06-24-2018	6		33.4						
2018	06-24-2018	7		41.6						
2018	06-24-2018	8		48.6						
2018	06-24-2018	9		81.7						
2018	06-24-2018	10		263.4						
2018	06-24-2018	11		405.7						
2018	06-24-2018	12		540.2						
2018	06-24-2018	13		715.5						
2018	06-24-2018	14		760.5						
2018	06-24-2018	15		891.4						
2018	06-24-2018	16		991.8						
2018	06-24-2018	17		1162.3						
2018	06-24-2018	18		1124.1						
2018	06-24-2018	19		848.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-24-2018	20		612.5						
2018	06-24-2018	21		457.1						
2018	06-24-2018	22		311.5						
2018	06-24-2018	23		241						
2018	06-25-2018	0		195						
2018	06-25-2018	1		160.9						
2018	06-25-2018	2		153.7						
2018	06-25-2018	3		156.7						
2018	06-25-2018	4		159.2						
2018	06-25-2018	5		126.8						
2018	06-25-2018	6		170.2						
2018	06-25-2018	7		181.6						
2018	06-25-2018	8		180.8						
2018	06-25-2018	9		266.6						
2018	06-25-2018	10		338.9						
2018	06-25-2018	11		498.4						
2018	06-25-2018	12		704.9						
2018	06-25-2018	13		1106.7						
2018	06-25-2018	14		989.4						
2018	06-25-2018	15		1225.4						
2018	06-25-2018	16		1051.7						
2018	06-25-2018	17		909.7						
2018	06-25-2018	18		764.9						
2018	06-25-2018	19		646.9						
2018	06-25-2018	20		542.3						
2018	06-25-2018	21		436.3						
2018	06-25-2018	22		323						
2018	06-25-2018	23		225.1						
2018	06-26-2018	0		166.1						
2018	06-26-2018	1		163.3						
2018	06-26-2018	2		160.7						
2018	06-26-2018	3		166.7						
2018	06-26-2018	4		161.4						
2018	06-26-2018	5		151.6						
2018	06-26-2018	6		142.3						
2018	06-26-2018	7		150.5						
2018	06-26-2018	8		143.8						
2018	06-26-2018	9		136.3						
2018	06-26-2018	10		135.3						
2018	06-26-2018	11		281.7						
2018	06-26-2018	12		392.3						
2018	06-26-2018	13		678						
2018	06-26-2018	14		993.3						
2018	06-26-2018	15		1101.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-26-2018	16		907.5						
2018	06-26-2018	17		707.1						
2018	06-26-2018	18		649						
2018	06-26-2018	19		626.1						
2018	06-26-2018	20		610.1						
2018	06-26-2018	21		415.8						
2018	06-26-2018	22		300.5						
2018	06-26-2018	23		282.3						
2018	06-27-2018	0		210.3						
2018	06-27-2018	1		199.2						
2018	06-27-2018	2		183						
2018	06-27-2018	3	0	189.5						
2018	06-27-2018	4	0	189						
2018	06-27-2018	5	0	144.7						
2018	06-27-2018	6	0	181.6						
2018	06-27-2018	7	0	189.9						
2018	06-27-2018	8	0	195.2						
2018	06-27-2018	9	0	204						
2018	06-27-2018	10	0	289.8						
2018	06-27-2018	11	0	303.1						
2018	06-27-2018	12	0	287.7						
2018	06-27-2018	13	0	264.2						
2018	06-27-2018	14	0	260.1						
2018	06-27-2018	15	0	261.7						
2018	06-27-2018	16	0	262						
2018	06-27-2018	17	0	263.3						
2018	06-27-2018	18	0	260.5						
2018	06-27-2018	19	0	260.2						
2018	06-27-2018	20	0	268.6						
2018	06-27-2018	21	0	271						
2018	06-27-2018	22	0	202.8						
2018	06-27-2018	23	0	194.4						
2018	06-28-2018	0	2.7	192.2						
2018	06-28-2018	1	2.8	178.7		0				
2018	06-28-2018	2	4.1	174.3		0				
2018	06-28-2018	3	34.7	175.5		0				
2018	06-28-2018	4	69.8	176.1		0				
2018	06-28-2018	5	102.9	176.3		0				
2018	06-28-2018	6	272.9	170.6		0				
2018	06-28-2018	7	399.1	223.4		0				
2018	06-28-2018	8	238.8	355.2		0				
2018	06-28-2018	9	398.1	528.3		0				
2018	06-28-2018	10	589.1	658.2		0				
2018	06-28-2018	11	891	1051.8		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-28-2018	12	1148.7	1244.8		0				
2018	06-28-2018	13	1102.5	1454.7		0				
2018	06-28-2018	14	1295.9	1598.7		0				
2018	06-28-2018	15	2011	1604.5		0				
2018	06-28-2018	16	1721.6	1804.3		0				
2018	06-28-2018	17	1633.3	1970.8		0				
2018	06-28-2018	18	1432.6	1922.7		0				
2018	06-28-2018	19	1040.8	1880.6		0				
2018	06-28-2018	20	927.7	1910.2		0				
2018	06-28-2018	21	777	1592		0				
2018	06-28-2018	22	635.9	1241.8		0				
2018	06-28-2018	23	616	890.6		0				
2018	06-29-2018	0	491.2	722.1		0	0			
2018	06-29-2018	1	236.7	565.7		0	0			
2018	06-29-2018	2	150.2	351.1		0	0			
2018	06-29-2018	3	149.2	286.1		0	0			
2018	06-29-2018	4	167.1	207.1		0	0			
2018	06-29-2018	5	175.1	182.9		0	0			
2018	06-29-2018	6	237.2	224.1		0	0			
2018	06-29-2018	7	229.4	231.3		0	0			
2018	06-29-2018	8	247.7	274.5		0	216.3			
2018	06-29-2018	9	247.8	329.1		0	399.3			
2018	06-29-2018	10	226.9	376.4		0	590.9			
2018	06-29-2018	11	319.5	366.6		0	849.6			
2018	06-29-2018	12	312	261.4		0	1223.6			
2018	06-29-2018	13	186.3	317.2		0	1405.4			
2018	06-29-2018	14	247.2	443.3		0	1706.6			
2018	06-29-2018	15	749.2	703.2		0	2261.4			
2018	06-29-2018	16	804.4	754.9			2674			
2018	06-29-2018	17	502.2	750.4			3113.7			
2018	06-29-2018	18	359.1	702.7			3021.1			
2018	06-29-2018	19	218.3	701.5			3026.9			
2018	06-29-2018	20	265.6	724.4			3055.7			
2018	06-29-2018	21	183	447.8			2886.1			
2018	06-29-2018	22	117	240.5			2662.2			
2018	06-29-2018	23	73.8	140.1			2427.6			
2018	06-30-2018	0	47.3	94.7			2188.8			
2018	06-30-2018	1	55.3	60.5			1953.6			
2018	06-30-2018	2	60.2	69.7			1940.9			
2018	06-30-2018	3	61.5	74.3			1939.1			
2018	06-30-2018	4	61.1	73.4			1889			
2018	06-30-2018	5	57.8	73.3			1939.5			
2018	06-30-2018	6	118.9	73			1942.1			
2018	06-30-2018	7	88.6	80.8			1972.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	06-30-2018	8	100.7	92.5			2021.3			
2018	06-30-2018	9	137	130			2353.8			
2018	06-30-2018	10	187.5	231.8			2576.5			
2018	06-30-2018	11	311.6	387.5			2961.6			
2018	06-30-2018	12	614.5	626.7			3138.4			
2018	06-30-2018	13	709	636.3			3354.4			
2018	06-30-2018	14	760.1	669.7			3466.3			
2018	06-30-2018	15	796	672.1			3482.6			
2018	06-30-2018	16	770.2	682			3481.9			
2018	06-30-2018	17	776.6	796.9			3493.2			
2018	06-30-2018	18	767.2	760.9			3489.3			
2018	06-30-2018	19	649.7	641.4			3395.9			
2018	06-30-2018	20	775.5	733.6			3009.9			
2018	06-30-2018	21	743.9	788.9			2651.1			
2018	06-30-2018	22	575.3	792.8			2413.8			
2018	06-30-2018	23	416.8	512			2239.6			
2018	07-01-2018	0	303.2	281.4			2032.3			
2018	07-01-2018	1	207	189			1768.2			
2018	07-01-2018	2	142.3	136.5			1677			
2018	07-01-2018	3	106.6	91.2			2108.2			
2018	07-01-2018	4	84.5	89.4			1715.6			
2018	07-01-2018	5	80.4	70.6			1859.7			
2018	07-01-2018	6	123.5	91.4			1876.3			
2018	07-01-2018	7	84.2	99			1907.3			
2018	07-01-2018	8	92.5	110.5			1880.8			
2018	07-01-2018	9	158.5	140.3			2252.4			
2018	07-01-2018	10	224.9	233			2407.3			
2018	07-01-2018	11	284.7	324.8			2476.9			
2018	07-01-2018	12	342.4	447.1			2838.7			
2018	07-01-2018	13	560.3	561.1			3187.1			
2018	07-01-2018	14	677	637.5			3422.3			
2018	07-01-2018	15	710.4	684.3			3462.7			
2018	07-01-2018	16	666.3	716.8		0	3482.8			
2018	07-01-2018	17	616.5	875.9		0	3518			
2018	07-01-2018	18	599.1	752.6		0	3506.5			
2018	07-01-2018	19	522.8	838.4		0	3456.1			
2018	07-01-2018	20	456.4	828.9		0	3329.4			
2018	07-01-2018	21	290.5	585.9		0	3171.7			
2018	07-01-2018	22	264.4	332.6		0	2877.1			
2018	07-01-2018	23	148.7	210.9		0	2610.9			
2018	07-02-2018	0	99.9	105.1	0.031	0	2240.4	0.094		
2018	07-02-2018	1	58.7	81.5	0.046	0	2056	0.103		
2018	07-02-2018	2	59.8	83.9	0.049	0	2052.8	120.648		
2018	07-02-2018	3	62.6	85.7	0.069	0	2048.7	563.032		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-02-2018	4	65.6	84.9	0.076	0	1960.1	565.831		
2018	07-02-2018	5	63.7	81.5	0.076	0	1978.6	559.631		
2018	07-02-2018	6	122.4	81.2	0.065	0	1956.8	554.831		
2018	07-02-2018	7	108	160.9	0.057	0	2042.4	547.031		
2018	07-02-2018	8	193.4	314.6	0.056	12.9	2457.7	548.131		
2018	07-02-2018	9	299.8	512.2	0.086	283.1	2708.6	547.531		
2018	07-02-2018	10	319.4	619	0.156	373	2791.6	572.442		
2018	07-02-2018	11	456.1	708.9	0.316	645.8	3024.6	577.956		
2018	07-02-2018	12	495.3	679.9	0.331	835.9	3096.4	744.039		
2018	07-02-2018	13	485.5	592.5	0.326	408	2944.1	804.606		
2018	07-02-2018	14	347.8	405.6	0.331	422.2	2940.1	789.6		
2018	07-02-2018	15	304.8	300.3	0.326	423.6	2910.2	787.5		
2018	07-02-2018	16	271	307.8	0.329	576.5	2923.8	690.3		
2018	07-02-2018	17	217.5	315.1	0.366	753.2	2940.7	396.48		
2018	07-02-2018	18	204	360.5	0.253	819.7	2957.1			
2018	07-02-2018	19	184.9	397		307.9	2846.5			
2018	07-02-2018	20	153.9	378.2		641	2727.9			
2018	07-02-2018	21	120.3	265.8		553	2525.9			
2018	07-02-2018	22	107	120.2		705.6	2459.5			
2018	07-02-2018	23	108	118.7		386.396	2292.7			
2018	07-03-2018	0	106.9	118			2145.6			
2018	07-03-2018	1	103.9	104.3			1973			
2018	07-03-2018	2	98.6	100.2			1999.6			
2018	07-03-2018	3	93.6	102.6			2013.2			
2018	07-03-2018	4	90.8	106.1			2005.2			
2018	07-03-2018	5	85.4	83.9			1971.8			
2018	07-03-2018	6	129.5	113.6			2020.1			
2018	07-03-2018	7	92.4	175.5	0.002		1974			
2018	07-03-2018	8	164.9	168.8	0.052		1901.9			
2018	07-03-2018	9	136.5	113.3	0.053		2464.9			
2018	07-03-2018	10	147.8	115.5	0.075		2984.6			
2018	07-03-2018	11	252.5	246.9	0.069		3039.2			
2018	07-03-2018	12	408	316.2	0.2		3156.4			
2018	07-03-2018	13	614.2	607.8	0.319		3133.3			
2018	07-03-2018	14	622.1	697.7	0.331		3137.7			
2018	07-03-2018	15	539.9	757.7	0.325		3111.4			
2018	07-03-2018	16	305.4	563.9	0.317		3045			
2018	07-03-2018	17	234.6	639.9	0.045		2989.5			
2018	07-03-2018	18	228	554.2			3015.6			
2018	07-03-2018	19	206.2	475.1			2945.2			
2018	07-03-2018	20	223.6	539.7			2938.8			
2018	07-03-2018	21	147.4	276.9			2725.6			
2018	07-03-2018	22	137.8	101.8			2484.4			
2018	07-03-2018	23	133.1	107.3			2143.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-04-2018	0	129.1	105.9			1916			
2018	07-04-2018	1	116.2	111.7			1891.2			
2018	07-04-2018	2	119.4	97.1			1863			
2018	07-04-2018	3	117.4	97.3			1908.4			
2018	07-04-2018	4	107.2	95.4			1925.4			
2018	07-04-2018	5	99.7	96.7			1884.8			
2018	07-04-2018	6	125.1	89.6			1873			
2018	07-04-2018	7	74.6	100			1786.3			
2018	07-04-2018	8	120.7	121.1			2070.9			
2018	07-04-2018	9	206.4	184			2015			
2018	07-04-2018	10	453.2	282.6			2452.9			
2018	07-04-2018	11	624.6	474.4			2766.8			
2018	07-04-2018	12	664.6	763			2921.1			
2018	07-04-2018	13	728.2	796.3			3118.6			
2018	07-04-2018	14	675.1	770.3			3138			
2018	07-04-2018	15	694.4	740.9			3163.3			
2018	07-04-2018	16	788.6	860.2			3140.8			
2018	07-04-2018	17	585.1	718.8			3086			
2018	07-04-2018	18	376.7	537.3			3140.1			
2018	07-04-2018	19	422.2	532.5			3118.2			
2018	07-04-2018	20	348.4	512.2			2989.8			
2018	07-04-2018	21	288.7	340.1			2749.8			
2018	07-04-2018	22	174.3	187.5			2513.8			
2018	07-04-2018	23	99.9	129.7			2203			
2018	07-05-2018	0	75.5	85.9			2039.4			
2018	07-05-2018	1	60	64.1			1944.1			
2018	07-05-2018	2	55.8	60.3			1953.6			
2018	07-05-2018	3	51.1	65.2			1968.6			
2018	07-05-2018	4	52.3	68.1			1984.6			
2018	07-05-2018	5	49.7	51.8			1942.7			
2018	07-05-2018	6	117.1	69.3			1940.9			
2018	07-05-2018	7	90.6	86.8			2008.6			
2018	07-05-2018	8	139.9	140.6			2532.9			
2018	07-05-2018	9	194.1	241.9			2654.9			
2018	07-05-2018	10	370.2	341.4			2858.8			
2018	07-05-2018	11	507	643.8			3137.6			
2018	07-05-2018	12	506.9	674.4			3191.9			
2018	07-05-2018	13	695.2	897.5			3141.6			
2018	07-05-2018	14	693.4	841.6			3146.2			
2018	07-05-2018	15	751	718.6			3139.8			
2018	07-05-2018	16	739.8	610.6			3111.9			
2018	07-05-2018	17	528.4	421.6		0	3057			
2018	07-05-2018	18	398.4	263.7		0	2920.1			
2018	07-05-2018	19	425.8	272.8		0	2723			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-05-2018	20	445.3	304.8		0	2957.9			
2018	07-05-2018	21	376.2	269.9		0	2794.3			
2018	07-05-2018	22	277.3	238.2		0	2283.2			
2018	07-05-2018	23	199.1	212.4		0	813.892			
2018	07-06-2018	0	170.4	157.4		0				
2018	07-06-2018	1	164	110.6		0				
2018	07-06-2018	2	170	101.7		0				
2018	07-06-2018	3	140.8	177		0				
2018	07-06-2018	4	142.3	173.2		0				
2018	07-06-2018	5	134.3	170.5		0				
2018	07-06-2018	6	185.5	162.9		0				
2018	07-06-2018	7	162.7	178.4		0				
2018	07-06-2018	8	227.8	199.1		0				
2018	07-06-2018	9	274.7	209.9						
2018	07-06-2018	10	345.5	274.9						
2018	07-06-2018	11	407.4	328.1						
2018	07-06-2018	12	669.2	525.9						
2018	07-06-2018	13	1100.5	873.7						
2018	07-06-2018	14	1547.5	1518.9						
2018	07-06-2018	15	1390.5	1438.5						
2018	07-06-2018	16	1074.4	1217.3						
2018	07-06-2018	17	663.3	781.2						
2018	07-06-2018	18	371.1	417.4						
2018	07-06-2018	19	272.3	269.6						
2018	07-06-2018	20	217.7	182						
2018	07-06-2018	21	177.8	122.5						
2018	07-06-2018	22	171.8	87.1						
2018	07-06-2018	23	170.2	120.9						
2018	07-07-2018	0	171.6	146.2						
2018	07-07-2018	1	177.9	165.8						
2018	07-07-2018	2	186	163						
2018	07-07-2018	3	182.5	157.7						
2018	07-07-2018	4	176.9	157.8						
2018	07-07-2018	5	176.8	118.2						
2018	07-07-2018	6	228.6	155.3						
2018	07-07-2018	7	193.2	162.1						
2018	07-07-2018	8	190.6	162						
2018	07-07-2018	9	187.1	164.8						
2018	07-07-2018	10	198.5	167.2						
2018	07-07-2018	11	200.7	174.9						
2018	07-07-2018	12	393.3	406.1						
2018	07-07-2018	13	423.9	527.5						
2018	07-07-2018	14	432.2	524.7						
2018	07-07-2018	15	380.7	641.3						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-07-2018	16	412.7	765.5						
2018	07-07-2018	17	626.6	821.4						
2018	07-07-2018	18	385.7	533						
2018	07-07-2018	19	307.3	320.9						
2018	07-07-2018	20	205	203.9						
2018	07-07-2018	21	180.7	179.3						
2018	07-07-2018	22	174.9	177.9						
2018	07-07-2018	23	174.7	186.9						
2018	07-08-2018	0	180.2	190.1						
2018	07-08-2018	1	184.1	190.4						
2018	07-08-2018	2	184.3	181.7						
2018	07-08-2018	3	177	179.3						
2018	07-08-2018	4	168.6	177.7						
2018	07-08-2018	5	158.3	172.2						
2018	07-08-2018	6	213.9	167.4						
2018	07-08-2018	7	169.8	171.8						
2018	07-08-2018	8	172.2	170.4						
2018	07-08-2018	9	155.7	168.7						
2018	07-08-2018	10	156.7	161.6						
2018	07-08-2018	11	239.3	259.8						
2018	07-08-2018	12	251.7	529						
2018	07-08-2018	13	339.3	636.5						
2018	07-08-2018	14	534.6	694.1						
2018	07-08-2018	15	842.2	886.9						
2018	07-08-2018	16	1370	2134.5						
2018	07-08-2018	17	1322.6	1652.3						
2018	07-08-2018	18	1077.2	1220.7						
2018	07-08-2018	19	945.4	1150.4						
2018	07-08-2018	20	721.4	674.4						
2018	07-08-2018	21	480.1	324.2						
2018	07-08-2018	22	244.9	196.8						
2018	07-08-2018	23	117.2	137.5						
2018	07-09-2018	0	90.7	110.4						
2018	07-09-2018	1	63.7	122.9						
2018	07-09-2018	2	66.7	151.7						
2018	07-09-2018	3	72.9	185.8						
2018	07-09-2018	4	79.5	169.7						
2018	07-09-2018	5	78.9	122						
2018	07-09-2018	6	160.9	178.8						
2018	07-09-2018	7	164.4	211.4						
2018	07-09-2018	8	351.9	396.1						
2018	07-09-2018	9	535.2	552.6						
2018	07-09-2018	10	589.7	534.5						
2018	07-09-2018	11	533.2	574.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-09-2018	12	503.3	626.9						
2018	07-09-2018	13	677.6	756.3						
2018	07-09-2018	14	1501.6	1219.2						
2018	07-09-2018	15	621.5	1674						
2018	07-09-2018	16	104.7	1585.1						
2018	07-09-2018	17	153.4	1410.4						
2018	07-09-2018	18	246.5	1144.3						
2018	07-09-2018	19	304.9	862.3						
2018	07-09-2018	20	36.764	471.9						
2018	07-09-2018	21		335.3						
2018	07-09-2018	22		205.3						
2018	07-09-2018	23		142.6						
2018	07-10-2018	0		109.3						
2018	07-10-2018	1		128						
2018	07-10-2018	2		165.7						
2018	07-10-2018	3		194.1						
2018	07-10-2018	4		193.4						
2018	07-10-2018	5		198.4						
2018	07-10-2018	6		187.7						
2018	07-10-2018	7		193.2						
2018	07-10-2018	8		197.5						
2018	07-10-2018	9		292.1						
2018	07-10-2018	10		464.4						
2018	07-10-2018	11		738.7						
2018	07-10-2018	12		959.6						
2018	07-10-2018	13		1602.7						
2018	07-10-2018	14		1585						
2018	07-10-2018	15		1449.3						
2018	07-10-2018	16		1151.3						
2018	07-10-2018	17		1007.1						
2018	07-10-2018	18		751.7						
2018	07-10-2018	19		874.5						
2018	07-10-2018	20		978.7						
2018	07-10-2018	21		754.5						
2018	07-10-2018	22		479.1						
2018	07-10-2018	23		349.7						
2018	07-11-2018	0		243.8						
2018	07-11-2018	1		203.8						
2018	07-11-2018	2		195.6						
2018	07-11-2018	3		201.1						
2018	07-11-2018	4		202.1						
2018	07-11-2018	5		157.8						
2018	07-11-2018	6		212.7						
2018	07-11-2018	7		237						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-11-2018	8		237.3						
2018	07-11-2018	9		257.9						
2018	07-11-2018	10		335.8						
2018	07-11-2018	11		578.5						
2018	07-11-2018	12		602.8						
2018	07-11-2018	13		1120.3						
2018	07-11-2018	14		1665.9						
2018	07-11-2018	15		1693.3						
2018	07-11-2018	16		1390.7						
2018	07-11-2018	17		1177.4	0.002					
2018	07-11-2018	18		893.9	0.029					
2018	07-11-2018	19		480.4	0.044					
2018	07-11-2018	20		418	0.051					
2018	07-11-2018	21		259.3	0.057					
2018	07-11-2018	22		174.8	0.075					
2018	07-11-2018	23		109.4	0.097					
2018	07-12-2018	0		106.2	0.094		0			
2018	07-12-2018	1		143.1	0.053		0			
2018	07-12-2018	2		192.4	0.086		0			
2018	07-12-2018	3		209	0.074		0			
2018	07-12-2018	4		210.7	0.068		0			
2018	07-12-2018	5		209.1	0.068		0			
2018	07-12-2018	6		199	0.083		202			
2018	07-12-2018	7		225.6	0.077		259.5			
2018	07-12-2018	8		282.4	0.068		420.9			
2018	07-12-2018	9		431.1	0.068		429.8			
2018	07-12-2018	10		446.1	0.068		445.8			
2018	07-12-2018	11		543.7	0.068		493.4			
2018	07-12-2018	12		772.1	0.068		913.4			
2018	07-12-2018	13		954.2	0.064		1536			
2018	07-12-2018	14		1003.7	0.04		1727.6			
2018	07-12-2018	15		1380.5	0.013		1751.1			
2018	07-12-2018	16		1761.9	0.037		2178.3			
2018	07-12-2018	17		1826.7	0.046		2561.8			
2018	07-12-2018	18		1526.7	0.046		2713.6			
2018	07-12-2018	19		1566.2	0.047		2366.6			
2018	07-12-2018	20		1462.4	0.047		1420.9			
2018	07-12-2018	21		876.6	0.05		13.995			
2018	07-12-2018	22		568.5	0.053					
2018	07-12-2018	23		440.1	0.058					
2018	07-13-2018	0		296.3	0.059					
2018	07-13-2018	1		237.1	0.055					
2018	07-13-2018	2		224.3	0.006					
2018	07-13-2018	3		235.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-13-2018	4		236.5						
2018	07-13-2018	5		178.7						
2018	07-13-2018	6		228.5						
2018	07-13-2018	7		246.7						
2018	07-13-2018	8		353.8						
2018	07-13-2018	9		462.1						
2018	07-13-2018	10		414.8						
2018	07-13-2018	11		587.6						
2018	07-13-2018	12		842.7						
2018	07-13-2018	13		1291						
2018	07-13-2018	14		1656						
2018	07-13-2018	15		1663.9						
2018	07-13-2018	16		1749.5						
2018	07-13-2018	17		1654.3						
2018	07-13-2018	18		1204.3						
2018	07-13-2018	19		1035.4						
2018	07-13-2018	20		882						
2018	07-13-2018	21		629.6						
2018	07-13-2018	22		576.3						
2018	07-13-2018	23		374.9						
2018	07-14-2018	0		236.9						
2018	07-14-2018	1		234.7						
2018	07-14-2018	2		213.3						
2018	07-14-2018	3		210.2						
2018	07-14-2018	4		209.1						
2018	07-14-2018	5		208.9						
2018	07-14-2018	6		193.7						
2018	07-14-2018	7		210.1						
2018	07-14-2018	8		207.7						
2018	07-14-2018	9		218.2						
2018	07-14-2018	10		280						
2018	07-14-2018	11		301.4						
2018	07-14-2018	12		263						
2018	07-14-2018	13		374.9						
2018	07-14-2018	14		662.5						
2018	07-14-2018	15		1225.8						
2018	07-14-2018	16		1691.9						
2018	07-14-2018	17		1791.5						
2018	07-14-2018	18		1632.4						
2018	07-14-2018	19		1448.8						
2018	07-14-2018	20		1285						
2018	07-14-2018	21		1133.6						
2018	07-14-2018	22		1016.3						
2018	07-14-2018	23		846.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-15-2018	0	0	582.4						
2018	07-15-2018	1	0	349.6						
2018	07-15-2018	2	0	259.5						
2018	07-15-2018	3	0	222.1						
2018	07-15-2018	4	0	220.4						
2018	07-15-2018	5	0	167.2						
2018	07-15-2018	6	0	195.8						
2018	07-15-2018	7	0	220.6						
2018	07-15-2018	8	0	210.5						
2018	07-15-2018	9	0	207.6						
2018	07-15-2018	10	0	208.4						
2018	07-15-2018	11	0	332.6						
2018	07-15-2018	12	0	365.6						
2018	07-15-2018	13	0	348.5						
2018	07-15-2018	14	0	322		0				
2018	07-15-2018	15	0	325.5		0				
2018	07-15-2018	16	0	395.7		0				
2018	07-15-2018	17	0	640.6		0				
2018	07-15-2018	18	12.3	797.6		0				
2018	07-15-2018	19	37.9	1072.2		0	0			
2018	07-15-2018	20	114.9	1352.5		0	0			
2018	07-15-2018	21	179.2	995.5		0	0			
2018	07-15-2018	22	193.1	629		0	0			
2018	07-15-2018	23	168.6	416.6		0	0			
2018	07-16-2018	0	143	295.2		0	62.2			
2018	07-16-2018	1	113.4	281.5		0	228.6			
2018	07-16-2018	2	88.5	262		0	301.3			
2018	07-16-2018	3	83.1	233.9		0	502.1			
2018	07-16-2018	4	86.8	229.5		0	772.4			
2018	07-16-2018	5	75	189.9		0	1377			
2018	07-16-2018	6	100.5	99.3		0	1811.9			
2018	07-16-2018	7	73.4	143.6		0	1659.1			
2018	07-16-2018	8	103.6	208.5		0	1659.1			
2018	07-16-2018	9	134.5	291.4		0	1978.3			
2018	07-16-2018	10	150.5	421.4		0	2360.4			
2018	07-16-2018	11	357.7	760.9		0	2588.7			
2018	07-16-2018	12	535.7	876.9		0	2788.8			
2018	07-16-2018	13	484.5	1023.2		0	3072.5			
2018	07-16-2018	14	359.9	902.2		0	3305.1			
2018	07-16-2018	15	323.9	831.5		0	3414			
2018	07-16-2018	16	283.3	840.3			3400.1			
2018	07-16-2018	17	274	859.8			3375.9			
2018	07-16-2018	18	291.7	825.8			3389.6			
2018	07-16-2018	19	269.1	788.2			3157.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-16-2018	20	291.3	794.8			2769.1			
2018	07-16-2018	21	210.3	652.9			2584.8			
2018	07-16-2018	22	192	693.8		0	2469.8			
2018	07-16-2018	23	95.4	374.1		0	2154.9			
2018	07-17-2018	0	59.7	228.8		2.5	2125.5			
2018	07-17-2018	1	34.1	151		2.9	2106.2			
2018	07-17-2018	2	32.6	80.8		2.7	2121.7			
2018	07-17-2018	3	32.5	78.8		160.9	2134.1			
2018	07-17-2018	4	35.6	81.3		256.3	2126.7			
2018	07-17-2018	5	23.6	60.6		342.4	2102.3			
2018	07-17-2018	6	105.6	71		368.9	2098.9			
2018	07-17-2018	7	99.8	125.2		362.4	2097.3			
2018	07-17-2018	8	127.3	181.7		627.9	2180.1			
2018	07-17-2018	9	205.9	270.7		992.8	2103.9			
2018	07-17-2018	10	224.1	281.4		966.8	2214.6			
2018	07-17-2018	11	314.7	374.7		1020.4	2445.4			
2018	07-17-2018	12	445.9	624.1		1221.4	2790.6			
2018	07-17-2018	13	421.4	525		1340.9	2675.9			
2018	07-17-2018	14	262.1	365.6		1348	2327.3			
2018	07-17-2018	15	334	497.3		1307.3	2397.5			
2018	07-17-2018	16	322	553.3		1332.3	2349.2			
2018	07-17-2018	17	523.2	648		1019.4	2590			
2018	07-17-2018	18	456	721.2		872.8	2200.9			
2018	07-17-2018	19	452.3	686.5		635.1	1488.7			
2018	07-17-2018	20	299	434.2		393.2	90.954			
2018	07-17-2018	21	210.5	313.7		358.8				
2018	07-17-2018	22	138.6	206.6		331.8				
2018	07-17-2018	23	96.5	131.5		305.2				
2018	07-18-2018	0	79.9	70.6		302.8				
2018	07-18-2018	1	71.4	78.6		275.5				
2018	07-18-2018	2	68	80		271.4				
2018	07-18-2018	3	66.6	81.5		297.3				
2018	07-18-2018	4	65.7	78.8		324.5				
2018	07-18-2018	5	57.7	74.8		302.6				
2018	07-18-2018	6	132.9	73.7		279.8				
2018	07-18-2018	7	99.8	77.8		261.5				
2018	07-18-2018	8	92.8	75.7		267.9				
2018	07-18-2018	9	92	82.6		257.7				
2018	07-18-2018	10	126.3	116.9		487.2				
2018	07-18-2018	11	132.8	109.3		698.3				
2018	07-18-2018	12	138.9	104.8		1064.7				
2018	07-18-2018	13	183.4	157		898.5				
2018	07-18-2018	14	202.2	190.4		848.9				
2018	07-18-2018	15	280.6	291.5		871.6				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-18-2018	16	433.1	519.3		959				
2018	07-18-2018	17	512.9	681.1		894.1				
2018	07-18-2018	18	502.5	643.6		795.2				
2018	07-18-2018	19	459.8	649.9		790.9				
2018	07-18-2018	20	422.8	633.4		801.2				
2018	07-18-2018	21	270.7	329		795.2				
2018	07-18-2018	22	160.9	188.7		789.5				
2018	07-18-2018	23	98.5	141		673.7				
2018	07-19-2018	0	64.2	74.9		478.2				
2018	07-19-2018	1	52.5	63.6		412.7				
2018	07-19-2018	2	50.7	68.6		381.7				
2018	07-19-2018	3	49.1	73		377				
2018	07-19-2018	4	50.7	68.5		363.8				
2018	07-19-2018	5	44.2	52.3		406.7				
2018	07-19-2018	6	99.6	63.6		432.7				
2018	07-19-2018	7	74.7	75.1		409.5				
2018	07-19-2018	8	88.3	85.6		380.7				
2018	07-19-2018	9	77	90.9		496.3				
2018	07-19-2018	10	84.8	101.9		740.9				
2018	07-19-2018	11	98.7	146.4		1161				
2018	07-19-2018	12	100.5	136.3		1211.8				
2018	07-19-2018	13	140.9	155.2		1232.4				
2018	07-19-2018	14	233.5	240.4		1235.6				
2018	07-19-2018	15	242.1	228.5		1232.4				
2018	07-19-2018	16	437.2	506.9		1239.3				
2018	07-19-2018	17	468.8	552.1		1243				
2018	07-19-2018	18	424.4	554.2		1250.8				
2018	07-19-2018	19	422	630.7		1247.4				
2018	07-19-2018	20	402.4	610.9		1191				
2018	07-19-2018	21	362.4	551.7		924.3				
2018	07-19-2018	22	300.1	446		668.4				
2018	07-19-2018	23	213.6	275.1		521.2				
2018	07-20-2018	0	173.5	212.5		455.9				
2018	07-20-2018	1	120.4	146.1		415.5				
2018	07-20-2018	2	101.9	99.6		383.7				
2018	07-20-2018	3	74	97.5		364.9				
2018	07-20-2018	4	64.3	99.5		440				
2018	07-20-2018	5	54.3	95.5		1097.5				
2018	07-20-2018	6	130.9	71.9		1207.8				
2018	07-20-2018	7	106.2	88.7		1256.8				
2018	07-20-2018	8	98.9	97.9		1299.5				
2018	07-20-2018	9	88.9	114.8		1304.6				
2018	07-20-2018	10	90.1	137.2		1306.8				
2018	07-20-2018	11	94.9	121.9		1310.3				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-20-2018	12	141.4	135.4		1321.4				
2018	07-20-2018	13	136.8	195.9		1326.7				
2018	07-20-2018	14	132	173.1		1316.1				
2018	07-20-2018	15	172.4	203		1327.8				
2018	07-20-2018	16	163.5	175.6		1346.8				
2018	07-20-2018	17	143.3	186		1372.3				
2018	07-20-2018	18	147.2	183.5		1287.2				
2018	07-20-2018	19	150.4	188.9		1006.2				
2018	07-20-2018	20	147	199		819.3				
2018	07-20-2018	21	141.4	199.8		544.5				
2018	07-20-2018	22	236	193.2		40.9				
2018	07-20-2018	23	109	133.7						
2018	07-21-2018	0		103.6						
2018	07-21-2018	1		95						
2018	07-21-2018	2		89.1						
2018	07-21-2018	3		84.5						
2018	07-21-2018	4		82.4						
2018	07-21-2018	5		65.1						
2018	07-21-2018	6		87.8						
2018	07-21-2018	7		96.9						
2018	07-21-2018	8		95						
2018	07-21-2018	9		91.2						
2018	07-21-2018	10		88.3						
2018	07-21-2018	11		89.6						
2018	07-21-2018	12		87						
2018	07-21-2018	13		87.5						
2018	07-21-2018	14		85.8						
2018	07-21-2018	15		93						
2018	07-21-2018	16		190.2						
2018	07-21-2018	17		206.7						
2018	07-21-2018	18		177.4						
2018	07-21-2018	19		181.2						
2018	07-21-2018	20		181.8						
2018	07-21-2018	21		186						
2018	07-21-2018	22		202						
2018	07-21-2018	23		224.7						
2018	07-22-2018	0		220.6						
2018	07-22-2018	1		207						
2018	07-22-2018	2		193.2						
2018	07-22-2018	3		197.8						
2018	07-22-2018	4		195.8						
2018	07-22-2018	5		191.7						
2018	07-22-2018	6		178.5						
2018	07-22-2018	7		188						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-22-2018	8		187.7						
2018	07-22-2018	9		188.4						
2018	07-22-2018	10		179.2						
2018	07-22-2018	11		190.6						
2018	07-22-2018	12		205.4						
2018	07-22-2018	13		187.5						
2018	07-22-2018	14		196.3						
2018	07-22-2018	15		205.2						
2018	07-22-2018	16		269.3						
2018	07-22-2018	17		282.9						
2018	07-22-2018	18		277.7						
2018	07-22-2018	19		332.2						
2018	07-22-2018	20		452						
2018	07-22-2018	21		395.2						
2018	07-22-2018	22		373.8						
2018	07-22-2018	23		298.7						
2018	07-23-2018	0		225.6						
2018	07-23-2018	1		187.3						
2018	07-23-2018	2		182.7						
2018	07-23-2018	3		191.1						
2018	07-23-2018	4		191.9						
2018	07-23-2018	5		145.8						
2018	07-23-2018	6		174.2						
2018	07-23-2018	7		197.3						
2018	07-23-2018	8		260.6						
2018	07-23-2018	9		258.7						
2018	07-23-2018	10		278.3						
2018	07-23-2018	11		369.8						
2018	07-23-2018	12		597.4						
2018	07-23-2018	13		728.8						
2018	07-23-2018	14		1212.7						
2018	07-23-2018	15		1242.5						
2018	07-23-2018	16		1298.2						
2018	07-23-2018	17		1147.6						
2018	07-23-2018	18		964.9						
2018	07-23-2018	19		1214.8						
2018	07-23-2018	20		1113.5						
2018	07-23-2018	21		1088.4						
2018	07-23-2018	22		882.6						
2018	07-23-2018	23		654.4						
2018	07-24-2018	0		448.6						
2018	07-24-2018	1		347.4						
2018	07-24-2018	2		294.3						
2018	07-24-2018	3		250.1						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-24-2018	4		190.9						
2018	07-24-2018	5		199.8						
2018	07-24-2018	6		200.4						
2018	07-24-2018	7		221.7						
2018	07-24-2018	8		265.6						
2018	07-24-2018	9		236.2						
2018	07-24-2018	10		386.4						
2018	07-24-2018	11		584.7						
2018	07-24-2018	12		1070.9						
2018	07-24-2018	13		1190.8						
2018	07-24-2018	14		1139.7						
2018	07-24-2018	15		1367						
2018	07-24-2018	16		1320.6						
2018	07-24-2018	17		1368.7						
2018	07-24-2018	18		1319.9						
2018	07-24-2018	19		1330.2						
2018	07-24-2018	20		1279.6						
2018	07-24-2018	21		1101.2						
2018	07-24-2018	22		548.3						
2018	07-24-2018	23		343.5						
2018	07-25-2018	0		222						
2018	07-25-2018	1		151.1						
2018	07-25-2018	2		136.2						
2018	07-25-2018	3		149.2						
2018	07-25-2018	4		150.2						
2018	07-25-2018	5		117.1						
2018	07-25-2018	6		148.9						
2018	07-25-2018	7		175						
2018	07-25-2018	8		281.8						
2018	07-25-2018	9	0	397.4						
2018	07-25-2018	10	0	535.7						
2018	07-25-2018	11	0	589						
2018	07-25-2018	12	0	879.5						
2018	07-25-2018	13	0	1259.8						
2018	07-25-2018	14	0	1333.9						
2018	07-25-2018	15	0	1217.8						
2018	07-25-2018	16	18	1071.8						
2018	07-25-2018	17	17	1007.2						
2018	07-25-2018	18	15	923						
2018	07-25-2018	19	14	1002.2						
2018	07-25-2018	20	11.8	1088.7						
2018	07-25-2018	21	10.8	1017.6						
2018	07-25-2018	22	9.7	671.5						
2018	07-25-2018	23	15.5	471.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-26-2018	0	23.2	338						
2018	07-26-2018	1	20.1	244.9						
2018	07-26-2018	2	39.9	185.4						
2018	07-26-2018	3	33.2	190.3						
2018	07-26-2018	4	38.7	190.8						
2018	07-26-2018	5	94.7	195.3						
2018	07-26-2018	6	188	188.8						
2018	07-26-2018	7	166.9	185.6						
2018	07-26-2018	8	195.4	185.1				0.028		
2018	07-26-2018	9	223.7	266.5				0.039		
2018	07-26-2018	10	286.9	311.5				0.055		
2018	07-26-2018	11	358.5	412.4				0.06		
2018	07-26-2018	12	774	790.1				85.932		
2018	07-26-2018	13	1105.9	1237.7				462.494		
2018	07-26-2018	14	592.4	866.9				465.594		
2018	07-26-2018	15	702.9	779.1				470.694		
2018	07-26-2018	16	677.5	806.4				555.294		
2018	07-26-2018	17	735.2	881.5				559.066		
2018	07-26-2018	18	1302.1	1394.3				547.747		
2018	07-26-2018	19	1464.7	1706.7				549.947		
2018	07-26-2018	20	1404.5	1712.5				550.047		
2018	07-26-2018	21	712.1	1206.4				551.047		
2018	07-26-2018	22	470.4	770.5				551.047		
2018	07-26-2018	23	300.8	496.2				583.947		
2018	07-27-2018	0	230.2	311.1				638.357		
2018	07-27-2018	1	224.4	174.4				622.834		
2018	07-27-2018	2	206.9	165.9				1008.3		
2018	07-27-2018	3	200.3	187.2				1364.8		
2018	07-27-2018	4	206.8	188.2				1647.5		
2018	07-27-2018	5	219.9	138.4				1934.2		
2018	07-27-2018	6	367	227				2476.7		
2018	07-27-2018	7	566.5	481.5				2563.8		
2018	07-27-2018	8	661.4	591				2560.9		
2018	07-27-2018	9	757.1	672.4				2557.7		
2018	07-27-2018	10	734.4	617.1				2553.7		
2018	07-27-2018	11	736.8	648.1				2556.3		
2018	07-27-2018	12	882.7	741.8				2557.4		
2018	07-27-2018	13	975.7	712.1				2556.3		
2018	07-27-2018	14	718	590				2651.7		
2018	07-27-2018	15	954.7	769.5				2668.1		
2018	07-27-2018	16	952.7	738.2				2658.7		
2018	07-27-2018	17	781.2	644.6				2659.6		
2018	07-27-2018	18	625.5	543.9				2138.7		
2018	07-27-2018	19	550.2	503.2				800.4		

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-27-2018	20	521	457				402.716		
2018	07-27-2018	21	347.8	359.5						
2018	07-27-2018	22	220.1	243.1						
2018	07-27-2018	23	172.9	183.4						
2018	07-28-2018	0	183.4	136.9						
2018	07-28-2018	1	184.6	140.8						
2018	07-28-2018	2	180.5	141.1						
2018	07-28-2018	3	203	141.2						
2018	07-28-2018	4	204.7	139.8						
2018	07-28-2018	5	212.7	144.4						
2018	07-28-2018	6	411.5	178.5						
2018	07-28-2018	7	528	341.8						
2018	07-28-2018	8	515.4	376.2						
2018	07-28-2018	9	534	376.5						
2018	07-28-2018	10	509.7	360.3						
2018	07-28-2018	11	491.3	367.9						
2018	07-28-2018	12	475.1	363.2						
2018	07-28-2018	13	712.5	477.7						
2018	07-28-2018	14	782.8	526.2						
2018	07-28-2018	15	771.4	598.5						
2018	07-28-2018	16	791.1	753.1						
2018	07-28-2018	17	878.5	841.2						
2018	07-28-2018	18	583.1	786.5						
2018	07-28-2018	19	572.7	698.3						
2018	07-28-2018	20	518.1	644.2						
2018	07-28-2018	21	451.3	428.9						
2018	07-28-2018	22	366.5	234.9						
2018	07-28-2018	23	230.4	177.4						
2018	07-29-2018	0	169	136.8						
2018	07-29-2018	1	169.3	140.4						
2018	07-29-2018	2	164	140.7						
2018	07-29-2018	3	161.4	144.6						
2018	07-29-2018	4	164.7	138.8						
2018	07-29-2018	5	166	106.2						
2018	07-29-2018	6	300.5	232.7						
2018	07-29-2018	7	408.2	355.2						
2018	07-29-2018	8	445.3	376.2						
2018	07-29-2018	9	475	376.1						
2018	07-29-2018	10	470.7	371.7						
2018	07-29-2018	11	472.1	368.4						
2018	07-29-2018	12	439	473						
2018	07-29-2018	13	502.7	400.6						
2018	07-29-2018	14	453.1	338.9						
2018	07-29-2018	15	525.1	418.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-29-2018	16	542.1	406.8						
2018	07-29-2018	17	584.7	416.4						
2018	07-29-2018	18	482.6	357.7						
2018	07-29-2018	19	475.8	348.7						
2018	07-29-2018	20	479.2	366.1						
2018	07-29-2018	21	133.6	290.4						
2018	07-29-2018	22	155.2	187.5						
2018	07-29-2018	23	49.01	135						
2018	07-30-2018	0		154.7		0				
2018	07-30-2018	1		157		0				
2018	07-30-2018	2		151.3		0				
2018	07-30-2018	3		152.6		0				
2018	07-30-2018	4		150.6		0				
2018	07-30-2018	5		126.9		0				
2018	07-30-2018	6		92.6		0				
2018	07-30-2018	7		159.5		0				
2018	07-30-2018	8		445.9		0				
2018	07-30-2018	9		404.4		0	0			
2018	07-30-2018	10		378.5		0	0			
2018	07-30-2018	11		371.7		0	0			
2018	07-30-2018	12		408.7		0	0			
2018	07-30-2018	13		442.7		0	0			
2018	07-30-2018	14		450.6		0	0			
2018	07-30-2018	15		493.5		0	0			
2018	07-30-2018	16		418.9		0	0			
2018	07-30-2018	17		416.3		0	0			
2018	07-30-2018	18		350.9		0	0			
2018	07-30-2018	19		370.6		0	462.2			
2018	07-30-2018	20		349.5		0	734.4			
2018	07-30-2018	21		246.7		0	1283.7			
2018	07-30-2018	22		153.7		0	1810.1			
2018	07-30-2018	23		125.5		0	1634.8			
2018	07-31-2018	0		137.5			1653.2			
2018	07-31-2018	1		150.2			1701.7			
2018	07-31-2018	2		143.8			1604.1			
2018	07-31-2018	3		147.1			1964.2			
2018	07-31-2018	4		143.2			2328.6			
2018	07-31-2018	5		104.8			2719.4			
2018	07-31-2018	6		209.2			2982			
2018	07-31-2018	7		348.3			3043.1			
2018	07-31-2018	8		380.6			3170.8			
2018	07-31-2018	9		401.9			3177.6			
2018	07-31-2018	10		423.3			3228.7			
2018	07-31-2018	11		442.6			3240.2			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	07-31-2018	12		435			3257.4			
2018	07-31-2018	13		547.9			3273.2			
2018	07-31-2018	14		658.7			3222.3			
2018	07-31-2018	15		741.9			3330			
2018	07-31-2018	16		1256.5			3360.8			
2018	07-31-2018	17		1260.8			3393.2			
2018	07-31-2018	18		1262.6			3325.6			
2018	07-31-2018	19		1393.4		0	3226			
2018	07-31-2018	20		1204.2		0	3155.9			
2018	07-31-2018	21		882.4		0	2531.2			
2018	07-31-2018	22		634.6		0	2090.6			
2018	07-31-2018	23		526.9		0	495.938			
2018	08-01-2018	0		364.2		0				
2018	08-01-2018	1		294.2		0				
2018	08-01-2018	2		235.5		0				
2018	08-01-2018	3		170.3		0				
2018	08-01-2018	4		178.2		0				
2018	08-01-2018	5		177.7		0				
2018	08-01-2018	6		239.9		0				
2018	08-01-2018	7		403.8		0				
2018	08-01-2018	8		423.7		0				
2018	08-01-2018	9		437.3		0				
2018	08-01-2018	10		427.4		0				
2018	08-01-2018	11		402.7		0				
2018	08-01-2018	12		534.5		0				
2018	08-01-2018	13		688.9		0				
2018	08-01-2018	14		1327.7						
2018	08-01-2018	15		1309.6						
2018	08-01-2018	16		1421.1						
2018	08-01-2018	17		1416.8						
2018	08-01-2018	18		1390.5						
2018	08-01-2018	19		1426.6						
2018	08-01-2018	20		1337.1						
2018	08-01-2018	21		744.2						
2018	08-01-2018	22		552.6						
2018	08-01-2018	23		378.8						
2018	08-02-2018	0		283.5						
2018	08-02-2018	1		223.6						
2018	08-02-2018	2		159.5						
2018	08-02-2018	3		160.1						
2018	08-02-2018	4		182						
2018	08-02-2018	5		135.2						
2018	08-02-2018	6		304.1						
2018	08-02-2018	7		392						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-02-2018	8		395.9						
2018	08-02-2018	9		441.5						
2018	08-02-2018	10		449.9						
2018	08-02-2018	11		435.2						
2018	08-02-2018	12		607.3						
2018	08-02-2018	13		750.4						
2018	08-02-2018	14		1040.4						
2018	08-02-2018	15		1319.1						
2018	08-02-2018	16		1451.6						
2018	08-02-2018	17		1571.3						
2018	08-02-2018	18		1644.8						
2018	08-02-2018	19		1598.9						
2018	08-02-2018	20		1614.8						
2018	08-02-2018	21		1094.9						
2018	08-02-2018	22		713.4						
2018	08-02-2018	23		521.4						
2018	08-03-2018	0		382.9						
2018	08-03-2018	1		350.9						
2018	08-03-2018	2		292.8						
2018	08-03-2018	3		202.8						
2018	08-03-2018	4		195.6						
2018	08-03-2018	5		181.9						
2018	08-03-2018	6		208.7						
2018	08-03-2018	7		358.7						
2018	08-03-2018	8		450.4						
2018	08-03-2018	9		519.6						
2018	08-03-2018	10		466.5						
2018	08-03-2018	11		534.8						
2018	08-03-2018	12		501.6						
2018	08-03-2018	13		588.7						
2018	08-03-2018	14		698						
2018	08-03-2018	15		1172.4						
2018	08-03-2018	16		1327.9						
2018	08-03-2018	17		1333.9						
2018	08-03-2018	18		1151.8						
2018	08-03-2018	19		1051.6						
2018	08-03-2018	20		901.2						
2018	08-03-2018	21		615.6						
2018	08-03-2018	22		380.4						
2018	08-03-2018	23		276.1						
2018	08-04-2018	0		166.2						
2018	08-04-2018	1		154.3						
2018	08-04-2018	2		158.2						
2018	08-04-2018	3		173.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-04-2018	4		172.8						
2018	08-04-2018	5		129.9						
2018	08-04-2018	6		287.7						
2018	08-04-2018	7		509.7						
2018	08-04-2018	8		510.8						
2018	08-04-2018	9		526.4						
2018	08-04-2018	10		537.9						
2018	08-04-2018	11		962.3						
2018	08-04-2018	12		1521						
2018	08-04-2018	13	0	1370.4						
2018	08-04-2018	14	0	1264.3	0.006					
2018	08-04-2018	15	0	1464.4	0.013					
2018	08-04-2018	16	0	1441.2	0.024					
2018	08-04-2018	17	0	1473.3	0.041					
2018	08-04-2018	18	0	1010.6	0.043					
2018	08-04-2018	19	0	835	0.054					
2018	08-04-2018	20	0	910.3	0.061					
2018	08-04-2018	21	0	501.3	0.076					
2018	08-04-2018	22	0	321.2	0.079		0			
2018	08-04-2018	23	0	243.3	0.078		0			
2018	08-05-2018	0	0	212.8	0.073		0			
2018	08-05-2018	1	0	212.2	0.071		0			
2018	08-05-2018	2	1.6	204.1	0.071		0			
2018	08-05-2018	3	19.6	211.8	0.069		0			
2018	08-05-2018	4	8.1	212.3	0.066		490.6			
2018	08-05-2018	5	14.9	212.2	0.064		886.2			
2018	08-05-2018	6	40.7	246.5	0.053		1518.4			
2018	08-05-2018	7	58.3	386	0.052		1786.7			
2018	08-05-2018	8	124.3	480.9			1830.3			
2018	08-05-2018	9	212.9	480.2			1830.5			
2018	08-05-2018	10	238	495.3			1851.2			
2018	08-05-2018	11	377.8	591.5			2267.6			
2018	08-05-2018	12	536.2	686.8			2360.9			
2018	08-05-2018	13	365.3	422.3			2381.6			
2018	08-05-2018	14	324.2	440.7			2474.3			
2018	08-05-2018	15	472.7	573.6			2817.3			
2018	08-05-2018	16	543.9	675.6			2994.6			
2018	08-05-2018	17	505.5	777.1			3035.9			
2018	08-05-2018	18	554.5	695.6			2988.9			
2018	08-05-2018	19	440.2	544.3			2659.1			
2018	08-05-2018	20	578	652.8			2733.1			
2018	08-05-2018	21	330.5	372.2			2482.4			
2018	08-05-2018	22	171.5	220.7			2102.8			
2018	08-05-2018	23	110.6	153.8			1949.8			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-06-2018	0	75.5	101.2			1957.4			
2018	08-06-2018	1	62.9	99.8			1941.7			
2018	08-06-2018	2	57.1	98.2			1953.5			
2018	08-06-2018	3	53.5	98.8			1951.8			
2018	08-06-2018	4	51.7	96.7			1954.6			
2018	08-06-2018	5	58.4	77.2			1960.7			
2018	08-06-2018	6	121.1	115.6			1976			
2018	08-06-2018	7	173.9	194.2			1969			
2018	08-06-2018	8	199.7	247.1			2046.9			
2018	08-06-2018	9	223.2	282			2033.3			
2018	08-06-2018	10	255.2	294.9			2071.1			
2018	08-06-2018	11	404.6	399.7			2402.8			
2018	08-06-2018	12	523.4	669.6			2765.3			
2018	08-06-2018	13	559.4	634.9			3024.3			
2018	08-06-2018	14	594	636.7			2965.7			
2018	08-06-2018	15	573.5	662			3134.8			
2018	08-06-2018	16	582.3	720.5			3165.5			
2018	08-06-2018	17	516.8	563.5			3163.9			
2018	08-06-2018	18	458.2	419			3084.3			
2018	08-06-2018	19	431.3	358.5			2842.5			
2018	08-06-2018	20	399.7	355.6			2644.3			
2018	08-06-2018	21	265.8	275.7			2340.5			
2018	08-06-2018	22	146	175.5			2101.2			
2018	08-06-2018	23	92.5	122.3			1905.2			
2018	08-07-2018	0	62.4	95.6			1899.2			
2018	08-07-2018	1	60.1	94.9			1882.5			
2018	08-07-2018	2	54.8	91			2132.6			
2018	08-07-2018	3	56.2	92.3			2615			
2018	08-07-2018	4	57.8	92.1			2992.2			
2018	08-07-2018	5	68.4	103.6			3171			
2018	08-07-2018	6	141.9	133.6			3251.2			
2018	08-07-2018	7	181.9	205.7			3265.1			
2018	08-07-2018	8	207.8	224.9			3288.5			
2018	08-07-2018	9	199	219.5			3306.2			
2018	08-07-2018	10	264.1	218.6			3247.9			
2018	08-07-2018	11	356.5	256.5			3250.3			
2018	08-07-2018	12	538.8	295.8			3313.8			
2018	08-07-2018	13	571.8	331.9			3329.9			
2018	08-07-2018	14	593.3	377.6			3355.5			
2018	08-07-2018	15	613.2	416.1			3454.1			
2018	08-07-2018	16	494.9	356.9			3451.7			
2018	08-07-2018	17	535.6	290.8			3301			
2018	08-07-2018	18	528.3	232.9			2496.5			
2018	08-07-2018	19	537.8	221.1	0.004		2510.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-07-2018	20	439.4	224.6	0.018		2519.6			
2018	08-07-2018	21	304.6	163.8	0.055		2518.6			
2018	08-07-2018	22	206.6	113.8	0.085		2304.1			
2018	08-07-2018	23	148.7	82.9	0.102		2028.6			
2018	08-08-2018	0	94.4	85.1	0.089		1990.3			
2018	08-08-2018	1	73	84.8	0.079		1981.5			
2018	08-08-2018	2	69.8	83.2	0.128		1985.2			
2018	08-08-2018	3	71.1	84.7	0.296		2000.4			
2018	08-08-2018	4	72.7	83	0.355		1987.7			
2018	08-08-2018	5	76.3	67.4	0.516		2040.2			
2018	08-08-2018	6	128.3	100.7	0.77		2035.3			
2018	08-08-2018	7	182.8	194.7	0.762		2077.8			
2018	08-08-2018	8	187.2	218	0.757		2112.4			
2018	08-08-2018	9	200.9	223.9	0.755		2104.5			
2018	08-08-2018	10	234.5	219.3	0.756		2166.1			
2018	08-08-2018	11	299.8	227.8	0.755		2165.4			
2018	08-08-2018	12	355.9	245.5	0.756		2663.5			
2018	08-08-2018	13	489	252.1	0.811		2848.9			
2018	08-08-2018	14	581.4	293.2	0.838		3161.3			
2018	08-08-2018	15	611.8	371.1	0.843		3380.6			
2018	08-08-2018	16	587.3	465.1	0.843		3589.5			
2018	08-08-2018	17	627.6	544.9	0.813		3616.4			
2018	08-08-2018	18	633.8	528.5	0.674		3591.7			
2018	08-08-2018	19	659.2	572.2	0.753		3614.5			
2018	08-08-2018	20	613.5	495.1	0.549		3477.8			
2018	08-08-2018	21	448.7	376	0.22		3205.8			
2018	08-08-2018	22	272.3	250.2	0.042		2838.5			
2018	08-08-2018	23	155.4	180			2452.3			
2018	08-09-2018	0	96.1	122.7			2423.3			
2018	08-09-2018	1	62.5	92.9			2438.1			
2018	08-09-2018	2	62.6	80.7			2323.6			
2018	08-09-2018	3	64.8	82.6			2173.1			
2018	08-09-2018	4	64.7	82.6			2169.1			
2018	08-09-2018	5	62.4	83			2215.5			
2018	08-09-2018	6	96.6	105.6			2234.1			
2018	08-09-2018	7	141.5	173.6			2229.9			
2018	08-09-2018	8	201.8	208.9			2208			
2018	08-09-2018	9	209.3	207.1			2238.6			
2018	08-09-2018	10	232.1	207.2			2341.8			
2018	08-09-2018	11	293.7	212.9			2447.9			
2018	08-09-2018	12	412.7	215.1			2565.9			
2018	08-09-2018	13	518	227.4			2932.8			
2018	08-09-2018	14	466	218			3042.9			
2018	08-09-2018	15	664	221.9			3426			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-09-2018	16	688.3	219.3			3560.1			
2018	08-09-2018	17	689.7	223.3			3622.8			
2018	08-09-2018	18	688.3	229.5			3615.4			
2018	08-09-2018	19	620.1	236.4			3348.8			
2018	08-09-2018	20	559.9	246.4			3156.2			
2018	08-09-2018	21	416.4	199.4			2987.2			
2018	08-09-2018	22	253.6	141.2			2680.3			
2018	08-09-2018	23	172.6	96.9			2587.8			
2018	08-10-2018	0	102.7	104.3			2491.9			
2018	08-10-2018	1	89.1	102.7			2500.6			
2018	08-10-2018	2	83.7	98			2430.9			
2018	08-10-2018	3	81.7	99.6			2240			
2018	08-10-2018	4	82.1	99.5			2224.8			
2018	08-10-2018	5	80.2	76.8			2232.1			
2018	08-10-2018	6	145.6	149.9			2226			
2018	08-10-2018	7	225.6	280.4			2217.2			
2018	08-10-2018	8	233.5	310			2169.8			
2018	08-10-2018	9	225.6	432			2274.6			
2018	08-10-2018	10	303.3	618.5			2434			
2018	08-10-2018	11	424.8	618.2			2629.8			
2018	08-10-2018	12	465.4	616.3			2863.7			
2018	08-10-2018	13	559.3	658.8	0.004		3108.1			
2018	08-10-2018	14	587	596.9	0.021		3180.3			
2018	08-10-2018	15	592.5	649.1	0.039		3438			
2018	08-10-2018	16	568.8	710.9	0.049		3529.8			
2018	08-10-2018	17	588.5	624.6	0.077		2918.2			
2018	08-10-2018	18	576.3	468.5	0.081		1949.4			
2018	08-10-2018	19	488	486.3	0.061		1227.28			
2018	08-10-2018	20	494.2	527.4	0.066					
2018	08-10-2018	21	333.6	370.2	0.066					
2018	08-10-2018	22	296.2	283.3	0.066					
2018	08-10-2018	23	198.287	402.2	0.049					
2018	08-11-2018	0		317.8	0.058					
2018	08-11-2018	1		250.2	0.058					
2018	08-11-2018	2		211.2	0.058					
2018	08-11-2018	3		218.5	0.058					
2018	08-11-2018	4		151.1	0.058					
2018	08-11-2018	5		174.7	0.061					
2018	08-11-2018	6		220.1	0.04					
2018	08-11-2018	7		408.9						
2018	08-11-2018	8		532.3						
2018	08-11-2018	9		467.4						
2018	08-11-2018	10		635.1						
2018	08-11-2018	11		851.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-11-2018	12		1112.3						
2018	08-11-2018	13		1274.2						
2018	08-11-2018	14		1172.6						
2018	08-11-2018	15		1197.6						
2018	08-11-2018	16		1247.8						
2018	08-11-2018	17		1379.8						
2018	08-11-2018	18		1301						
2018	08-11-2018	19		988.8						
2018	08-11-2018	20		966.9						
2018	08-11-2018	21		522.9						
2018	08-11-2018	22		294.8						
2018	08-11-2018	23		240.8						
2018	08-12-2018	0		181.9						
2018	08-12-2018	1		175.9						
2018	08-12-2018	2		169.3						
2018	08-12-2018	3		166.3						
2018	08-12-2018	4		161.8						
2018	08-12-2018	5		124.3						
2018	08-12-2018	6		265.3						
2018	08-12-2018	7		430						
2018	08-12-2018	8		432.1						
2018	08-12-2018	9		432.2						
2018	08-12-2018	10		492.3						
2018	08-12-2018	11		550.8						
2018	08-12-2018	12		772.4						
2018	08-12-2018	13		1013.6						
2018	08-12-2018	14		1005.1						
2018	08-12-2018	15		1023.5						
2018	08-12-2018	16		1072.5						
2018	08-12-2018	17		1091.4						
2018	08-12-2018	18		1006						
2018	08-12-2018	19		1050.5						
2018	08-12-2018	20		909.9						
2018	08-12-2018	21		484.3						
2018	08-12-2018	22		241.1						
2018	08-12-2018	23		250.7						
2018	08-13-2018	0		184.6						
2018	08-13-2018	1		170.7						
2018	08-13-2018	2		167						
2018	08-13-2018	3		165.5						
2018	08-13-2018	4		182.2						
2018	08-13-2018	5		184.7						
2018	08-13-2018	6		204.4						
2018	08-13-2018	7		365.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-13-2018	8		439.8						
2018	08-13-2018	9		485.6						
2018	08-13-2018	10		510.5						
2018	08-13-2018	11		572.7						
2018	08-13-2018	12		580.5						
2018	08-13-2018	13		618.8						
2018	08-13-2018	14		758.7						
2018	08-13-2018	15		1134.4						
2018	08-13-2018	16		1193.4						
2018	08-13-2018	17		1410.3						
2018	08-13-2018	18		1357.4						
2018	08-13-2018	19		1282.1						
2018	08-13-2018	20		859						
2018	08-13-2018	21		552.7						
2018	08-13-2018	22		357.8						
2018	08-13-2018	23		261.4						
2018	08-14-2018	0		174.3						
2018	08-14-2018	1		168.8						
2018	08-14-2018	2		165.7						
2018	08-14-2018	3		175.2						
2018	08-14-2018	4		168.9						
2018	08-14-2018	5		132.9						
2018	08-14-2018	6		274.4						
2018	08-14-2018	7		431.9						
2018	08-14-2018	8		432.7						
2018	08-14-2018	9		436.4						
2018	08-14-2018	10		465						
2018	08-14-2018	11		615.7						
2018	08-14-2018	12	0	705.1						
2018	08-14-2018	13	0	862.5						
2018	08-14-2018	14	0	727.7						
2018	08-14-2018	15	0	850						
2018	08-14-2018	16	0	808.5						
2018	08-14-2018	17	0	736.2						
2018	08-14-2018	18	0	560						
2018	08-14-2018	19	0	543.5						
2018	08-14-2018	20	0	617.8						
2018	08-14-2018	21	0	467.6						
2018	08-14-2018	22	0	302.3						
2018	08-14-2018	23	0	237.4						
2018	08-15-2018	0	0	228.3						
2018	08-15-2018	1	12.5	234.1						
2018	08-15-2018	2	15.8	230.8						
2018	08-15-2018	3	34.2	246.5						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-15-2018	4	121.6	236.5						
2018	08-15-2018	5	380.7	179.7						
2018	08-15-2018	6	366.2	215						
2018	08-15-2018	7	150.8	436.3						
2018	08-15-2018	8	164.2	489.5						
2018	08-15-2018	9	239.4	511.8						
2018	08-15-2018	10	267.5	545.2						
2018	08-15-2018	11	385.3	674.9						
2018	08-15-2018	12	816.1	730.5						
2018	08-15-2018	13	951.5	1025.6						
2018	08-15-2018	14	1150.8	1132.7						
2018	08-15-2018	15	1229.8	1208.5						
2018	08-15-2018	16	1181.5	1225.8						
2018	08-15-2018	17	1202.8	1131.9						
2018	08-15-2018	18	1213.5	1102.4						
2018	08-15-2018	19	1298	1222.6						
2018	08-15-2018	20	1101.3	1271						
2018	08-15-2018	21	719	773						
2018	08-15-2018	22	471.2	495.4						
2018	08-15-2018	23	296.1	386.8						
2018	08-16-2018	0	191.5	282.5						
2018	08-16-2018	1	229.3	257.7						
2018	08-16-2018	2	198.2	196.9						
2018	08-16-2018	3	199.2	166.4						
2018	08-16-2018	4	188.9	189						
2018	08-16-2018	5	177.8	148.9						
2018	08-16-2018	6	255.5	328						
2018	08-16-2018	7	432	577.5						
2018	08-16-2018	8	460	589.7						
2018	08-16-2018	9	518.7	577.1						
2018	08-16-2018	10	499.3	644.6						
2018	08-16-2018	11	485.5	595.1						
2018	08-16-2018	12	556.3	621.6						
2018	08-16-2018	13	669.5	833.6						
2018	08-16-2018	14	766.7	840.6						
2018	08-16-2018	15	1096.2	1220.6						
2018	08-16-2018	16	1189.2	1412						
2018	08-16-2018	17	1281.1	1367						
2018	08-16-2018	18	1265.1	1219.6						
2018	08-16-2018	19	1309.6	1392.8						
2018	08-16-2018	20	1191.3	1356.2						
2018	08-16-2018	21	773.3	1035.9						
2018	08-16-2018	22	484.3	658.2						
2018	08-16-2018	23	324.9	473.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-17-2018	0	202.6	253.7						
2018	08-17-2018	1	168	211.1						
2018	08-17-2018	2	157.2	202.5						
2018	08-17-2018	3	155.7	211.9						
2018	08-17-2018	4	165.5	211.8						
2018	08-17-2018	5	185.7	239						
2018	08-17-2018	6	330.7	326						
2018	08-17-2018	7	434.8	622.3						
2018	08-17-2018	8	512.8	831.4						
2018	08-17-2018	9	595	1033.1						
2018	08-17-2018	10	772.6	1181.5						
2018	08-17-2018	11	962.1	1335.9						
2018	08-17-2018	12	1107	1319.1						
2018	08-17-2018	13	1262.7	1430.9						
2018	08-17-2018	14	1320	1539.4						
2018	08-17-2018	15	1274.2	1563.8						
2018	08-17-2018	16	1233	1461.7						
2018	08-17-2018	17	1321.2	1440.8						
2018	08-17-2018	18	1227.9	1404.9						
2018	08-17-2018	19	953.7	1427.3						
2018	08-17-2018	20	1107.8	1487.1						
2018	08-17-2018	21	601.2	901.5						
2018	08-17-2018	22	232	470.2						
2018	08-17-2018	23	168.8	392.7						
2018	08-18-2018	0	175.6	348						
2018	08-18-2018	1	169.4	187.9						
2018	08-18-2018	2	168.9	167.8						
2018	08-18-2018	3	164	174.2						
2018	08-18-2018	4	168.1	180.7						
2018	08-18-2018	5	169.1	152.7						
2018	08-18-2018	6	256	258.7						
2018	08-18-2018	7	442.6	633.5						
2018	08-18-2018	8	485.4	583.9						
2018	08-18-2018	9	541.7	838.8						
2018	08-18-2018	10	674.9	1078.2						
2018	08-18-2018	11	609.3	1157.2						
2018	08-18-2018	12	1018	1449.6						
2018	08-18-2018	13	1184.9	1513.5						
2018	08-18-2018	14	1192.4	1476.1						
2018	08-18-2018	15	1309.5	1552.2						
2018	08-18-2018	16	673.6	1082.2						
2018	08-18-2018	17	514.5	932.2						
2018	08-18-2018	18	487.8	577.9						
2018	08-18-2018	19	512.9	660.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-18-2018	20	561.9	996.4						
2018	08-18-2018	21	395	659.6						
2018	08-18-2018	22	318.6	391.1						
2018	08-18-2018	23	195.9	235						
2018	08-19-2018	0	186.9	184.5						
2018	08-19-2018	1	188	220.7						
2018	08-19-2018	2	175.8	213.4						
2018	08-19-2018	3	168.7	204.5						
2018	08-19-2018	4	173.5	215.1						
2018	08-19-2018	5	166.4	258						
2018	08-19-2018	6	320.4	346.1						
2018	08-19-2018	7	417.3	554.7						
2018	08-19-2018	8	429.9	588.5						
2018	08-19-2018	9	443.1	600						
2018	08-19-2018	10	450.7	591.6						
2018	08-19-2018	11	592.3	722.1						
2018	08-19-2018	12	786.6	1091.4						
2018	08-19-2018	13	1209.9	1270.4						
2018	08-19-2018	14	971.3	1022.2						
2018	08-19-2018	15	1309.6	1582.2						
2018	08-19-2018	16	1219.1	1640						
2018	08-19-2018	17	1054.1	1109.5						
2018	08-19-2018	18	863.9	744.4						
2018	08-19-2018	19	688.9	701						
2018	08-19-2018	20	641	692.6						
2018	08-19-2018	21	424	513.4						
2018	08-19-2018	22	265	296.4						
2018	08-19-2018	23	173.8	168.7						
2018	08-20-2018	0	164	179.8						
2018	08-20-2018	1	162.9	182.1						
2018	08-20-2018	2	151.6	176.1						
2018	08-20-2018	3	154.5	179.1						
2018	08-20-2018	4	162.6	176.4						
2018	08-20-2018	5	168	133.2						
2018	08-20-2018	6	313.8	217.4						
2018	08-20-2018	7	381.6	341.2						
2018	08-20-2018	8	384	425.2						
2018	08-20-2018	9	381.9	348.2						
2018	08-20-2018	10	361.6	205.3						
2018	08-20-2018	11	352	220.2						
2018	08-20-2018	12	435.1	272.7						
2018	08-20-2018	13	578.6	344.8						
2018	08-20-2018	14	881.5	478.8						
2018	08-20-2018	15	1076.4	669.6						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-20-2018	16	1142.2	846						
2018	08-20-2018	17	1241.3	760.8						
2018	08-20-2018	18	1329.8	567.9						
2018	08-20-2018	19	1359.6	650						
2018	08-20-2018	20	1150.8	544.9						
2018	08-20-2018	21	813.8	306.8						
2018	08-20-2018	22	472.8	188.1						
2018	08-20-2018	23	305.1	105.8						
2018	08-21-2018	0	207	68.9						
2018	08-21-2018	1	189.2	64.4						
2018	08-21-2018	2	180.4	66.6						
2018	08-21-2018	3	183.6	69.5						
2018	08-21-2018	4	484.5	69.6						
2018	08-21-2018	5	875.5	77.7						
2018	08-21-2018	6	1361.7	122.8						
2018	08-21-2018	7	1410.6	262.7						
2018	08-21-2018	8	1339.6	271.8						
2018	08-21-2018	9	1407.1	343.6						
2018	08-21-2018	10	1449.4	283.5						
2018	08-21-2018	11	1464.7	273.4						
2018	08-21-2018	12	1423.6	372.2						
2018	08-21-2018	13	1452.9	273.1						
2018	08-21-2018	14	1524.2	417.3						
2018	08-21-2018	15	1520.4	1178.2						
2018	08-21-2018	16	1377.6	1530.8						
2018	08-21-2018	17	1406.1	1322.2						
2018	08-21-2018	18	1417	486.3						
2018	08-21-2018	19	1029.9	470.1						
2018	08-21-2018	20	650.3	516.7						
2018	08-21-2018	21	418.4	415.5						
2018	08-21-2018	22	307.5	239.7						
2018	08-21-2018	23	123.615	175.8						
2018	08-22-2018	0		185.5						
2018	08-22-2018	1		173.3						
2018	08-22-2018	2		168.4						
2018	08-22-2018	3		156.8						
2018	08-22-2018	4		338.7						
2018	08-22-2018	5		702.1						
2018	08-22-2018	6		2050.9						
2018	08-22-2018	7		2247.6						
2018	08-22-2018	8		2125.6						
2018	08-22-2018	9		1885.9						
2018	08-22-2018	10		1580.8						
2018	08-22-2018	11		1510.2						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-22-2018	12		1298.2						
2018	08-22-2018	13		1073.8						
2018	08-22-2018	14		745.5						
2018	08-22-2018	15		835.6						
2018	08-22-2018	16		779.7						
2018	08-22-2018	17		699.3						
2018	08-22-2018	18		496.3						
2018	08-22-2018	19		516.3						
2018	08-22-2018	20		518.2						
2018	08-22-2018	21		386.2						
2018	08-22-2018	22		292.3						
2018	08-22-2018	23		242.2						
2018	08-23-2018	0		196.8						
2018	08-23-2018	1		193.9						
2018	08-23-2018	2		187						
2018	08-23-2018	3		197.6						
2018	08-23-2018	4		200.2						
2018	08-23-2018	5		195.7						
2018	08-23-2018	6		191.9						
2018	08-23-2018	7		198.3						
2018	08-23-2018	8		198.8						
2018	08-23-2018	9		199.8						
2018	08-23-2018	10		192.6						
2018	08-23-2018	11		202						
2018	08-23-2018	12		209.1						
2018	08-23-2018	13		241						
2018	08-23-2018	14		329.8						
2018	08-23-2018	15		415.2						
2018	08-23-2018	16		684.4						
2018	08-23-2018	17		807.3						
2018	08-23-2018	18		625						
2018	08-23-2018	19		451.9						
2018	08-23-2018	20		313.7						
2018	08-23-2018	21		203.8						
2018	08-23-2018	22		184.9						
2018	08-23-2018	23		188.5						
2018	08-24-2018	0		193.7						
2018	08-24-2018	1		189.6						
2018	08-24-2018	2		184						
2018	08-24-2018	3		180.4						
2018	08-24-2018	4		179.3						
2018	08-24-2018	5		142						
2018	08-24-2018	6		186.8						
2018	08-24-2018	7		209						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-24-2018	8		215.6						
2018	08-24-2018	9		220.1						
2018	08-24-2018	10		217.9						
2018	08-24-2018	11		230.3						
2018	08-24-2018	12		321.7						
2018	08-24-2018	13		444.6						
2018	08-24-2018	14		517.2						
2018	08-24-2018	15		881.7						
2018	08-24-2018	16		1080.5						
2018	08-24-2018	17		1274.5						
2018	08-24-2018	18		885.7						
2018	08-24-2018	19		595.9						
2018	08-24-2018	20		424.6						
2018	08-24-2018	21		382.3						
2018	08-24-2018	22		250						
2018	08-24-2018	23		221						
2018	08-25-2018	0		239.1						
2018	08-25-2018	1		214.4						
2018	08-25-2018	2		214.2						
2018	08-25-2018	3		228.6						
2018	08-25-2018	4		234.2						
2018	08-25-2018	5		229						
2018	08-25-2018	6		207.1						
2018	08-25-2018	7		196.1						
2018	08-25-2018	8		200.8						
2018	08-25-2018	9		204.1						
2018	08-25-2018	10		195.7						
2018	08-25-2018	11		201.9						
2018	08-25-2018	12		366.9						
2018	08-25-2018	13	0	311.5						
2018	08-25-2018	14	0	396.5						
2018	08-25-2018	15	0	658.7						
2018	08-25-2018	16	0	988						
2018	08-25-2018	17	0	1056.6						
2018	08-25-2018	18	0	980.9						
2018	08-25-2018	19	0	996.1						
2018	08-25-2018	20	0	739.5						
2018	08-25-2018	21	0	483.8						
2018	08-25-2018	22	0	350.1						
2018	08-25-2018	23	0	309.2						
2018	08-26-2018	0	0	260.1						
2018	08-26-2018	1	6	267.8						
2018	08-26-2018	2	6.1	254.5						
2018	08-26-2018	3	9.6	240.4						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-26-2018	4	11.3	245.1						
2018	08-26-2018	5	17.8	187.8						
2018	08-26-2018	6	32.9	220.6						
2018	08-26-2018	7	64.2	216.2						
2018	08-26-2018	8	62.2	218.1						
2018	08-26-2018	9	57.8	228.5						
2018	08-26-2018	10	79.2	271.1						
2018	08-26-2018	11	128	357.9						
2018	08-26-2018	12	245.4	345.3	0.035					
2018	08-26-2018	13	354.1	517.3	0.048					
2018	08-26-2018	14	714.2	677	0.049					
2018	08-26-2018	15	1017	1167.4	0.053					
2018	08-26-2018	16	1160.3	1689.6	0.056					
2018	08-26-2018	17	1211.9	1530.9	0.066					
2018	08-26-2018	18	1204.7	976.7	0.073		0			
2018	08-26-2018	19	1335.4	1093	0.08		0			
2018	08-26-2018	20	1149.8	790.1	0.079		0			
2018	08-26-2018	21	937.2	549	0.064		0			
2018	08-26-2018	22	535.4	375.1	0.062		0			
2018	08-26-2018	23	366.8	334.3	0.063		0			
2018	08-27-2018	0	280.5	309.2	0.064		57			
2018	08-27-2018	1	180.4	276.2	0.063		71.7			
2018	08-27-2018	2	177.9	258.7	0.062		110.1			
2018	08-27-2018	3	192.7	312.2	0.062		171.4			
2018	08-27-2018	4	193.3	304.5	0.062		692.2			
2018	08-27-2018	5	161.9	304.5	0.062		1157.4			
2018	08-27-2018	6	158.5	314.9	0.049		1690.5			
2018	08-27-2018	7	174	329.3	0.041		1745.9			
2018	08-27-2018	8	374.3	501.5	0.042		1882			
2018	08-27-2018	9	860.9	905.7	0.073		2097.6			
2018	08-27-2018	10	830.4	1074	0.122		2184.8			
2018	08-27-2018	11	853.1	1046.6	0.302		2231.2			
2018	08-27-2018	12	1209.1	1615.9	0.326		2717.3			
2018	08-27-2018	13	1324	2109.6	0.333		3083			
2018	08-27-2018	14	1421.1	2188.8	0.652		3391.3			
2018	08-27-2018	15	1430.7	2200.1	0.83		3500			
2018	08-27-2018	16	1278.6	2219.4	0.821		3510.6			
2018	08-27-2018	17	1117.5	1929.1	0.811		3547.6			
2018	08-27-2018	18	617.5	1128.3	0.628		3541.2			
2018	08-27-2018	19	638	1124	0.368		3434.9			
2018	08-27-2018	20	513.6	1081.2	0.174		3403.2			
2018	08-27-2018	21	354.4	735.4	0.066		3113.8			
2018	08-27-2018	22	263.2	506.9	0.073		2773.9			
2018	08-27-2018	23	225.9	313.1	0.018		2442.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-28-2018	0	174.5	210.9	0.012		2444.1			
2018	08-28-2018	1	144	164.3	0.031		2421.9			
2018	08-28-2018	2	145.7	126.4	0.048		2259.7			
2018	08-28-2018	3	161.5	141.8	0.047		2185.7			
2018	08-28-2018	4	151.1	138.4	0.046		2194.4			
2018	08-28-2018	5	141.1	154.4	0.046		2191.7			
2018	08-28-2018	6	111.5	206.4	0.046		2193.3			
2018	08-28-2018	7	110.4	241.2	0.046		2201			
2018	08-28-2018	8	232.3	404.6	0.046		2397			
2018	08-28-2018	9	186.3	431.9	0.058		2341.4			
2018	08-28-2018	10	327.6	546	0.087		2370.6			
2018	08-28-2018	11	554.2	731.7	0.298		2638.8			
2018	08-28-2018	12	579.8	850.3	0.383		3078.6			
2018	08-28-2018	13	562.5	910.5	0.386		3190.8			
2018	08-28-2018	14	592.8	977	0.592		3470.8			
2018	08-28-2018	15	639.4	989.8	0.793		3566.1			
2018	08-28-2018	16	579.6	900.5	0.818		3559.7			
2018	08-28-2018	17	566.6	870.7	0.8		3552.2			
2018	08-28-2018	18	640.4	911.2	0.738		3542.1			
2018	08-28-2018	19	651.2	772.3	0.437		3490.6			
2018	08-28-2018	20	587.6	852.4	0.131		3430.9			
2018	08-28-2018	21	396	531.7			3234.7			
2018	08-28-2018	22	349.1	416.7			2989.8			
2018	08-28-2018	23	235.8	260.7			2706			
2018	08-29-2018	0	152.5	165.5			2316.6			
2018	08-29-2018	1	83.7	126.5			2065.2			
2018	08-29-2018	2	69	92.8			1855.6			
2018	08-29-2018	3	77.1	113.7			1871.2			
2018	08-29-2018	4	86.5	128.4			1865			
2018	08-29-2018	5	221.6	188.2			1864.8			
2018	08-29-2018	6	199.5	199.1			1867.5			
2018	08-29-2018	7	232.7	370			1872.4			
2018	08-29-2018	8	245.5	366			1985.1			
2018	08-29-2018	9	442	590.7			2402.2			
2018	08-29-2018	10	473.2	716.2	0.045		2696.1			
2018	08-29-2018	11	343.8	846	0.085		3024.5			
2018	08-29-2018	12	383.6	824.6	0.117		3081.1			
2018	08-29-2018	13	413.4	915.5	0.295		3379			
2018	08-29-2018	14	477.2	674.4	0.404		3494.8			
2018	08-29-2018	15	538.5	830.8	0.522		3501.8			
2018	08-29-2018	16	495.8	639.3	0.785		3506.4			
2018	08-29-2018	17	460.8	406.4	0.76		3468.1			
2018	08-29-2018	18	451.7	241.7	0.569		3422.6			
2018	08-29-2018	19	284.6	191.6	0.083		3485.4			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-29-2018	20	197.1	168.5			3293.5			
2018	08-29-2018	21	138	136.4			2941			
2018	08-29-2018	22	139.7	138.6			2711.9			
2018	08-29-2018	23	186.7	162.6			2732.1			
2018	08-30-2018	0	105.9	132.5			2372.2			
2018	08-30-2018	1	57.5	107.1			2185.9			
2018	08-30-2018	2	49.2	78.6			1890.8			
2018	08-30-2018	3	52.4	76.6			1852.2			
2018	08-30-2018	4	50.7	78.4			1876.9			
2018	08-30-2018	5	50.3	77.4			1860			
2018	08-30-2018	6	57.8	90.6			1857.6			
2018	08-30-2018	7	55.7	69.8			1849.2			
2018	08-30-2018	8	77.9	121.1			1902.4			
2018	08-30-2018	9	85.5	147.4			2062.9			
2018	08-30-2018	10	142.1	219.2			2032.6			
2018	08-30-2018	11	178.4	222.5			2114.1			
2018	08-30-2018	12	253.1	292.8			2193.9			
2018	08-30-2018	13	394.9	448.7			2604.4			
2018	08-30-2018	14	534.8	625.1			2963.9			
2018	08-30-2018	15	574.1	639.1			3023.7			
2018	08-30-2018	16	543.1	692.4			3173.9			
2018	08-30-2018	17	512.3	718.5			3344.4			
2018	08-30-2018	18	433.5	488.5			3185.4			
2018	08-30-2018	19	489.1	689.8			3319			
2018	08-30-2018	20	364.1	551.7			3327.1			
2018	08-30-2018	21	247.1	478.1			2965			
2018	08-30-2018	22	155.1	394.5			2623.4			
2018	08-30-2018	23	105.9	120.776			2356.8			
2018	08-31-2018	0	55.4				2146.5			
2018	08-31-2018	1	40.5				1859.1			
2018	08-31-2018	2	39.6				1881.8			
2018	08-31-2018	3	46.1				1873.7			
2018	08-31-2018	4	42.8				1896.3			
2018	08-31-2018	5	33.3				1883.4			
2018	08-31-2018	6	60.2				2118			
2018	08-31-2018	7	62.1				2057.1			
2018	08-31-2018	8	92.9				2135.8			
2018	08-31-2018	9	141.3				2126.6			
2018	08-31-2018	10	212.9				2288.9			
2018	08-31-2018	11	324				2443.1			
2018	08-31-2018	12	400.2				2615.2			
2018	08-31-2018	13	604.1				2864.4			
2018	08-31-2018	14	755.4				3219			
2018	08-31-2018	15	1079.3				3442.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	08-31-2018	16	1024.5				3489			
2018	08-31-2018	17	1096.2				3450.2			
2018	08-31-2018	18	1219.2				3467.1			
2018	08-31-2018	19	1241				3475.6			
2018	08-31-2018	20	1096.9				3434.1			
2018	08-31-2018	21	886				3159.6			
2018	08-31-2018	22	683.9				2833.1			
2018	08-31-2018	23	446.8				2452.1			
2018	09-01-2018	0	336.3				2159			
2018	09-01-2018	1	201				1902.6			
2018	09-01-2018	2	186.3				1898.9			
2018	09-01-2018	3	188.1				1901.4			
2018	09-01-2018	4	204.1				1908.6			
2018	09-01-2018	5	190.1				1903.5			
2018	09-01-2018	6	220.1				1910.6			
2018	09-01-2018	7	226.3				1908.2			
2018	09-01-2018	8	210.8				1913.9			
2018	09-01-2018	9	324.6				1906			
2018	09-01-2018	10	475.4				1900			
2018	09-01-2018	11	776.2				2039.9			
2018	09-01-2018	12	1012.4				2224.3			
2018	09-01-2018	13	1361.9				2502.1			
2018	09-01-2018	14	1413.2				2748.6			
2018	09-01-2018	15	1419.4				2859.9			
2018	09-01-2018	16	1172.4				2694.1			
2018	09-01-2018	17	574.1				2547.4			
2018	09-01-2018	18	563.5				2661.1			
2018	09-01-2018	19	505.2				2434.9			
2018	09-01-2018	20	397.2				2134.3			
2018	09-01-2018	21	276.5				1941.7			
2018	09-01-2018	22	206				1936.6			
2018	09-01-2018	23	182.8				1933.5			
2018	09-02-2018	0	135.2				1933.2			
2018	09-02-2018	1	100.5				1922.8			
2018	09-02-2018	2	72				1923.1			
2018	09-02-2018	3	72.4				1922.2			
2018	09-02-2018	4	91.2				1918.7			
2018	09-02-2018	5	82.2				1917.8			
2018	09-02-2018	6	113.4				1925			
2018	09-02-2018	7	136.1				1925.2			
2018	09-02-2018	8	213.7				1930.9			
2018	09-02-2018	9	238.6				1921.1			
2018	09-02-2018	10	304.9				2169.4			
2018	09-02-2018	11	334.6				2149.3			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-02-2018	12	294.3				2172.6			
2018	09-02-2018	13	475.7				2233			
2018	09-02-2018	14	582				2273.3			
2018	09-02-2018	15	865.7				2606.8			
2018	09-02-2018	16	1087.3				2969.8			
2018	09-02-2018	17	1232.1				3201.7			
2018	09-02-2018	18	1285.7				3400.6			
2018	09-02-2018	19	1254.9				3484.8			
2018	09-02-2018	20	995.5				3151.2			
2018	09-02-2018	21	665.9				2801.2			
2018	09-02-2018	22	315.2				2423.8			
2018	09-02-2018	23	259.7				2243.7			
2018	09-03-2018	0	185.3				2154.8			
2018	09-03-2018	1	177.4				1938.4			
2018	09-03-2018	2	156.5				1911.5			
2018	09-03-2018	3	159.1				1923.2			
2018	09-03-2018	4	167.8				1932.6			
2018	09-03-2018	5	167.7				1930.6			
2018	09-03-2018	6	188.6				1924.7			
2018	09-03-2018	7	210.8				1927.3			
2018	09-03-2018	8	229.5				1938.3			
2018	09-03-2018	9	374.4				1946.1			
2018	09-03-2018	10	548.4				2184			
2018	09-03-2018	11	803.7				2277.3			
2018	09-03-2018	12	1086.8				2825.5			
2018	09-03-2018	13	1197.8				3216.4			
2018	09-03-2018	14	1178.9				3393.9			
2018	09-03-2018	15	1185.3				3480.9			
2018	09-03-2018	16	1166.7				3488.5			
2018	09-03-2018	17	1122				3385.5			
2018	09-03-2018	18	1189.5				3226.8			
2018	09-03-2018	19	1200.4				3267			
2018	09-03-2018	20	1029.2				3167.3			
2018	09-03-2018	21	935.8				2846.6			
2018	09-03-2018	22	786.9				2545			
2018	09-03-2018	23	622.1				2278.1			
2018	09-04-2018	0	465.5		0.019		2067.7			
2018	09-04-2018	1	379.1		0.033		1914.5			
2018	09-04-2018	2	285.9		0.043		1910			
2018	09-04-2018	3	209.5		0.051		1911.6			
2018	09-04-2018	4	191.9		0.041		1912.6			
2018	09-04-2018	5	207.1		0.042		1920.6			
2018	09-04-2018	6	233.5		0.045		1916			
2018	09-04-2018	7	277.1		0.066		1911.7			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-04-2018	8	402.5		0.072		2018.1			
2018	09-04-2018	9	583.3		0.059		2282.7			
2018	09-04-2018	10	880.3	0	0.06		2630.8			
2018	09-04-2018	11	1168.8	0	0.085		2813.8			
2018	09-04-2018	12	1189.7	0	0.274		3089.9			
2018	09-04-2018	13	1254.2	0	0.363		3417.8			
2018	09-04-2018	14	1283.9	0	0.337		3501.8			
2018	09-04-2018	15	1297.2	0	0.332		3497.7			
2018	09-04-2018	16	1218.4	0	0.331		3489.2			
2018	09-04-2018	17	1261.8	0	0.109		3509.2			
2018	09-04-2018	18	1304.4	0			3449.5			
2018	09-04-2018	19	1309.7	0			3400.5			
2018	09-04-2018	20	1096.7	0			3121.1			
2018	09-04-2018	21	998.3	0			2855.4			
2018	09-04-2018	22	743.2	0			2519.6			
2018	09-04-2018	23	642.3	0			2402			
2018	09-05-2018	0	465.6	0			2390			
2018	09-05-2018	1	357.3	18.9			2024.8			
2018	09-05-2018	2	304.4	52.6			1951.1			
2018	09-05-2018	3	264.5	56.8			1946.1			
2018	09-05-2018	4	272.7	68.1			1944.9			
2018	09-05-2018	5	346.1	55.7			2065.3			
2018	09-05-2018	6	410.8	64.5			2187.1			
2018	09-05-2018	7	422.9	83.1			2181.2			
2018	09-05-2018	8	319.2	201.8			2251.9			
2018	09-05-2018	9	429.1	281.2			2514.8			
2018	09-05-2018	10	549.9	348.6			2838.7			
2018	09-05-2018	11	592	220.2			2966.1			
2018	09-05-2018	12	438.1	204.3			3028.6			
2018	09-05-2018	13	474.4	229.7			3342.7			
2018	09-05-2018	14	595.6	251.6			3427			
2018	09-05-2018	15	606.7	243.1			3451.2			
2018	09-05-2018	16	543.4	232.9			3448.8			
2018	09-05-2018	17	504.3	206.5			3449.1			
2018	09-05-2018	18	394.5	191.5			3320.5			
2018	09-05-2018	19	312.4	188.4			3310.9			
2018	09-05-2018	20	320.5	199.4			3296.3			
2018	09-05-2018	21	300.4	181.7			3050.5			
2018	09-05-2018	22	254	170.7			2722.2			
2018	09-05-2018	23	199.4	140.7			2360.1			
2018	09-06-2018	0	169.5	100.4			2004.1			
2018	09-06-2018	1	125.1	106.5			1871.3			
2018	09-06-2018	2	84.9	105.3			1915			
2018	09-06-2018	3	73	92			1921.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-06-2018	4	96.4	91.9			1856.4			
2018	09-06-2018	5	124.7	113.6			1873.2			
2018	09-06-2018	6	168.7	151.2			1875.7			
2018	09-06-2018	7	227.8	215.8			1832.1			
2018	09-06-2018	8	226.8	187.1			1810.3			
2018	09-06-2018	9	289.9	281.2			1901.9			
2018	09-06-2018	10	271.4	320.4			2140.5			
2018	09-06-2018	11	245.4	279			2146.8			
2018	09-06-2018	12	224	205.6			2536.5			
2018	09-06-2018	13	250.5	210			2937			
2018	09-06-2018	14	278.3	242.4			3178			
2018	09-06-2018	15	242.6	196.3			3269			
2018	09-06-2018	16	224.2	185.6			3228.4			
2018	09-06-2018	17	205.4	158.2			3088.2	0.029		
2018	09-06-2018	18	225.6	178.6			2819.1	0.07		
2018	09-06-2018	19	220.9	260.8			2702.1	0.094		
2018	09-06-2018	20	313.2	249.3			2411.6	0.094		
2018	09-06-2018	21	250.9	180.1			2160.4	0.094		
2018	09-06-2018	22	293.2	145			1779.6	0.094		
2018	09-06-2018	23	74.005	148.1			511.746	0.094		
2018	09-07-2018	0		102				0.094		
2018	09-07-2018	1		175.4				0.094		
2018	09-07-2018	2		188.4				0.094		
2018	09-07-2018	3		190.5				0.094		
2018	09-07-2018	4		192.9				0.094		
2018	09-07-2018	5		165.8				0.094		
2018	09-07-2018	6		220.3				0.094		
2018	09-07-2018	7		200.9				0.094		
2018	09-07-2018	8		201.9				0.094		
2018	09-07-2018	9		234.7				0.094		
2018	09-07-2018	10		251.1				0.094		
2018	09-07-2018	11		330.8				0.094		
2018	09-07-2018	12		580.7				0.083		
2018	09-07-2018	13		637.1						
2018	09-07-2018	14		686.1						
2018	09-07-2018	15		917.1						
2018	09-07-2018	16		1105.3						
2018	09-07-2018	17		775.9						
2018	09-07-2018	18		587.9						
2018	09-07-2018	19		548.5						
2018	09-07-2018	20		375.8						
2018	09-07-2018	21		225.9						
2018	09-07-2018	22		182.7						
2018	09-07-2018	23		103.39						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-08-2018	0								
2018	09-08-2018	1								
2018	09-08-2018	2								
2018	09-08-2018	3								
2018	09-08-2018	4								
2018	09-08-2018	5								
2018	09-08-2018	6								
2018	09-08-2018	7								
2018	09-08-2018	8								
2018	09-08-2018	9								
2018	09-08-2018	10								
2018	09-08-2018	11								
2018	09-08-2018	12								
2018	09-08-2018	13								
2018	09-08-2018	14								
2018	09-08-2018	15								
2018	09-08-2018	16								
2018	09-08-2018	17								
2018	09-08-2018	18								
2018	09-08-2018	19								
2018	09-08-2018	20								
2018	09-08-2018	21								
2018	09-08-2018	22								
2018	09-08-2018	23								
2018	09-09-2018	0								
2018	09-09-2018	1								
2018	09-09-2018	2								
2018	09-09-2018	3								
2018	09-09-2018	4								
2018	09-09-2018	5								
2018	09-09-2018	6								
2018	09-09-2018	7								
2018	09-09-2018	8								
2018	09-09-2018	9								
2018	09-09-2018	10								
2018	09-09-2018	11								
2018	09-09-2018	12								
2018	09-09-2018	13								
2018	09-09-2018	14								
2018	09-09-2018	15								
2018	09-09-2018	16								
2018	09-09-2018	17								
2018	09-09-2018	18								
2018	09-09-2018	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-09-2018	20								
2018	09-09-2018	21								
2018	09-09-2018	22								
2018	09-09-2018	23								
2018	09-10-2018	0								
2018	09-10-2018	1								
2018	09-10-2018	2								
2018	09-10-2018	3								
2018	09-10-2018	4								
2018	09-10-2018	5								
2018	09-10-2018	6								
2018	09-10-2018	7								
2018	09-10-2018	8								
2018	09-10-2018	9								
2018	09-10-2018	10								
2018	09-10-2018	11								
2018	09-10-2018	12								
2018	09-10-2018	13								
2018	09-10-2018	14								
2018	09-10-2018	15								
2018	09-10-2018	16								
2018	09-10-2018	17								
2018	09-10-2018	18								
2018	09-10-2018	19								
2018	09-10-2018	20								
2018	09-10-2018	21								
2018	09-10-2018	22								
2018	09-10-2018	23								
2018	09-11-2018	0								
2018	09-11-2018	1								
2018	09-11-2018	2								
2018	09-11-2018	3								
2018	09-11-2018	4								
2018	09-11-2018	5								
2018	09-11-2018	6								
2018	09-11-2018	7								
2018	09-11-2018	8								
2018	09-11-2018	9								
2018	09-11-2018	10								
2018	09-11-2018	11								
2018	09-11-2018	12								
2018	09-11-2018	13								
2018	09-11-2018	14								
2018	09-11-2018	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-11-2018	16		0						
2018	09-11-2018	17		0						
2018	09-11-2018	18		0						
2018	09-11-2018	19		0						
2018	09-11-2018	20		0						
2018	09-11-2018	21		0						
2018	09-11-2018	22		0						
2018	09-11-2018	23		0						
2018	09-12-2018	0		0						
2018	09-12-2018	1		0						
2018	09-12-2018	2		7.8						
2018	09-12-2018	3		24.3						
2018	09-12-2018	4		26.1						
2018	09-12-2018	5		31.3						
2018	09-12-2018	6		57.7						
2018	09-12-2018	7		78.4						
2018	09-12-2018	8		171.2						
2018	09-12-2018	9		219						
2018	09-12-2018	10		257.8						
2018	09-12-2018	11		207.8						
2018	09-12-2018	12		307.9						
2018	09-12-2018	13		526.3						
2018	09-12-2018	14		688.5						
2018	09-12-2018	15		974.5						
2018	09-12-2018	16		1086.4						
2018	09-12-2018	17		1071.8						
2018	09-12-2018	18		896.1						
2018	09-12-2018	19		757.2						
2018	09-12-2018	20		486.5						
2018	09-12-2018	21		348.7						
2018	09-12-2018	22		233.1						
2018	09-12-2018	23		131.2						
2018	09-13-2018	0		77.7						
2018	09-13-2018	1		70						
2018	09-13-2018	2		67.8						
2018	09-13-2018	3		70.1						
2018	09-13-2018	4		76.2						
2018	09-13-2018	5		68.5						
2018	09-13-2018	6		94.3						
2018	09-13-2018	7		102.4						
2018	09-13-2018	8		145.6						
2018	09-13-2018	9		284.4						
2018	09-13-2018	10		399.1						
2018	09-13-2018	11		544.7						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-13-2018	12		811.1						
2018	09-13-2018	13		911.9						
2018	09-13-2018	14		739.6						
2018	09-13-2018	15		712.3						
2018	09-13-2018	16		616.7						
2018	09-13-2018	17		535.7						
2018	09-13-2018	18		457.2						
2018	09-13-2018	19		575.3						
2018	09-13-2018	20		516.4						
2018	09-13-2018	21		403.1						
2018	09-13-2018	22		227.4						
2018	09-13-2018	23		107.4						
2018	09-14-2018	0		72.7						
2018	09-14-2018	1		72.6						
2018	09-14-2018	2		72.7						
2018	09-14-2018	3		76.7						
2018	09-14-2018	4		82.4						
2018	09-14-2018	5		122.3						
2018	09-14-2018	6		207.4						
2018	09-14-2018	7		330.4						
2018	09-14-2018	8		432.4						
2018	09-14-2018	9		498.1						
2018	09-14-2018	10		578.1						
2018	09-14-2018	11		652.6						
2018	09-14-2018	12		814						
2018	09-14-2018	13		853.8						
2018	09-14-2018	14		963.2						
2018	09-14-2018	15		1069.1						
2018	09-14-2018	16		1242.5						
2018	09-14-2018	17		980.7						
2018	09-14-2018	18		712						
2018	09-14-2018	19		770.8						
2018	09-14-2018	20		828.6						
2018	09-14-2018	21		850.9						
2018	09-14-2018	22		574.1						
2018	09-14-2018	23		532.8						
2018	09-15-2018	0		341.7						
2018	09-15-2018	1		222.4						
2018	09-15-2018	2	0	153.2						
2018	09-15-2018	3	0	164.6						
2018	09-15-2018	4	0	174.9						
2018	09-15-2018	5	0	131.6						
2018	09-15-2018	6	15.6	158						
2018	09-15-2018	7	20.4	173.3						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-15-2018	8	17.4	311.3						
2018	09-15-2018	9	16.7	545.3						
2018	09-15-2018	10	16.4	570.4						
2018	09-15-2018	11	15.2	941.5						
2018	09-15-2018	12	16	887.1						
2018	09-15-2018	13	21.1	904.4						
2018	09-15-2018	14	85.4	1030.7						
2018	09-15-2018	15	68.8	1079.8						
2018	09-15-2018	16	70.7	1050.8						
2018	09-15-2018	17	111.6	968.8						
2018	09-15-2018	18	217	902.7						
2018	09-15-2018	19	315.6	901.9						
2018	09-15-2018	20	394.2	911.6						
2018	09-15-2018	21	488.1	854.3						
2018	09-15-2018	22	436.8	482.7						
2018	09-15-2018	23	136.7	360.5						
2018	09-16-2018	0	135.7	185.8						
2018	09-16-2018	1	126.7	131.5						
2018	09-16-2018	2	124.3	131.8						
2018	09-16-2018	3	129.8	132.9						
2018	09-16-2018	4	129.5	135						
2018	09-16-2018	5	121.2	132.9						
2018	09-16-2018	6	121.4	124.7						
2018	09-16-2018	7	121.5	136						
2018	09-16-2018	8	152.9	156.3						
2018	09-16-2018	9	276.1	306.6						
2018	09-16-2018	10	266.7	489						
2018	09-16-2018	11	287.8	641.4						
2018	09-16-2018	12	446.7	909.3						
2018	09-16-2018	13	676.5	976.9						
2018	09-16-2018	14	793	990.5						
2018	09-16-2018	15	756.5	1111.7						
2018	09-16-2018	16	963.3	1165.6						
2018	09-16-2018	17	1316.3	975.4						
2018	09-16-2018	18	1391.7	921.2						
2018	09-16-2018	19	1341.1	940.9						
2018	09-16-2018	20	1109.9	907.2						
2018	09-16-2018	21	1028.9	881.2						
2018	09-16-2018	22	635.7	527						
2018	09-16-2018	23	343.4	295.5						
2018	09-17-2018	0	279.7	216						
2018	09-17-2018	1	194	148.8						
2018	09-17-2018	2	166.9	142.4						
2018	09-17-2018	3	170	165.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-17-2018	4	173.4	174.6						
2018	09-17-2018	5	187.5	140.3						
2018	09-17-2018	6	302	183.5						
2018	09-17-2018	7	315.5	196.8						
2018	09-17-2018	8	343.4	278.6						
2018	09-17-2018	9	570.5	388.2						
2018	09-17-2018	10	796	460						
2018	09-17-2018	11	960.4	570.4		0				
2018	09-17-2018	12	1473.2	636.6		0				
2018	09-17-2018	13	1625.5	972.3		0				
2018	09-17-2018	14	1667.9	1198.6		0				
2018	09-17-2018	15	1641.9	1484.6		0				
2018	09-17-2018	16	1589.2	1511.2		0	0			
2018	09-17-2018	17	1604.9	1554.3		0	0			
2018	09-17-2018	18	1683.5	1517		0	0			
2018	09-17-2018	19	1592.1	1571.8		0	0			
2018	09-17-2018	20	1600.2	1473.4		0	23.7			
2018	09-17-2018	21	1706.2	1457.3		0	239.9			
2018	09-17-2018	22	1467.7	1194.5		0	308.4			
2018	09-17-2018	23	1127.4	981.2		0	334			
2018	09-18-2018	0	570	540.7		0	321			
2018	09-18-2018	1	309.2	380.8		0	140.4			
2018	09-18-2018	2	234.5	192.1		0	98.77			
2018	09-18-2018	3	213.4	161.7		0	267.1			
2018	09-18-2018	4	245.8	224.1		0	259.7			
2018	09-18-2018	5	337.1	360.8		0	271.2			
2018	09-18-2018	6	434.9	422		0	421.5			
2018	09-18-2018	7	393.4	308.1		0	759.3			
2018	09-18-2018	8	169.1	155.3		0	1157.2			
2018	09-18-2018	9	218	192.4		0	1757			
2018	09-18-2018	10	335.5	334.2		0	1728.4			
2018	09-18-2018	11	414.9	400.5			1711.5			
2018	09-18-2018	12	587.7	594.6			2125.2			
2018	09-18-2018	13	702.8	721.3			2600			
2018	09-18-2018	14	744.8	773.5			3108.5			
2018	09-18-2018	15	746.6	838.7			3283.2			
2018	09-18-2018	16	776.3	856.3			3350.3			
2018	09-18-2018	17	801	769.9			3318.7			
2018	09-18-2018	18	734.8	558.2			3258.7			
2018	09-18-2018	19	838.2	748.3			3176.6			
2018	09-18-2018	20	787.8	536.5			2971.8			
2018	09-18-2018	21	536.9	296.3			2708.8			
2018	09-18-2018	22	280.1	198.7			2472.3			
2018	09-18-2018	23	140.1	133.1			2197.4			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-19-2018	0	90.1	102.7			1932.1			
2018	09-19-2018	1	90.1	102.4			1874.6			
2018	09-19-2018	2	86.4	99.1			1838.3			
2018	09-19-2018	3	79.8	99.5			1821.7			
2018	09-19-2018	4	83.4	98.1			1836.7			
2018	09-19-2018	5	125.8	79.4			1961.2			
2018	09-19-2018	6	237.6	124.5			1964.7			
2018	09-19-2018	7	301.2	265.1			1994.6			
2018	09-19-2018	8	713.8	543.8			2028			
2018	09-19-2018	9	841.8	760.4			2272.3			
2018	09-19-2018	10	848.9	765.1			2655.6			
2018	09-19-2018	11	841	773.4			3031.3			
2018	09-19-2018	12	766.8	778.2			3264.4			
2018	09-19-2018	13	748.2	711.8			3406.7			
2018	09-19-2018	14	746	707.6			3413			
2018	09-19-2018	15	700.8	737.6			3430.3			
2018	09-19-2018	16	731.4	707.7			3445.1			
2018	09-19-2018	17	539.2	620.7			3357			
2018	09-19-2018	18	603.6	549.5			3280.3			
2018	09-19-2018	19	672.5	722			3322.2			
2018	09-19-2018	20	614.5	708.4			3349.2			
2018	09-19-2018	21	347.1	437.2			3233.7			
2018	09-19-2018	22	212	244.1			2953.2			
2018	09-19-2018	23	125.2	178.2			2687.9			
2018	09-20-2018	0	77.9	109			2340.3			
2018	09-20-2018	1	75.7	89.3			2053			
2018	09-20-2018	2	79.8	87.8			1902.5			
2018	09-20-2018	3	77.6	71.2			1824.2			
2018	09-20-2018	4	82.7	70.3			1814.3			
2018	09-20-2018	5	90.5	99.9			1838.6			
2018	09-20-2018	6	117.3	152.3			1824.5			
2018	09-20-2018	7	101.4	143.5			1983.3			
2018	09-20-2018	8	112.2	149.6			2042.4			
2018	09-20-2018	9	144.4	192.9			2110.3			
2018	09-20-2018	10	255.1	234.6			2217.2			
2018	09-20-2018	11	330.9	339.4			2539.7			
2018	09-20-2018	12	372.8	561.7			3031.1			
2018	09-20-2018	13	437.4	692.1			3271.4			
2018	09-20-2018	14	432.8	660.3			3334.7			
2018	09-20-2018	15	649.5	701.6			3280.2			
2018	09-20-2018	16	773.6	707.8			3302.2			
2018	09-20-2018	17	812	637.6			3219.9			
2018	09-20-2018	18	823.7	685.4			3129			
2018	09-20-2018	19	814.3	691.5			3297.1			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-20-2018	20	512.2	372.2			3191.8			
2018	09-20-2018	21	363.4	231			2907.8			
2018	09-20-2018	22	234.3	171.6			2637.1			
2018	09-20-2018	23	132.5	127			2343.6			
2018	09-21-2018	0	91.7	78.2			2022.4			
2018	09-21-2018	1	85.7	81.8			1827.9			
2018	09-21-2018	2	85.4	81.4			1781.2			
2018	09-21-2018	3	84.8	84.4			1787.7			
2018	09-21-2018	4	89.7	84.8			1783.8			
2018	09-21-2018	5	124	72.5			2052.7			
2018	09-21-2018	6	185.5	116.3			2077.2			
2018	09-21-2018	7	197.5	118.6			2045.8			
2018	09-21-2018	8	181.3	119.1			1950.5			
2018	09-21-2018	9	220.1	122.2			1987.1			
2018	09-21-2018	10	175.9	127.2			1989.4			
2018	09-21-2018	11	250.5	160.1			2075.3			
2018	09-21-2018	12	371.3	212.9			2220.5			
2018	09-21-2018	13	512.1	196			2291.8			
2018	09-21-2018	14	398.3	135.1			2277.9			
2018	09-21-2018	15	308.1	144.2			2059.1			
2018	09-21-2018	16	216.3	133.3			1954.1			
2018	09-21-2018	17	211	148.1		0	1964.2			
2018	09-21-2018	18	304.5	194.8		0	1946.2			
2018	09-21-2018	19	247.3	169.6		0	1960			
2018	09-21-2018	20	351.1	213.8		0	2146.6			
2018	09-21-2018	21	218	168.1		0	2040			
2018	09-21-2018	22	209.1	139.6		0	1887.1			
2018	09-21-2018	23	135.3	85.8		0	252.2			
2018	09-22-2018	0	111.6	85		0				
2018	09-22-2018	1	111.5	87.2		0				
2018	09-22-2018	2	103.3	84.4		0				
2018	09-22-2018	3	99.6	85.2		0				
2018	09-22-2018	4	99.7	85.1		0				
2018	09-22-2018	5	100.6	89		0				
2018	09-22-2018	6	128.8	78.5						
2018	09-22-2018	7	136.7	97.5						
2018	09-22-2018	8	288	250.4						
2018	09-22-2018	9	249	226.4						
2018	09-22-2018	10	396.9	357.8						
2018	09-22-2018	11	793.9	542						
2018	09-22-2018	12	837.8	572.1						
2018	09-22-2018	13	683.1	593.2						
2018	09-22-2018	14	685.6	561.5						
2018	09-22-2018	15	643.7	556						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-22-2018	16	560.7	484.1						
2018	09-22-2018	17	577.1	513.7						
2018	09-22-2018	18	811.3	522.5						
2018	09-22-2018	19	756	468.9						
2018	09-22-2018	20	483.5	327.9						
2018	09-22-2018	21	441.7	280.3						
2018	09-22-2018	22	387.5	233.9						
2018	09-22-2018	23	298.3	198.6						
2018	09-23-2018	0	269.9	192.3						
2018	09-23-2018	1	264.3	181.2						
2018	09-23-2018	2	258.6	170.3						
2018	09-23-2018	3	246.3	164.9						
2018	09-23-2018	4	245.5	156.4						
2018	09-23-2018	5	235.9	117						
2018	09-23-2018	6	249.6	150.2						
2018	09-23-2018	7	241.9	181.8						
2018	09-23-2018	8	248.8	172.4						
2018	09-23-2018	9	246.9	171.8						
2018	09-23-2018	10	242.5	175.8						
2018	09-23-2018	11	253.1	188.8						
2018	09-23-2018	12	317.2	223.1						
2018	09-23-2018	13	256.4	175.2						
2018	09-23-2018	14	264.5	169.7						
2018	09-23-2018	15	322.9	282						
2018	09-23-2018	16	475.5	296.6						
2018	09-23-2018	17	362.3	268.6						
2018	09-23-2018	18	262.9	226.1						
2018	09-23-2018	19	266.9	258.8						
2018	09-23-2018	20	257.8	186.9						
2018	09-23-2018	21	258.8	171.5						
2018	09-23-2018	22	259.4	158.9						
2018	09-23-2018	23	261	162.6						
2018	09-24-2018	0	261.5	163.1						
2018	09-24-2018	1	251.5	158.7						
2018	09-24-2018	2	246.6	156						
2018	09-24-2018	3	248.3	164.8						
2018	09-24-2018	4	276.1	163.1						
2018	09-24-2018	5	272	164.4						
2018	09-24-2018	6	292.5	166.9						
2018	09-24-2018	7	295.8	165.7						
2018	09-24-2018	8	298.5	173.5						
2018	09-24-2018	9	295	176						
2018	09-24-2018	10	268.8	157.1						
2018	09-24-2018	11	271.8	164.6						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-24-2018	12	267.7	160.8						
2018	09-24-2018	13	267	157.6						
2018	09-24-2018	14	277.9	159.7						
2018	09-24-2018	15	282.5	185.8						
2018	09-24-2018	16	291.1	165.1						
2018	09-24-2018	17	283.2	168.8						
2018	09-24-2018	18	304.8	173.1						
2018	09-24-2018	19	299.7	167.3						
2018	09-24-2018	20	311.5	166.2						
2018	09-24-2018	21	313.7	177.2						
2018	09-24-2018	22	295.4	174.1						
2018	09-24-2018	23	273.8	179.2						
2018	09-25-2018	0	275.9	176.6						
2018	09-25-2018	1	281.3	178						
2018	09-25-2018	2	269.9	169.5						
2018	09-25-2018	3	275.2	171.5						
2018	09-25-2018	4	293	169						
2018	09-25-2018	5	432.8	196						
2018	09-25-2018	6	551	331.6						
2018	09-25-2018	7	565.4	374.6						
2018	09-25-2018	8	513.4	389						
2018	09-25-2018	9	719	455.7						
2018	09-25-2018	10	457.3	305.2						
2018	09-25-2018	11	689.7	340.3						
2018	09-25-2018	12	758	487.4						
2018	09-25-2018	13	1200.3	779.9						
2018	09-25-2018	14	1451.9	744.8						
2018	09-25-2018	15	891.7	571.7						
2018	09-25-2018	16	957	666.3						
2018	09-25-2018	17	1077.2	809.4						
2018	09-25-2018	18	1073.7	803.6						
2018	09-25-2018	19	1273.4	878.7						
2018	09-25-2018	20	817.9	583.2						
2018	09-25-2018	21	759.9	481.5						
2018	09-25-2018	22	494.9	366.9						
2018	09-25-2018	23	336.7	237.6						
2018	09-26-2018	0	294.7	225.5						
2018	09-26-2018	1	298.9	213.4						
2018	09-26-2018	2	283.6	220						
2018	09-26-2018	3	287.4	238.3						
2018	09-26-2018	4	342.2	277						
2018	09-26-2018	5	454.4	329.8						
2018	09-26-2018	6	581.5	311.3						
2018	09-26-2018	7	495.5	378.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-26-2018	8	730.7	599.7						
2018	09-26-2018	9	1075.4	968						
2018	09-26-2018	10	1698.7	1553.1						
2018	09-26-2018	11	1837.7	1561.9						
2018	09-26-2018	12	1815.9	1266.2						
2018	09-26-2018	13	1564.6	1162.6						
2018	09-26-2018	14	1482.2	1386.9						
2018	09-26-2018	15	1760.2	1346.9						
2018	09-26-2018	16	1563.8	1401.9						
2018	09-26-2018	17	1654.4	1488.4						
2018	09-26-2018	18	1914.6	1512.6						
2018	09-26-2018	19	1670.9	902.1						
2018	09-26-2018	20	1462	317.7						
2018	09-26-2018	21	952.4	233.2						
2018	09-26-2018	22	741	273						
2018	09-26-2018	23	11.747	162.012						
2018	09-27-2018	0								
2018	09-27-2018	1								
2018	09-27-2018	2								
2018	09-27-2018	3								
2018	09-27-2018	4								
2018	09-27-2018	5								
2018	09-27-2018	6								
2018	09-27-2018	7								
2018	09-27-2018	8								
2018	09-27-2018	9								
2018	09-27-2018	10								
2018	09-27-2018	11								
2018	09-27-2018	12								
2018	09-27-2018	13								
2018	09-27-2018	14				0				
2018	09-27-2018	15				0				
2018	09-27-2018	16				0				
2018	09-27-2018	17				0				
2018	09-27-2018	18				0				
2018	09-27-2018	19				0				
2018	09-27-2018	20				0				
2018	09-27-2018	21				0	0			
2018	09-27-2018	22				0	0			
2018	09-27-2018	23				0	0			
2018	09-28-2018	0				0	0			
2018	09-28-2018	1				0	49.9			
2018	09-28-2018	2				0	219.4			
2018	09-28-2018	3				0	262.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-28-2018	4				0	310.8			
2018	09-28-2018	5				0	448.2			
2018	09-28-2018	6				0	609.9			
2018	09-28-2018	7				0	1187.6			
2018	09-28-2018	8				0	1714			
2018	09-28-2018	9				0	1864.3			
2018	09-28-2018	10				0	1865.6			
2018	09-28-2018	11					2220.2			
2018	09-28-2018	12					2644.5			
2018	09-28-2018	13					3070.8			
2018	09-28-2018	14					3170.6			
2018	09-28-2018	15					3179.4			
2018	09-28-2018	16					3198.4			
2018	09-28-2018	17					3073.9			
2018	09-28-2018	18					3115.4			
2018	09-28-2018	19					3224.3			
2018	09-28-2018	20					3092.4			
2018	09-28-2018	21					2951.3			
2018	09-28-2018	22					2679.4			
2018	09-28-2018	23					2658.2			
2018	09-29-2018	0					2384.5			
2018	09-29-2018	1					2287.9			
2018	09-29-2018	2					2049.6			
2018	09-29-2018	3					1860.6			
2018	09-29-2018	4					1846.7			
2018	09-29-2018	5					1922.2			
2018	09-29-2018	6					1929.3			
2018	09-29-2018	7					2019.7			
2018	09-29-2018	8					2526.7			
2018	09-29-2018	9					2957			
2018	09-29-2018	10					3274.9			
2018	09-29-2018	11					3259.9			
2018	09-29-2018	12					3317.3			
2018	09-29-2018	13					3387.5			
2018	09-29-2018	14					3388.8			
2018	09-29-2018	15					3403			
2018	09-29-2018	16					3355			
2018	09-29-2018	17					3419.9			
2018	09-29-2018	18					3313.3			
2018	09-29-2018	19					3281.1			
2018	09-29-2018	20					3231.7			
2018	09-29-2018	21					2962.4			
2018	09-29-2018	22					2952.7			
2018	09-29-2018	23					2629.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	09-30-2018	0					2387.8			
2018	09-30-2018	1					2286			
2018	09-30-2018	2					1989.4			
2018	09-30-2018	3					1865.7			
2018	09-30-2018	4					1840.6			
2018	09-30-2018	5		0.072			1944.4			
2018	09-30-2018	6		3.3			1944.7			
2018	09-30-2018	7		3.3			1954.3			
2018	09-30-2018	8		5.7			2143.1			
2018	09-30-2018	9		5.8			2158.7			
2018	09-30-2018	10		5.8			2506.8			
2018	09-30-2018	11		5			2753.3			
2018	09-30-2018	12		6.8			3185.8			
2018	09-30-2018	13		6			3316.7			
2018	09-30-2018	14		6.8			3336.2			
2018	09-30-2018	15		5.1			3352.9			
2018	09-30-2018	16		4.2			3330.6			
2018	09-30-2018	17		4.7			3210			
2018	09-30-2018	18		44.1			3245.9			
2018	09-30-2018	19		58.6			3192.5			
2018	09-30-2018	20		58.1			3093.7			
2018	09-30-2018	21		46.3			2740.3			
2018	09-30-2018	22		39.3			2507.7			
2018	09-30-2018	23		44.1			2200.9			
2018	10-01-2018	0		103.7			1985.2			
2018	10-01-2018	1		179.7			1852.6			
2018	10-01-2018	2		383.4			1743.5			
2018	10-01-2018	3		476.4			1731.9			
2018	10-01-2018	4		410			1795.4			
2018	10-01-2018	5		311.7			1908.1			
2018	10-01-2018	6		149.1			1906.8			
2018	10-01-2018	7		139.4			1923			
2018	10-01-2018	8		170.3			2081			
2018	10-01-2018	9		336.6			2381.9			
2018	10-01-2018	10		752.7			2257.4			
2018	10-01-2018	11		1044.7			2483.3			
2018	10-01-2018	12	0	601.5			2232.8			
2018	10-01-2018	13	0	584.9			2246.2			
2018	10-01-2018	14	0	1074			2680.4			
2018	10-01-2018	15	0	930			2657.7			
2018	10-01-2018	16	0	1171.3			2924.1			
2018	10-01-2018	17	0	1075.3			2957.4			
2018	10-01-2018	18	0	1075.7			3030.1			
2018	10-01-2018	19	0	1129.9			3108.8			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-01-2018	20	0	987.3			2878.4			
2018	10-01-2018	21	0	887.3			2654.5			
2018	10-01-2018	22	0	944.1			2638.8			
2018	10-01-2018	23	0	651.1			2344.9			
2018	10-02-2018	0	4.5	471.9			2178.2			
2018	10-02-2018	1	0	451.8			2041.9			
2018	10-02-2018	2	3.1	438			1853.2			
2018	10-02-2018	3	13	445.3			1842.4			
2018	10-02-2018	4	22.7	432.2			1841.1			
2018	10-02-2018	5	49.8	930.8			2012.7			
2018	10-02-2018	6	238.8	964.4			2042.5			
2018	10-02-2018	7	439.3	446.6			1955.1			
2018	10-02-2018	8	239.4	257.9			1951.8			
2018	10-02-2018	9	214.5	195.4			1944.1			
2018	10-02-2018	10	232.5	135.3			1940.6			
2018	10-02-2018	11	265.7	127.1			1948.7			
2018	10-02-2018	12	289	122.7			1977.8			
2018	10-02-2018	13	330	131.6			1985.2			
2018	10-02-2018	14	213.4	159.8			2075			
2018	10-02-2018	15	290.3	275.1			2423.7			
2018	10-02-2018	16	560.7	437.9			2538.3			
2018	10-02-2018	17	970.3	816.7			2808			
2018	10-02-2018	18	892.7	1067.1			3004.4			
2018	10-02-2018	19	944.1	1037.6			3224.1			
2018	10-02-2018	20	765.2	672			3063.5			
2018	10-02-2018	21	664.7	414.1			2818.9			
2018	10-02-2018	22	513	321			2781			
2018	10-02-2018	23	332.9	207.2			2554.5			
2018	10-03-2018	0	228.4	136.3			2300.5			
2018	10-03-2018	1	126.4	125.9			2018.3			
2018	10-03-2018	2	116.9	123.4			1900			
2018	10-03-2018	3	222.2	182.7			2221.9			
2018	10-03-2018	4	352.4	349			2391.7			
2018	10-03-2018	5	538.1	358			2440.6			
2018	10-03-2018	6	441.3	319.8			2200.2			
2018	10-03-2018	7	339.9	324.6			1949			
2018	10-03-2018	8	539.5	619			1941			
2018	10-03-2018	9	827.9	1075.5			2121.2			
2018	10-03-2018	10	835.1	994.6			2260.1			
2018	10-03-2018	11	838.9	1140.7			2197.7			
2018	10-03-2018	12	880.9	1510			2599.9			
2018	10-03-2018	13	1051.4	1376.5			2993.8			
2018	10-03-2018	14	1011.5	1168.6			3210.2			
2018	10-03-2018	15	1078.4	1061.8			3323.6			



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-03-2018	16	1027.2	960.3			3273.8			
2018	10-03-2018	17	1042	713.4			3148.9			
2018	10-03-2018	18	1058.9	546.7			2981.1			
2018	10-03-2018	19	1014.5	464.9			2820.8			
2018	10-03-2018	20	504.1	351.1			2676.7			
2018	10-03-2018	21	316.1	185.7			2433.4			
2018	10-03-2018	22	172.5	115.1			2262.8			
2018	10-03-2018	23	124.3	74.6			1919.6			
2018	10-04-2018	0	119	64.1			1902.5			
2018	10-04-2018	1	119.5	74.9			1875.7			
2018	10-04-2018	2	117.9	88.4			1873.6			
2018	10-04-2018	3	119.7	117.7			1861			
2018	10-04-2018	4	122	142.1			1862.2			
2018	10-04-2018	5	135.2	155.2			1993.4			
2018	10-04-2018	6	157.3	129.3			1962.4			
2018	10-04-2018	7	134.3	128.5			1936.7			
2018	10-04-2018	8	325.1	141.9			1910.5			
2018	10-04-2018	9	232.5	229.7			1980.4			
2018	10-04-2018	10	401.1	328			2140			
2018	10-04-2018	11	655.8	528.3			2481.8			
2018	10-04-2018	12	838.9	1109.4			2800.6			
2018	10-04-2018	13	852.9	1249.6			3186.4			
2018	10-04-2018	14	878.8	1216.4			3341.2			
2018	10-04-2018	15	985	1102.4			3285			
2018	10-04-2018	16	825.9	630.1			3201.8			
2018	10-04-2018	17	1066.4	792		0	3164.3			
2018	10-04-2018	18	1063.6	1038.5		0	3249.1			
2018	10-04-2018	19	810.3	606.2		0	3130.6			
2018	10-04-2018	20	785.3	525.8		0	2835.8			
2018	10-04-2018	21	446.3	350		0	2498.6			
2018	10-04-2018	22	333.6	265.8		0	2011.6			
2018	10-04-2018	23	304.6	321.3		0	433.143			
2018	10-05-2018	0	333.7	311.1		0				
2018	10-05-2018	1	257.1	199.5		0				
2018	10-05-2018	2	159.2	114.8		0				
2018	10-05-2018	3	190.3	189.2		0				
2018	10-05-2018	4	394.1	290.3		0				
2018	10-05-2018	5	597.6	324.4		0				
2018	10-05-2018	6	616.4	475.3		0				
2018	10-05-2018	7	600.9	533.8		0				
2018	10-05-2018	8	675.3	700.1		0				
2018	10-05-2018	9	895.7	942.1		0				
2018	10-05-2018	10	1222	1125.3		0				
2018	10-05-2018	11	1383.3	1415.9		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-05-2018	12	1656.4	1713.6		0				
2018	10-05-2018	13	2427.7	2117.7		0				
2018	10-05-2018	14	2506.7	2253.6		0				
2018	10-05-2018	15	2646.8	2124.7						
2018	10-05-2018	16	2166	1356.3						
2018	10-05-2018	17	2097.9	913.1						
2018	10-05-2018	18	2709.3	1171.6						
2018	10-05-2018	19	2778	1458.1						
2018	10-05-2018	20	2102.2	1516.5						
2018	10-05-2018	21	2062.2	1408.8						
2018	10-05-2018	22	1268.3	970.8						
2018	10-05-2018	23	704.8	650.6						
2018	10-06-2018	0	448.5	339.9						
2018	10-06-2018	1	316	193.1						
2018	10-06-2018	2	308.1	161.5						
2018	10-06-2018	3	290.2	173.7						
2018	10-06-2018	4	329.7	232						
2018	10-06-2018	5	432.3	343.3						
2018	10-06-2018	6	498.8	415.4						
2018	10-06-2018	7	637.9	465.2						
2018	10-06-2018	8	969.7	561.2						
2018	10-06-2018	9	1333.4	866.8						
2018	10-06-2018	10	562.1	502.8						
2018	10-06-2018	11	1116.7	827						
2018	10-06-2018	12	1489.6	1223.8						
2018	10-06-2018	13	1811	1565						
2018	10-06-2018	14	1396.5	1125.8						
2018	10-06-2018	15	1383.4	1250.6						
2018	10-06-2018	16	1313.8	1237.4						
2018	10-06-2018	17	1100.3	1011.2						
2018	10-06-2018	18	1150.4	927.7						
2018	10-06-2018	19	1022.3	638.8						
2018	10-06-2018	20	771.3	462.6						
2018	10-06-2018	21	768.2	515						
2018	10-06-2018	22	630.3	443.4						
2018	10-06-2018	23	461.2	285.2						
2018	10-07-2018	0	390.2	300.3						
2018	10-07-2018	1	382.2	288.9						
2018	10-07-2018	2	368.7	294.1						
2018	10-07-2018	3	367	293.9						
2018	10-07-2018	4	374.2	299.7						
2018	10-07-2018	5	373.2	286.2						
2018	10-07-2018	6	360	274.2						
2018	10-07-2018	7	372.8	289.9						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-07-2018	8	410.4	314.9						
2018	10-07-2018	9	657.6	445.1						
2018	10-07-2018	10	764.7	596.3						
2018	10-07-2018	11	1309.8	1348.9		0				
2018	10-07-2018	12	1549	1732.3		0				
2018	10-07-2018	13	2093.6	2067.7		0				
2018	10-07-2018	14	2349.5	2531.6		0				
2018	10-07-2018	15	2406.8	2542.4		0				
2018	10-07-2018	16	2338.1	2086.6		0				
2018	10-07-2018	17	1805.5	1698.4		0				
2018	10-07-2018	18	2337.4	1694.7		0				
2018	10-07-2018	19	2308.2	1687.3		0	0			
2018	10-07-2018	20	2325	1172.5		0	0			
2018	10-07-2018	21	2207	980.9		0	0			
2018	10-07-2018	22	1549.4	817.2		0	0			
2018	10-07-2018	23	1069.4	689.3		0	0			
2018	10-08-2018	0	593	460.4		0	139.2			
2018	10-08-2018	1	368	314		0	270.3			
2018	10-08-2018	2	348.3	195.2		0	367.9			
2018	10-08-2018	3	346.4	296.8		0	495.7			
2018	10-08-2018	4	669.7	428.8		0	724.3			
2018	10-08-2018	5	1689.7	762.2		0	1282			
2018	10-08-2018	6	1301.1	1223.4		0	1708.2			
2018	10-08-2018	7	749.3	563.8			1851.7			
2018	10-08-2018	8	649.7	565.2			1867.2			
2018	10-08-2018	9	721.8	561.6			2144.6			
2018	10-08-2018	10	1113.4	828.7			2503.7			
2018	10-08-2018	11	1117.7	1142.5			2767.2			
2018	10-08-2018	12	1070.2	1088.2			3105.5			
2018	10-08-2018	13	1194.8	1239.7			3255.4			
2018	10-08-2018	14	1148	1335.6			3440.9			
2018	10-08-2018	15	1173.5	1332.5			3426.2			
2018	10-08-2018	16	1108.8	1370.6			3421.3			
2018	10-08-2018	17	1132.1	165.58			3420.7			
2018	10-08-2018	18	1176.7	0			3418.6			
2018	10-08-2018	19	1203.1	0			3427.8			
2018	10-08-2018	20	1134.3	0			3323.1			
2018	10-08-2018	21	1132.2	0			3247.6			
2018	10-08-2018	22	1083	0			3043.1			
2018	10-08-2018	23	826.7	0			2807.7			
2018	10-09-2018	0	597.9	10.4			2396.7			
2018	10-09-2018	1	446.4	16.1			2249.8			
2018	10-09-2018	2	363	17			1992.8			
2018	10-09-2018	3	303.4	24.6			1938.9			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-09-2018	4	394.9	34.2			1928.3			
2018	10-09-2018	5	629	83.3			2081.8			
2018	10-09-2018	6	857.8	81.7			2152.4			
2018	10-09-2018	7	828.2	7.2			2153.8			
2018	10-09-2018	8	1107.9	89.1			2661.2			
2018	10-09-2018	9	1169.9	23.2			2753			
2018	10-09-2018	10	939.3	6.1			2607.4			
2018	10-09-2018	11	1120.1	11.7			2721.2			
2018	10-09-2018	12	1200.3	23.3			3064.5			
2018	10-09-2018	13	1355	42.2			3299.6			
2018	10-09-2018	14	1325.2	65.7			3315			
2018	10-09-2018	15	1296.3	158.4			3330.1			
2018	10-09-2018	16	1195.8	256.7			3295.2			
2018	10-09-2018	17	1206.1	278.9			3119			
2018	10-09-2018	18	1221.8	271.4			3171.8			
2018	10-09-2018	19	1228.1	217.6			3254.1			
2018	10-09-2018	20	645.8	200.3			3271.4			
2018	10-09-2018	21	476.4	194.6			3014.8			
2018	10-09-2018	22	428	187.9			2768			
2018	10-09-2018	23	294	171			2379.8			
2018	10-10-2018	0	226.7	140.4			2169.8			
2018	10-10-2018	1	205.7	135			2043.5			
2018	10-10-2018	2	203.9	131.8			1921.8			
2018	10-10-2018	3	199	129.1			1904.9			
2018	10-10-2018	4	227.4	133.4			1920.1			
2018	10-10-2018	5	354.3	277			2100.3			
2018	10-10-2018	6	568.1	635.2			2102.5			
2018	10-10-2018	7	758.1	1173.8			2026.2			
2018	10-10-2018	8	856.5	1101.9			2100			
2018	10-10-2018	9	823.3	946.7			2132.6			
2018	10-10-2018	10	735.4	1025.4			2435.1			
2018	10-10-2018	11	691.6	1147.7			2830.6			
2018	10-10-2018	12	580.9	1254.1			3244.8			
2018	10-10-2018	13	1473.9	1086.7			3428.3			
2018	10-10-2018	14	263.5	1088.5			3476.8			
2018	10-10-2018	15		1131.8			3436.1			
2018	10-10-2018	16		666.2			3368.2			
2018	10-10-2018	17		570.5			3275.5			
2018	10-10-2018	18		629.8			3369.9			
2018	10-10-2018	19		673			3406.4			
2018	10-10-2018	20		649.1			3484.4			
2018	10-10-2018	21		507.1			3387.7			
2018	10-10-2018	22		449.2			2988.2			
2018	10-10-2018	23		463.9			2737.6			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-11-2018	0		290.6			2431.8			
2018	10-11-2018	1		179.5			2130.9			
2018	10-11-2018	2		151.9			1930.9			
2018	10-11-2018	3		157			2050.5			
2018	10-11-2018	4		622.7			2790.5			
2018	10-11-2018	5		670.3			3383.1			
2018	10-11-2018	6		1060.1			3418.1			
2018	10-11-2018	7		1077.2			3431.9			
2018	10-11-2018	8		1096.8			3439.9			
2018	10-11-2018	9		1093.8			3363			
2018	10-11-2018	10		837.6			3149.8			
2018	10-11-2018	11		640.3			2916.9			
2018	10-11-2018	12		682.7			2905.9			
2018	10-11-2018	13		856.6			2809.7			
2018	10-11-2018	14		576.5			2508.4			
2018	10-11-2018	15		755.3			2444.9			
2018	10-11-2018	16		668.4			2242.6			
2018	10-11-2018	17		773.9		0	2291.3			
2018	10-11-2018	18		860.8		0	2572.8			
2018	10-11-2018	19		859.4		0	2879.3			
2018	10-11-2018	20		642.3		0	2698			
2018	10-11-2018	21		411.7		0	2394.3			
2018	10-11-2018	22		391.4		0	1926.4			
2018	10-11-2018	23		125.25		0	307.004			
2018	10-12-2018	0				0				
2018	10-12-2018	1				0				
2018	10-12-2018	2				0				
2018	10-12-2018	3				0				
2018	10-12-2018	4				0				
2018	10-12-2018	5				0				
2018	10-12-2018	6				0				
2018	10-12-2018	7				0				
2018	10-12-2018	8				0				
2018	10-12-2018	9				0				
2018	10-12-2018	10				0				
2018	10-12-2018	11				0				
2018	10-12-2018	12				0				
2018	10-12-2018	13								
2018	10-12-2018	14								
2018	10-12-2018	15								
2018	10-12-2018	16								
2018	10-12-2018	17								
2018	10-12-2018	18								
2018	10-12-2018	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-12-2018	20								
2018	10-12-2018	21								
2018	10-12-2018	22								
2018	10-12-2018	23								
2018	10-13-2018	0								
2018	10-13-2018	1								
2018	10-13-2018	2								
2018	10-13-2018	3								
2018	10-13-2018	4								
2018	10-13-2018	5								
2018	10-13-2018	6								
2018	10-13-2018	7								
2018	10-13-2018	8								
2018	10-13-2018	9								
2018	10-13-2018	10								
2018	10-13-2018	11								
2018	10-13-2018	12								
2018	10-13-2018	13								
2018	10-13-2018	14								
2018	10-13-2018	15								
2018	10-13-2018	16								
2018	10-13-2018	17								
2018	10-13-2018	18								
2018	10-13-2018	19								
2018	10-13-2018	20								
2018	10-13-2018	21								
2018	10-13-2018	22								
2018	10-13-2018	23								
2018	10-14-2018	0								
2018	10-14-2018	1								
2018	10-14-2018	2								
2018	10-14-2018	3								
2018	10-14-2018	4								
2018	10-14-2018	5								
2018	10-14-2018	6								
2018	10-14-2018	7								
2018	10-14-2018	8								
2018	10-14-2018	9				0				
2018	10-14-2018	10				0				
2018	10-14-2018	11				0				
2018	10-14-2018	12				0				
2018	10-14-2018	13				0				
2018	10-14-2018	14				0				
2018	10-14-2018	15				0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-14-2018	16				0				
2018	10-14-2018	17				0				
2018	10-14-2018	18				0				
2018	10-14-2018	19				0				
2018	10-14-2018	20				0				
2018	10-14-2018	21				0				
2018	10-14-2018	22				0				
2018	10-14-2018	23				0				
2018	10-15-2018	0				0				
2018	10-15-2018	1				0				
2018	10-15-2018	2				0				
2018	10-15-2018	3				0				
2018	10-15-2018	4				0				
2018	10-15-2018	5				0				
2018	10-15-2018	6				0				
2018	10-15-2018	7				0.3				
2018	10-15-2018	8				0				
2018	10-15-2018	9				0				
2018	10-15-2018	10				0				
2018	10-15-2018	11				0				
2018	10-15-2018	12				0				
2018	10-15-2018	13				0				
2018	10-15-2018	14				0				
2018	10-15-2018	15				0				
2018	10-15-2018	16				0				
2018	10-15-2018	17				0				
2018	10-15-2018	18				0				
2018	10-15-2018	19				0				
2018	10-15-2018	20				0				
2018	10-15-2018	21				0				
2018	10-15-2018	22				0				
2018	10-15-2018	23				0				
2018	10-16-2018	0				0				
2018	10-16-2018	1				0				
2018	10-16-2018	2				0				
2018	10-16-2018	3				0				
2018	10-16-2018	4				0				
2018	10-16-2018	5				0				
2018	10-16-2018	6				0				
2018	10-16-2018	7				0.1				
2018	10-16-2018	8				0				
2018	10-16-2018	9								
2018	10-16-2018	10								
2018	10-16-2018	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-16-2018	12								
2018	10-16-2018	13								
2018	10-16-2018	14								
2018	10-16-2018	15								
2018	10-16-2018	16								
2018	10-16-2018	17								
2018	10-16-2018	18								
2018	10-16-2018	19								
2018	10-16-2018	20								
2018	10-16-2018	21								
2018	10-16-2018	22								
2018	10-16-2018	23								
2018	10-17-2018	0								
2018	10-17-2018	1								
2018	10-17-2018	2								
2018	10-17-2018	3								
2018	10-17-2018	4								
2018	10-17-2018	5								
2018	10-17-2018	6								
2018	10-17-2018	7								
2018	10-17-2018	8								
2018	10-17-2018	9								
2018	10-17-2018	10								
2018	10-17-2018	11								
2018	10-17-2018	12								
2018	10-17-2018	13								
2018	10-17-2018	14								
2018	10-17-2018	15								
2018	10-17-2018	16								
2018	10-17-2018	17								
2018	10-17-2018	18								
2018	10-17-2018	19								
2018	10-17-2018	20								
2018	10-17-2018	21								
2018	10-17-2018	22								
2018	10-17-2018	23								
2018	10-18-2018	0								
2018	10-18-2018	1								
2018	10-18-2018	2								
2018	10-18-2018	3								
2018	10-18-2018	4								
2018	10-18-2018	5								
2018	10-18-2018	6								
2018	10-18-2018	7								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-18-2018	8								
2018	10-18-2018	9								
2018	10-18-2018	10								
2018	10-18-2018	11								
2018	10-18-2018	12								
2018	10-18-2018	13								
2018	10-18-2018	14								
2018	10-18-2018	15								
2018	10-18-2018	16								
2018	10-18-2018	17								
2018	10-18-2018	18								
2018	10-18-2018	19								
2018	10-18-2018	20								
2018	10-18-2018	21								
2018	10-18-2018	22								
2018	10-18-2018	23								
2018	10-19-2018	0								
2018	10-19-2018	1								
2018	10-19-2018	2								
2018	10-19-2018	3								
2018	10-19-2018	4								
2018	10-19-2018	5								
2018	10-19-2018	6								
2018	10-19-2018	7								
2018	10-19-2018	8								
2018	10-19-2018	9								
2018	10-19-2018	10								
2018	10-19-2018	11								
2018	10-19-2018	12								
2018	10-19-2018	13								
2018	10-19-2018	14								
2018	10-19-2018	15								
2018	10-19-2018	16								
2018	10-19-2018	17								
2018	10-19-2018	18								
2018	10-19-2018	19								
2018	10-19-2018	20								
2018	10-19-2018	21								
2018	10-19-2018	22								
2018	10-19-2018	23								
2018	10-20-2018	0								
2018	10-20-2018	1								
2018	10-20-2018	2								
2018	10-20-2018	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-20-2018	4								
2018	10-20-2018	5								
2018	10-20-2018	6								
2018	10-20-2018	7								
2018	10-20-2018	8								
2018	10-20-2018	9								
2018	10-20-2018	10								
2018	10-20-2018	11								
2018	10-20-2018	12								
2018	10-20-2018	13								
2018	10-20-2018	14								
2018	10-20-2018	15								
2018	10-20-2018	16								
2018	10-20-2018	17								
2018	10-20-2018	18								
2018	10-20-2018	19								
2018	10-20-2018	20								
2018	10-20-2018	21								
2018	10-20-2018	22								
2018	10-20-2018	23								
2018	10-21-2018	0								
2018	10-21-2018	1								
2018	10-21-2018	2								
2018	10-21-2018	3								
2018	10-21-2018	4								
2018	10-21-2018	5								
2018	10-21-2018	6								
2018	10-21-2018	7								
2018	10-21-2018	8								
2018	10-21-2018	9								
2018	10-21-2018	10								
2018	10-21-2018	11								
2018	10-21-2018	12								
2018	10-21-2018	13								
2018	10-21-2018	14								
2018	10-21-2018	15								
2018	10-21-2018	16								
2018	10-21-2018	17								
2018	10-21-2018	18								
2018	10-21-2018	19								
2018	10-21-2018	20								
2018	10-21-2018	21								
2018	10-21-2018	22								
2018	10-21-2018	23								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-22-2018	0								
2018	10-22-2018	1								
2018	10-22-2018	2								
2018	10-22-2018	3								
2018	10-22-2018	4								
2018	10-22-2018	5								
2018	10-22-2018	6								
2018	10-22-2018	7								
2018	10-22-2018	8								
2018	10-22-2018	9								
2018	10-22-2018	10								
2018	10-22-2018	11								
2018	10-22-2018	12								
2018	10-22-2018	13								
2018	10-22-2018	14								
2018	10-22-2018	15								
2018	10-22-2018	16								
2018	10-22-2018	17								
2018	10-22-2018	18								
2018	10-22-2018	19								
2018	10-22-2018	20								
2018	10-22-2018	21								
2018	10-22-2018	22								
2018	10-22-2018	23								
2018	10-23-2018	0								
2018	10-23-2018	1								
2018	10-23-2018	2								
2018	10-23-2018	3								
2018	10-23-2018	4								
2018	10-23-2018	5								
2018	10-23-2018	6								
2018	10-23-2018	7								
2018	10-23-2018	8								
2018	10-23-2018	9								
2018	10-23-2018	10								
2018	10-23-2018	11								
2018	10-23-2018	12								
2018	10-23-2018	13								
2018	10-23-2018	14								
2018	10-23-2018	15								
2018	10-23-2018	16								
2018	10-23-2018	17								
2018	10-23-2018	18								
2018	10-23-2018	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-23-2018	20								
2018	10-23-2018	21								
2018	10-23-2018	22								
2018	10-23-2018	23								
2018	10-24-2018	0								
2018	10-24-2018	1								
2018	10-24-2018	2								
2018	10-24-2018	3								
2018	10-24-2018	4								
2018	10-24-2018	5								
2018	10-24-2018	6								
2018	10-24-2018	7								
2018	10-24-2018	8								
2018	10-24-2018	9								
2018	10-24-2018	10								
2018	10-24-2018	11								
2018	10-24-2018	12								
2018	10-24-2018	13								
2018	10-24-2018	14								
2018	10-24-2018	15								
2018	10-24-2018	16			0.015					
2018	10-24-2018	17			0.043					
2018	10-24-2018	18			0.042					
2018	10-24-2018	19			0.042					
2018	10-24-2018	20			0.046					
2018	10-24-2018	21			0.047					
2018	10-24-2018	22			0.048					
2018	10-24-2018	23			0.051					
2018	10-25-2018	0			0.054					
2018	10-25-2018	1			0.054					
2018	10-25-2018	2			0.055					
2018	10-25-2018	3			0.062					
2018	10-25-2018	4			0.058					
2018	10-25-2018	5			0.058					
2018	10-25-2018	6			0.064					
2018	10-25-2018	7			0.064					
2018	10-25-2018	8			0.064					
2018	10-25-2018	9			0.064					
2018	10-25-2018	10			0.066					
2018	10-25-2018	11			0.072					
2018	10-25-2018	12			0.073					
2018	10-25-2018	13			0.073					
2018	10-25-2018	14			0.073					
2018	10-25-2018	15			0.073					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-25-2018	16			0.073					
2018	10-25-2018	17			0.073					
2018	10-25-2018	18			0.075					
2018	10-25-2018	19			0.076					
2018	10-25-2018	20			0.076					
2018	10-25-2018	21			0.076					
2018	10-25-2018	22			0.076					
2018	10-25-2018	23			0.076					
2018	10-26-2018	0			0.078					
2018	10-26-2018	1			0.078					
2018	10-26-2018	2			0.078					
2018	10-26-2018	3			0.078					
2018	10-26-2018	4			0.078					
2018	10-26-2018	5			0.083					
2018	10-26-2018	6			0.089					
2018	10-26-2018	7			0.089					
2018	10-26-2018	8			0.089					
2018	10-26-2018	9			0.089					
2018	10-26-2018	10			0.073					
2018	10-26-2018	11			0.088					
2018	10-26-2018	12			0.097					
2018	10-26-2018	13			0.074					
2018	10-26-2018	14			0.068					
2018	10-26-2018	15			0.074					
2018	10-26-2018	16			0.077					
2018	10-26-2018	17			0.079					
2018	10-26-2018	18			0.078					
2018	10-26-2018	19			0.078					
2018	10-26-2018	20			0.07					
2018	10-26-2018	21			0.078					
2018	10-26-2018	22			0.076					
2018	10-26-2018	23			0.076					
2018	10-27-2018	0			0.076					
2018	10-27-2018	1			0.077					
2018	10-27-2018	2			0.079					
2018	10-27-2018	3			0.078					
2018	10-27-2018	4			0.078					
2018	10-27-2018	5			0.078					
2018	10-27-2018	6			0.078					
2018	10-27-2018	7			0.077					
2018	10-27-2018	8			0.075					
2018	10-27-2018	9			0.075					
2018	10-27-2018	10			0.075					
2018	10-27-2018	11			0.075					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-27-2018	12			0.075					
2018	10-27-2018	13			0.075					
2018	10-27-2018	14			0.075					
2018	10-27-2018	15			0.075					
2018	10-27-2018	16			0.075					
2018	10-27-2018	17			0.075					
2018	10-27-2018	18			0.076					
2018	10-27-2018	19			0.077					
2018	10-27-2018	20			0.076					
2018	10-27-2018	21			0.071					
2018	10-27-2018	22			0.073					
2018	10-27-2018	23			0.073					
2018	10-28-2018	0			0.073					
2018	10-28-2018	1			0.073					
2018	10-28-2018	2			0.073					
2018	10-28-2018	3			0.072					
2018	10-28-2018	4			0.072					
2018	10-28-2018	5			0.073					
2018	10-28-2018	6			0.043					
2018	10-28-2018	7								
2018	10-28-2018	8								
2018	10-28-2018	9								
2018	10-28-2018	10								
2018	10-28-2018	11								
2018	10-28-2018	12								
2018	10-28-2018	13								
2018	10-28-2018	14								
2018	10-28-2018	15								
2018	10-28-2018	16								
2018	10-28-2018	17								
2018	10-28-2018	18								
2018	10-28-2018	19								
2018	10-28-2018	20								
2018	10-28-2018	21								
2018	10-28-2018	22								
2018	10-28-2018	23								
2018	10-29-2018	0								
2018	10-29-2018	1								
2018	10-29-2018	2								
2018	10-29-2018	3								
2018	10-29-2018	4								
2018	10-29-2018	5								
2018	10-29-2018	6								
2018	10-29-2018	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-29-2018	8								
2018	10-29-2018	9								
2018	10-29-2018	10								
2018	10-29-2018	11								
2018	10-29-2018	12								
2018	10-29-2018	13								
2018	10-29-2018	14								
2018	10-29-2018	15								
2018	10-29-2018	16								
2018	10-29-2018	17								
2018	10-29-2018	18								
2018	10-29-2018	19								
2018	10-29-2018	20								
2018	10-29-2018	21								
2018	10-29-2018	22								
2018	10-29-2018	23								
2018	10-30-2018	0								
2018	10-30-2018	1								
2018	10-30-2018	2								
2018	10-30-2018	3								
2018	10-30-2018	4								
2018	10-30-2018	5								
2018	10-30-2018	6								
2018	10-30-2018	7								
2018	10-30-2018	8								
2018	10-30-2018	9								
2018	10-30-2018	10								
2018	10-30-2018	11								
2018	10-30-2018	12								
2018	10-30-2018	13								
2018	10-30-2018	14								
2018	10-30-2018	15								
2018	10-30-2018	16								
2018	10-30-2018	17								
2018	10-30-2018	18								
2018	10-30-2018	19								
2018	10-30-2018	20								
2018	10-30-2018	21								
2018	10-30-2018	22								
2018	10-30-2018	23								
2018	10-31-2018	0								
2018	10-31-2018	1								
2018	10-31-2018	2								
2018	10-31-2018	3								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	10-31-2018	4								
2018	10-31-2018	5								
2018	10-31-2018	6								
2018	10-31-2018	7								
2018	10-31-2018	8								
2018	10-31-2018	9								
2018	10-31-2018	10								
2018	10-31-2018	11								
2018	10-31-2018	12								
2018	10-31-2018	13								
2018	10-31-2018	14								
2018	10-31-2018	15								
2018	10-31-2018	16								
2018	10-31-2018	17								
2018	10-31-2018	18								
2018	10-31-2018	19								
2018	10-31-2018	20								
2018	10-31-2018	21								
2018	10-31-2018	22								
2018	10-31-2018	23								
2018	11-01-2018	0								
2018	11-01-2018	1								
2018	11-01-2018	2								
2018	11-01-2018	3								
2018	11-01-2018	4								
2018	11-01-2018	5								
2018	11-01-2018	6								
2018	11-01-2018	7								
2018	11-01-2018	8								
2018	11-01-2018	9								
2018	11-01-2018	10								
2018	11-01-2018	11								
2018	11-01-2018	12								
2018	11-01-2018	13								
2018	11-01-2018	14								
2018	11-01-2018	15								
2018	11-01-2018	16								
2018	11-01-2018	17								
2018	11-01-2018	18								
2018	11-01-2018	19								
2018	11-01-2018	20								
2018	11-01-2018	21								
2018	11-01-2018	22								
2018	11-01-2018	23								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-02-2018	0								
2018	11-02-2018	1								
2018	11-02-2018	2								
2018	11-02-2018	3								
2018	11-02-2018	4								
2018	11-02-2018	5								
2018	11-02-2018	6								
2018	11-02-2018	7								
2018	11-02-2018	8								
2018	11-02-2018	9								
2018	11-02-2018	10								
2018	11-02-2018	11								
2018	11-02-2018	12								
2018	11-02-2018	13								
2018	11-02-2018	14								
2018	11-02-2018	15								
2018	11-02-2018	16								
2018	11-02-2018	17								
2018	11-02-2018	18								
2018	11-02-2018	19								
2018	11-02-2018	20								
2018	11-02-2018	21								
2018	11-02-2018	22								
2018	11-02-2018	23								
2018	11-03-2018	0								
2018	11-03-2018	1								
2018	11-03-2018	2								
2018	11-03-2018	3								
2018	11-03-2018	4								
2018	11-03-2018	5								
2018	11-03-2018	6								
2018	11-03-2018	7								
2018	11-03-2018	8								
2018	11-03-2018	9								
2018	11-03-2018	10								
2018	11-03-2018	11								
2018	11-03-2018	12								
2018	11-03-2018	13								
2018	11-03-2018	14								
2018	11-03-2018	15								
2018	11-03-2018	16								
2018	11-03-2018	17								
2018	11-03-2018	18								
2018	11-03-2018	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-03-2018	20								
2018	11-03-2018	21								
2018	11-03-2018	22								
2018	11-03-2018	23								
2018	11-04-2018	0								
2018	11-04-2018	1								
2018	11-04-2018	2								
2018	11-04-2018	3								
2018	11-04-2018	4								
2018	11-04-2018	5								
2018	11-04-2018	6								
2018	11-04-2018	7								
2018	11-04-2018	8								
2018	11-04-2018	9								
2018	11-04-2018	10								
2018	11-04-2018	11								
2018	11-04-2018	12								
2018	11-04-2018	13								
2018	11-04-2018	14								
2018	11-04-2018	15								
2018	11-04-2018	16								
2018	11-04-2018	17								
2018	11-04-2018	18								
2018	11-04-2018	19								
2018	11-04-2018	20								
2018	11-04-2018	21								
2018	11-04-2018	22								
2018	11-04-2018	23								
2018	11-05-2018	0								
2018	11-05-2018	1								
2018	11-05-2018	2								
2018	11-05-2018	3								
2018	11-05-2018	4								
2018	11-05-2018	5								
2018	11-05-2018	6								
2018	11-05-2018	7								
2018	11-05-2018	8								
2018	11-05-2018	9								
2018	11-05-2018	10								
2018	11-05-2018	11								
2018	11-05-2018	12								
2018	11-05-2018	13								
2018	11-05-2018	14								
2018	11-05-2018	15								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-05-2018	16								
2018	11-05-2018	17								
2018	11-05-2018	18								
2018	11-05-2018	19								
2018	11-05-2018	20								
2018	11-05-2018	21								
2018	11-05-2018	22								
2018	11-05-2018	23								
2018	11-06-2018	0								
2018	11-06-2018	1								
2018	11-06-2018	2								
2018	11-06-2018	3								
2018	11-06-2018	4								
2018	11-06-2018	5								
2018	11-06-2018	6								
2018	11-06-2018	7								
2018	11-06-2018	8								
2018	11-06-2018	9								
2018	11-06-2018	10								
2018	11-06-2018	11								
2018	11-06-2018	12								
2018	11-06-2018	13								
2018	11-06-2018	14								
2018	11-06-2018	15								
2018	11-06-2018	16								
2018	11-06-2018	17								
2018	11-06-2018	18								
2018	11-06-2018	19								
2018	11-06-2018	20								
2018	11-06-2018	21								
2018	11-06-2018	22								
2018	11-06-2018	23								
2018	11-07-2018	0								
2018	11-07-2018	1								
2018	11-07-2018	2								
2018	11-07-2018	3								
2018	11-07-2018	4								
2018	11-07-2018	5								
2018	11-07-2018	6								
2018	11-07-2018	7								
2018	11-07-2018	8								
2018	11-07-2018	9	0							
2018	11-07-2018	10	0							
2018	11-07-2018	11	0							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-07-2018	12	0							
2018	11-07-2018	13	0							
2018	11-07-2018	14	0							
2018	11-07-2018	15	0							
2018	11-07-2018	16	0							
2018	11-07-2018	17	0							
2018	11-07-2018	18	0							
2018	11-07-2018	19	0							
2018	11-07-2018	20	0							
2018	11-07-2018	21	0							
2018	11-07-2018	22	0							
2018	11-07-2018	23	0							
2018	11-08-2018	0	0							
2018	11-08-2018	1	0							
2018	11-08-2018	2	0							
2018	11-08-2018	3	0							
2018	11-08-2018	4	0							
2018	11-08-2018	5	18							
2018	11-08-2018	6	17.3							
2018	11-08-2018	7	9.8							
2018	11-08-2018	8	57.5							
2018	11-08-2018	9	73.6							
2018	11-08-2018	10	96.8							
2018	11-08-2018	11	81.4							
2018	11-08-2018	12	144.8							
2018	11-08-2018	13	315.9							
2018	11-08-2018	14	611.2							
2018	11-08-2018	15	551.4							
2018	11-08-2018	16	532.4							
2018	11-08-2018	17	670.1							
2018	11-08-2018	18	616							
2018	11-08-2018	19	643.5							
2018	11-08-2018	20	651.5							
2018	11-08-2018	21	1210.9							
2018	11-08-2018	22	689.8							
2018	11-08-2018	23	684.2							
2018	11-09-2018	0	383.1							
2018	11-09-2018	1	279.9							
2018	11-09-2018	2	221.6							
2018	11-09-2018	3	227.8							
2018	11-09-2018	4	247.8							
2018	11-09-2018	5	279.8							
2018	11-09-2018	6	516.5							
2018	11-09-2018	7	795.8							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-09-2018	8	892.7							
2018	11-09-2018	9	748.2							
2018	11-09-2018	10	564			0				
2018	11-09-2018	11	457.5			0				
2018	11-09-2018	12	443.4			0				
2018	11-09-2018	13	525.4			0				
2018	11-09-2018	14	542			0				
2018	11-09-2018	15	497.8			0				
2018	11-09-2018	16	441.6			0				
2018	11-09-2018	17	441.4			0				
2018	11-09-2018	18	449.3			0				
2018	11-09-2018	19	454.4			0				
2018	11-09-2018	20	437.1			0				
2018	11-09-2018	21	394.7			0				
2018	11-09-2018	22	360.2			0				
2018	11-09-2018	23	291.9			0				
2018	11-10-2018	0	248.8			0				
2018	11-10-2018	1	238.8			0				
2018	11-10-2018	2	248.2			0				
2018	11-10-2018	3	253.8			0				
2018	11-10-2018	4	247.6			0				
2018	11-10-2018	5	274.2			0				
2018	11-10-2018	6	300.6			0				
2018	11-10-2018	7	301.7			0				
2018	11-10-2018	8	378.5			0				
2018	11-10-2018	9	698.4			0				
2018	11-10-2018	10	975			0				
2018	11-10-2018	11	1258.1			0				
2018	11-10-2018	12	1050.9			0				
2018	11-10-2018	13	931.2			0				
2018	11-10-2018	14	876.3			0				
2018	11-10-2018	15	837.9			0				
2018	11-10-2018	16	841.2			0				
2018	11-10-2018	17	1231.4			0				
2018	11-10-2018	18	1779.7			0				
2018	11-10-2018	19	1846.1			0				
2018	11-10-2018	20	1928.8			0				
2018	11-10-2018	21	1494.7			0				
2018	11-10-2018	22	1572.6			0				
2018	11-10-2018	23	1752.1			0				
2018	11-11-2018	0	1696.4			0				
2018	11-11-2018	1	1856.5			0				
2018	11-11-2018	2	1886.9			0				
2018	11-11-2018	3	2009.7			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-11-2018	4	1560.5			0				
2018	11-11-2018	5	1663			0				
2018	11-11-2018	6	1335.9			0				
2018	11-11-2018	7	1736.4			0				
2018	11-11-2018	8	1582.3			0				
2018	11-11-2018	9	2503.4			0				
2018	11-11-2018	10	2488.8			0				
2018	11-11-2018	11	2559.9			0				
2018	11-11-2018	12	1404			0				
2018	11-11-2018	13	2517.3			0				
2018	11-11-2018	14	2612.4			0				
2018	11-11-2018	15	2670.9			0				
2018	11-11-2018	16	1969.2			0				
2018	11-11-2018	17	2883.3			0				
2018	11-11-2018	18	1781.2			0				
2018	11-11-2018	19	1205.2			0				
2018	11-11-2018	20	1155.1			0				
2018	11-11-2018	21	1240.7			0				
2018	11-11-2018	22	1218.2			0				
2018	11-11-2018	23	1252.2			0				
2018	11-12-2018	0	1224.5			0				
2018	11-12-2018	1	1267.6			0				
2018	11-12-2018	2	1251.5			0				
2018	11-12-2018	3	1289			0				
2018	11-12-2018	4	1244.1			0				
2018	11-12-2018	5	1276.5			0				
2018	11-12-2018	6	1286.7			0				
2018	11-12-2018	7	1338.7			0				
2018	11-12-2018	8	1273.5			0				
2018	11-12-2018	9	1353			0				
2018	11-12-2018	10	1386.8							
2018	11-12-2018	11	1333							
2018	11-12-2018	12	1259.1							
2018	11-12-2018	13	1331.2							
2018	11-12-2018	14	1331.5							
2018	11-12-2018	15	1306.2							
2018	11-12-2018	16	1340.1							
2018	11-12-2018	17	1526.9							
2018	11-12-2018	18	1489.9							
2018	11-12-2018	19	1415.4							
2018	11-12-2018	20	1352.8							
2018	11-12-2018	21	1408.9							
2018	11-12-2018	22	1439.2							
2018	11-12-2018	23	1434.6							

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-13-2018	0	1390							
2018	11-13-2018	1	1452.2							
2018	11-13-2018	2	1463.4							
2018	11-13-2018	3	1514.2							
2018	11-13-2018	4	1478.7							
2018	11-13-2018	5	1526.8							
2018	11-13-2018	6	1530.3							
2018	11-13-2018	7	1559.1							
2018	11-13-2018	8	1472.1							
2018	11-13-2018	9	1535.5							
2018	11-13-2018	10	1592.4							
2018	11-13-2018	11	1568.1							
2018	11-13-2018	12	1520.5							
2018	11-13-2018	13	1625.1							
2018	11-13-2018	14	1616.6							
2018	11-13-2018	15	1614.1							
2018	11-13-2018	16	1607.1							
2018	11-13-2018	17	1590.8							
2018	11-13-2018	18	1560.6			0				
2018	11-13-2018	19	1641.9			0				
2018	11-13-2018	20	1569.2			0				
2018	11-13-2018	21	1538.4			0				
2018	11-13-2018	22	1593.3			0				
2018	11-13-2018	23	1598.5			0				
2018	11-14-2018	0	1643.6			0				
2018	11-14-2018	1	1713.3			0				
2018	11-14-2018	2	1676			0				
2018	11-14-2018	3	1621.9			0				
2018	11-14-2018	4	1809.9			0				
2018	11-14-2018	5	1747.5			0				
2018	11-14-2018	6	1750.6			0				
2018	11-14-2018	7	1852.5			0				
2018	11-14-2018	8	1906.2			0				
2018	11-14-2018	9	2410.5			0				
2018	11-14-2018	10	2550.9			0				
2018	11-14-2018	11	2119.2			0				
2018	11-14-2018	12	1934			0				
2018	11-14-2018	13	1747.5			0				
2018	11-14-2018	14	1878.6			0				
2018	11-14-2018	15	1974.9			0				
2018	11-14-2018	16	1818.5			0				
2018	11-14-2018	17	1821.1			0				
2018	11-14-2018	18	1977.9			0				
2018	11-14-2018	19	1931.7			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-14-2018	20	1918.7			0				
2018	11-14-2018	21	2374.2			0				
2018	11-14-2018	22	2024.4			0				
2018	11-14-2018	23	1646			0				
2018	11-15-2018	0	1901.7			0				
2018	11-15-2018	1	2291.6			0				
2018	11-15-2018	2	1919.7			0				
2018	11-15-2018	3	1225.5			0				
2018	11-15-2018	4	1213.7			0				
2018	11-15-2018	5	1213.6			0				
2018	11-15-2018	6	1424.5			0				
2018	11-15-2018	7	2315.9			0				
2018	11-15-2018	8	1972.2			0				
2018	11-15-2018	9	1699.3			0				
2018	11-15-2018	10	1987.6			0				
2018	11-15-2018	11	2346.1			0				
2018	11-15-2018	12	2178.5			0				
2018	11-15-2018	13	1937.8			0				
2018	11-15-2018	14	1996.8			0				
2018	11-15-2018	15	2127.6			0				
2018	11-15-2018	16	2437.2			0				
2018	11-15-2018	17	2411.2			0				
2018	11-15-2018	18	2150.6			0				
2018	11-15-2018	19	2148.3			0				
2018	11-15-2018	20	2452.4			0				
2018	11-15-2018	21	2653.4			0				
2018	11-15-2018	22	2416.7			0				
2018	11-15-2018	23	2457.7			0				
2018	11-16-2018	0	2360.1			0				
2018	11-16-2018	1	2520.8			0				
2018	11-16-2018	2	2582.8			0				
2018	11-16-2018	3	2755			0				
2018	11-16-2018	4	2610.8			0				
2018	11-16-2018	5	2523			0				
2018	11-16-2018	6	2655.2			0				
2018	11-16-2018	7	2620.7			0				
2018	11-16-2018	8	2572.3			0				
2018	11-16-2018	9	2514.6			0				
2018	11-16-2018	10	2432.8			0				
2018	11-16-2018	11	2510.1			0				
2018	11-16-2018	12	2542.1			0				
2018	11-16-2018	13	2555			0				
2018	11-16-2018	14	2549.4			0				
2018	11-16-2018	15	2382.5			0				



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-16-2018	16	2680.6			0				
2018	11-16-2018	17	2429.8			0				
2018	11-16-2018	18	2477.9			0				
2018	11-16-2018	19	2528.3			0				
2018	11-16-2018	20	2481			0				
2018	11-16-2018	21	2484.3			0				
2018	11-16-2018	22	2335.2			0				
2018	11-16-2018	23	2009.3			0				
2018	11-17-2018	0	1277.4			0				
2018	11-17-2018	1	850.2			0				
2018	11-17-2018	2	926.6			0				
2018	11-17-2018	3	1356.5			0				
2018	11-17-2018	4	1163.6			0				
2018	11-17-2018	5	2163.1			0				
2018	11-17-2018	6	2263.5			0				
2018	11-17-2018	7	2143.7			0				
2018	11-17-2018	8	2347.3			0				
2018	11-17-2018	9	2237.5			0				
2018	11-17-2018	10	1772.3			0				
2018	11-17-2018	11	1645.8			0				
2018	11-17-2018	12	946.9			0				
2018	11-17-2018	13	674.9			0				
2018	11-17-2018	14	569.1			0				
2018	11-17-2018	15	521.3			0				
2018	11-17-2018	16	507.7			0				
2018	11-17-2018	17	729.9			0				
2018	11-17-2018	18	969.4			0				
2018	11-17-2018	19	616.2			0				
2018	11-17-2018	20	988.7			0				
2018	11-17-2018	21	1603.4			0				
2018	11-17-2018	22	1511.6			0				
2018	11-17-2018	23	750.8			0				
2018	11-18-2018	0	462.2			0				
2018	11-18-2018	1	464			0				
2018	11-18-2018	2	464.4			0				
2018	11-18-2018	3	632.2			0				
2018	11-18-2018	4	727.9			0				
2018	11-18-2018	5	886.4			0				
2018	11-18-2018	6	969.7			0				
2018	11-18-2018	7	1093.8			0				
2018	11-18-2018	8	1003.4			0				
2018	11-18-2018	9	837.4			0				
2018	11-18-2018	10	701.2			0				
2018	11-18-2018	11	581.1			0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-18-2018	12	427			0				
2018	11-18-2018	13	498.1			0				
2018	11-18-2018	14	482.7			0				
2018	11-18-2018	15	483			0				
2018	11-18-2018	16	500.8			0				
2018	11-18-2018	17	495.5			0				
2018	11-18-2018	18	602.4			0				
2018	11-18-2018	19	648.7			0				
2018	11-18-2018	20	541.9			0				
2018	11-18-2018	21	400			0				
2018	11-18-2018	22	292.9			0				
2018	11-18-2018	23	240.9			0				
2018	11-19-2018	0	248.8			0				
2018	11-19-2018	1	206.7			0				
2018	11-19-2018	2	167.7			0				
2018	11-19-2018	3	143.4			0				
2018	11-19-2018	4	229			0				
2018	11-19-2018	5	445.3			0				
2018	11-19-2018	6	848.4			0				
2018	11-19-2018	7	1346.8			0				
2018	11-19-2018	8	1588.4			0				
2018	11-19-2018	9	1539.6			0				
2018	11-19-2018	10	1131.6			0				
2018	11-19-2018	11	714.7			0				
2018	11-19-2018	12	540.1			0				
2018	11-19-2018	13	410			0				
2018	11-19-2018	14	340.5			0				
2018	11-19-2018	15	272.6			0				
2018	11-19-2018	16	315.6			0				
2018	11-19-2018	17	424.3			0				
2018	11-19-2018	18	518.4			0				
2018	11-19-2018	19	572.9			0				
2018	11-19-2018	20	424.7			0				
2018	11-19-2018	21	280.6			0				
2018	11-19-2018	22	184			0				
2018	11-19-2018	23	130.7			0				
2018	11-20-2018	0	211.3	0		0				
2018	11-20-2018	1	166.9	0		0				
2018	11-20-2018	2	122.4	0		0				
2018	11-20-2018	3	110.1	0		0				
2018	11-20-2018	4	106	0		0				
2018	11-20-2018	5	262	0		0				
2018	11-20-2018	6	398	0		0				
2018	11-20-2018	7	438	0		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-20-2018	8	731	0		0				
2018	11-20-2018	9	1138.4	0		0				
2018	11-20-2018	10	1134.9	0		0				
2018	11-20-2018	11	1258.7	0		0				
2018	11-20-2018	12	846.7	0		0				
2018	11-20-2018	13	657.4	0		0				
2018	11-20-2018	14	577.4	0		0				
2018	11-20-2018	15	524.8	0		0				
2018	11-20-2018	16	632.4	0		0				
2018	11-20-2018	17	1129	0		0				
2018	11-20-2018	18	1254.2	0		0				
2018	11-20-2018	19	1107.3	43.6		0				
2018	11-20-2018	20	1159.6	51		0				
2018	11-20-2018	21	816.7	51.4		0				
2018	11-20-2018	22	550.8	52.9		0				
2018	11-20-2018	23	358.1	80.6		0				
2018	11-21-2018	0	297.3	42.1		0				
2018	11-21-2018	1	221.9	39.1		0				
2018	11-21-2018	2	189.3	65.5		0				
2018	11-21-2018	3	203.2	86.1		0				
2018	11-21-2018	4	218.4	0		0				
2018	11-21-2018	5	231	7.8		0				
2018	11-21-2018	6	363.2	9.7		0				
2018	11-21-2018	7	491.4	11.8		0				
2018	11-21-2018	8	654	10.2		0				
2018	11-21-2018	9	1060.3	13.3		0				
2018	11-21-2018	10	1363.3	33.9		0				
2018	11-21-2018	11	954.7	35.5		0				
2018	11-21-2018	12	688.5	123		0				
2018	11-21-2018	13	403.4	165.9		0				
2018	11-21-2018	14	373.1	220.7		0				
2018	11-21-2018	15	373.9	161		0				
2018	11-21-2018	16	438.9	241.7		0				
2018	11-21-2018	17	667.3	267		0				
2018	11-21-2018	18	1751.6	385.2		0				
2018	11-21-2018	19	1988.7	653		0				
2018	11-21-2018	20	1653.1	685.1		0				
2018	11-21-2018	21	1523.3	672.9		0				
2018	11-21-2018	22	711.3	538.4		0				
2018	11-21-2018	23	441.1	286.1		0				
2018	11-22-2018	0	338.7	185.5		0				
2018	11-22-2018	1	269.4	141		0				
2018	11-22-2018	2	177.2	123.1		0				
2018	11-22-2018	3	259.8	155.5		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-22-2018	4	301.3	159.4		0				
2018	11-22-2018	5	298.8	127.3		0				
2018	11-22-2018	6	348.5	192.7		0				
2018	11-22-2018	7	461.5	255.4		0				
2018	11-22-2018	8	706	219.4		0				
2018	11-22-2018	9	1305.6	291.2		0				
2018	11-22-2018	10	1496.8	349.2		0				
2018	11-22-2018	11	1577	468.7		0				
2018	11-22-2018	12	1236.5	571.5		0				
2018	11-22-2018	13	783.4	513.3		0				
2018	11-22-2018	14	622	412.9		0				
2018	11-22-2018	15	608.6	394.1		0				
2018	11-22-2018	16	585.8	348.9		0				
2018	11-22-2018	17	554	409.5		0				
2018	11-22-2018	18	517.8	426.3		0				
2018	11-22-2018	19	572	519.1		0				
2018	11-22-2018	20	832.3	712.9		0				
2018	11-22-2018	21	1220	995.5		0				
2018	11-22-2018	22	1524.7	1297.5		0				
2018	11-22-2018	23	1283.9	763.1		0				
2018	11-23-2018	0	945.4	584.4		0				
2018	11-23-2018	1	573.9	539.2		0				
2018	11-23-2018	2	538.1	617.8		0				
2018	11-23-2018	3	558.2	716.2		0				
2018	11-23-2018	4	631.6	854.3		0				
2018	11-23-2018	5	914.2	1338.5		0				
2018	11-23-2018	6	1351.7	1286.4		0				
2018	11-23-2018	7	1625.8	1357.4		0				
2018	11-23-2018	8	1287.1	1086.2		0				
2018	11-23-2018	9	1555.8	1025.3		0				
2018	11-23-2018	10	1627.2	864.9		0				
2018	11-23-2018	11	1224.7	997		0				
2018	11-23-2018	12	881.1	728.5		0				
2018	11-23-2018	13	569.7	685.1		0				
2018	11-23-2018	14	483.9	663.9		0				
2018	11-23-2018	15	680.2	861.5		0				
2018	11-23-2018	16	1104	1023.9		0				
2018	11-23-2018	17	1669.3	1242.2		0				
2018	11-23-2018	18	1609.8	1286.5		0				
2018	11-23-2018	19	1383.3	1243.5		0				
2018	11-23-2018	20	1354.9	1335.4		0				
2018	11-23-2018	21	1149.1	1105.8		0				
2018	11-23-2018	22	154.1	628.4		0				
2018	11-23-2018	23	82.35	339.6		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-24-2018	0		292.2		0				
2018	11-24-2018	1		289.9		0				
2018	11-24-2018	2		224		0				
2018	11-24-2018	3		185.7		0				
2018	11-24-2018	4		220.8		0				
2018	11-24-2018	5		207		0				
2018	11-24-2018	6		281.9		0				
2018	11-24-2018	7		365.8		0				
2018	11-24-2018	8		523		0				
2018	11-24-2018	9		746.2		0				
2018	11-24-2018	10		771.2		0				
2018	11-24-2018	11		1161		0				
2018	11-24-2018	12		1197.8		0				
2018	11-24-2018	13		1160.2		0				
2018	11-24-2018	14		1176.6		0				
2018	11-24-2018	15		856.4		0				
2018	11-24-2018	16		757.4		0				
2018	11-24-2018	17		1211.9		0				
2018	11-24-2018	18		1460		0				
2018	11-24-2018	19		1309.9		0				
2018	11-24-2018	20		1004.4		0				
2018	11-24-2018	21		613.3		0				
2018	11-24-2018	22		281.4		0				
2018	11-24-2018	23		183.8		0				
2018	11-25-2018	0		149.8		0				
2018	11-25-2018	1		118.2		0				
2018	11-25-2018	2		76.6		0				
2018	11-25-2018	3		73.2		0				
2018	11-25-2018	4		83.1		0				
2018	11-25-2018	5		125.8		0				
2018	11-25-2018	6		157.1		0				
2018	11-25-2018	7		173.9		0				
2018	11-25-2018	8		120.3		0				
2018	11-25-2018	9		144.9		0				
2018	11-25-2018	10		125.4		0				
2018	11-25-2018	11		137.6		0				
2018	11-25-2018	12		146.5		0				
2018	11-25-2018	13		131.3		0				
2018	11-25-2018	14		123.5		0				
2018	11-25-2018	15		123		0				
2018	11-25-2018	16		124.1		0				
2018	11-25-2018	17		164.1		0				
2018	11-25-2018	18		230.1		0				
2018	11-25-2018	19		321.7		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-25-2018	20		517		0				
2018	11-25-2018	21		468.8		0				
2018	11-25-2018	22		248.2		0				
2018	11-25-2018	23		179.9		0				
2018	11-26-2018	0		127.9		0				
2018	11-26-2018	1		135		0				
2018	11-26-2018	2		132.8		0				
2018	11-26-2018	3		135.9		0				
2018	11-26-2018	4		136.3		0				
2018	11-26-2018	5		101		0				
2018	11-26-2018	6		133.4		0				
2018	11-26-2018	7		182.4		0				
2018	11-26-2018	8		242.3		0				
2018	11-26-2018	9		336		0				
2018	11-26-2018	10		461.9		0				
2018	11-26-2018	11		599.1		0				
2018	11-26-2018	12		626.5		0				
2018	11-26-2018	13		591		0				
2018	11-26-2018	14		647.8		0				
2018	11-26-2018	15		891.4		0				
2018	11-26-2018	16		963.2		0				
2018	11-26-2018	17		1121.7		0				
2018	11-26-2018	18		1369.7		0				
2018	11-26-2018	19		1326.8		0				
2018	11-26-2018	20		1133.7		0				
2018	11-26-2018	21		979.1		0				
2018	11-26-2018	22		832.5		0				
2018	11-26-2018	23		656.7		0				
2018	11-27-2018	0		498.2		0				
2018	11-27-2018	1		262.6		0				
2018	11-27-2018	2		208.5		0				
2018	11-27-2018	3		242.4		0				
2018	11-27-2018	4		455.4		0				
2018	11-27-2018	5		1291.7		0				
2018	11-27-2018	6		1530.5		0				
2018	11-27-2018	7		1628.2		0				
2018	11-27-2018	8		1537.5		0				
2018	11-27-2018	9		1237.8		0				
2018	11-27-2018	10		1250.4		0				
2018	11-27-2018	11		1315.1		0				
2018	11-27-2018	12		1182.2		0				
2018	11-27-2018	13		1410.8		0				
2018	11-27-2018	14		1323.1		0				
2018	11-27-2018	15		1348.7		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-27-2018	16		1282.7		0				
2018	11-27-2018	17		1723.6		0				
2018	11-27-2018	18		1989.7		0				
2018	11-27-2018	19		1643.9		0				
2018	11-27-2018	20		1616.2		0				
2018	11-27-2018	21		1509.4		0				
2018	11-27-2018	22		1278.6		0				
2018	11-27-2018	23		1301.7		0				
2018	11-28-2018	0		1717.8		0				
2018	11-28-2018	1		1734.8		0				
2018	11-28-2018	2		1822.4		0				
2018	11-28-2018	3		1827.2		0				
2018	11-28-2018	4		1635.4		0				
2018	11-28-2018	5		1487		0				
2018	11-28-2018	6		1752.2		0				
2018	11-28-2018	7		1738.9		0				
2018	11-28-2018	8		1770.7		0				
2018	11-28-2018	9		1785.5		0				
2018	11-28-2018	10		1798.2		0				
2018	11-28-2018	11		1800.6		0				
2018	11-28-2018	12		1854.8		0				
2018	11-28-2018	13		1985.5		0				
2018	11-28-2018	14		2141.9		0				
2018	11-28-2018	15		2193.8		0				
2018	11-28-2018	16		2233.4		0				
2018	11-28-2018	17		2165.5		0				
2018	11-28-2018	18		2062.8		0				
2018	11-28-2018	19		1973.8		0				
2018	11-28-2018	20		2028.1		0				
2018	11-28-2018	21		2033.1		0				
2018	11-28-2018	22		1866.1		0				
2018	11-28-2018	23		1848.3		0				
2018	11-29-2018	0		1721.4		0				
2018	11-29-2018	1		1412.9		0				
2018	11-29-2018	2		1373.9		0				
2018	11-29-2018	3		1202.5		0				
2018	11-29-2018	4		1369.8		0				
2018	11-29-2018	5		1409.5		0				
2018	11-29-2018	6		1525.5		0				
2018	11-29-2018	7		1755.5		0				
2018	11-29-2018	8		1562.7		0				
2018	11-29-2018	9		1597.6		0				
2018	11-29-2018	10		1696.2		0				
2018	11-29-2018	11		1623.2		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	11-29-2018	12		1508.5		0				
2018	11-29-2018	13		1508.1		0				
2018	11-29-2018	14		1529.2		0				
2018	11-29-2018	15		1520.2		0				
2018	11-29-2018	16		1548.8		0				
2018	11-29-2018	17		1475.9		0				
2018	11-29-2018	18		1458.4		0				
2018	11-29-2018	19		1543.9		0				
2018	11-29-2018	20		1485.4		0				
2018	11-29-2018	21		1376		0				
2018	11-29-2018	22		1083.7		0				
2018	11-29-2018	23		914.4		0				
2018	11-30-2018	0		703.5		0				
2018	11-30-2018	1		499.3		0				
2018	11-30-2018	2		406.3		0				
2018	11-30-2018	3		436.7		0				
2018	11-30-2018	4		464.8		0				
2018	11-30-2018	5		534.2		0				
2018	11-30-2018	6		771.6		0				
2018	11-30-2018	7		1486.5		0				
2018	11-30-2018	8		2115		0				
2018	11-30-2018	9		2110.4						
2018	11-30-2018	10		1932.2						
2018	11-30-2018	11		1651.7						
2018	11-30-2018	12		1593						
2018	11-30-2018	13		1511.8						
2018	11-30-2018	14		960.9						
2018	11-30-2018	15		937.9						
2018	11-30-2018	16		1054.2						
2018	11-30-2018	17		1824.5						
2018	11-30-2018	18		2112.1						
2018	11-30-2018	19		1675.6						
2018	11-30-2018	20		1187.1						
2018	11-30-2018	21		811.3						
2018	11-30-2018	22		539.1						
2018	11-30-2018	23		378.3						
2018	12-01-2018	0		287						
2018	12-01-2018	1		387.8						
2018	12-01-2018	2		336.4						
2018	12-01-2018	3		289.5						
2018	12-01-2018	4		253						
2018	12-01-2018	5		360.6						
2018	12-01-2018	6		377.1						
2018	12-01-2018	7		443.1						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-01-2018	8		564.6						
2018	12-01-2018	9		501.8						
2018	12-01-2018	10		446.7						
2018	12-01-2018	11		626.8						
2018	12-01-2018	12		589						
2018	12-01-2018	13		480.9						
2018	12-01-2018	14		415.2						
2018	12-01-2018	15		400.6						
2018	12-01-2018	16		672.8						
2018	12-01-2018	17		865.1						
2018	12-01-2018	18		1217.3						
2018	12-01-2018	19		1561.9						
2018	12-01-2018	20		1067.6						
2018	12-01-2018	21		945.7						
2018	12-01-2018	22		939.5						
2018	12-01-2018	23		759.3						
2018	12-02-2018	0		497.3						
2018	12-02-2018	1		368.7						
2018	12-02-2018	2		254.1						
2018	12-02-2018	3		180						
2018	12-02-2018	4		228						
2018	12-02-2018	5		171.3						
2018	12-02-2018	6		232.1						
2018	12-02-2018	7		207.5						
2018	12-02-2018	8		214.8						
2018	12-02-2018	9		247.3						
2018	12-02-2018	10		204.7						
2018	12-02-2018	11	0	384.6						
2018	12-02-2018	12	0	324.7						
2018	12-02-2018	13	0	315.5						
2018	12-02-2018	14	0	199.7						
2018	12-02-2018	15	0	203.8						
2018	12-02-2018	16	0	199.8						
2018	12-02-2018	17	0	387.9						
2018	12-02-2018	18	0	483						
2018	12-02-2018	19	0	764.6						
2018	12-02-2018	20	0	1029.8						
2018	12-02-2018	21	0	824.3						
2018	12-02-2018	22	0	592.3						
2018	12-02-2018	23	0	411.7						
2018	12-03-2018	0	0	253.2						
2018	12-03-2018	1	0	195.1						
2018	12-03-2018	2	0	161.5						
2018	12-03-2018	3	0	171.8						

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-03-2018	4	16.4	170.5						
2018	12-03-2018	5	16.1	171.6						
2018	12-03-2018	6	73.8	306.1						
2018	12-03-2018	7	165.5	437						
2018	12-03-2018	8	347.5	657.1						
2018	12-03-2018	9	553	422.2						
2018	12-03-2018	10	307.9	279.1						
2018	12-03-2018	11	458.9	282						
2018	12-03-2018	12	452.6	237.3						
2018	12-03-2018	13	461.4	200.4						
2018	12-03-2018	14	514.4	181						
2018	12-03-2018	15	713.3	278						
2018	12-03-2018	16	819.3	444.1						
2018	12-03-2018	17	989.8	528.1						
2018	12-03-2018	18	931.2	746.6						
2018	12-03-2018	19	911.5	400.7						
2018	12-03-2018	20	851.8	462.5						
2018	12-03-2018	21	812.3	870.4						
2018	12-03-2018	22	588.4	533.3						
2018	12-03-2018	23	380.8	307.7						
2018	12-04-2018	0	222.2	200.2						
2018	12-04-2018	1	104.7	135.8						
2018	12-04-2018	2	79.7	125.6						
2018	12-04-2018	3	91.9	118.9						
2018	12-04-2018	4	185.2	116						
2018	12-04-2018	5	339.6	126.6						
2018	12-04-2018	6	669.6	241.8						
2018	12-04-2018	7	1352.4	309.3						
2018	12-04-2018	8	1202.2	542						
2018	12-04-2018	9	840	395.2						
2018	12-04-2018	10	686.6	344.7		0				
2018	12-04-2018	11	449.7	312.3		0				
2018	12-04-2018	12	383.8	295.1		0				
2018	12-04-2018	13	313.2	304.1		0				
2018	12-04-2018	14	235.3	274.4		0				
2018	12-04-2018	15	237.9	235.3		0				
2018	12-04-2018	16	622.4	365.1		0				
2018	12-04-2018	17	999.1	731.8		0				
2018	12-04-2018	18	1147.2	937.4		0				
2018	12-04-2018	19	1074.1	903.2		0				
2018	12-04-2018	20	1036.3	566.4		0				
2018	12-04-2018	21	922.7	341.9		0				
2018	12-04-2018	22	798.3	394.9		0				
2018	12-04-2018	23	304.1	220.7		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-05-2018	0	305.9	222.1		0				
2018	12-05-2018	1	295	201.1		0				
2018	12-05-2018	2	332.1	269.7		0				
2018	12-05-2018	3	389.8	392.5		0				
2018	12-05-2018	4	956.4	660.2		0				
2018	12-05-2018	5	1146	1144.3		0				
2018	12-05-2018	6	1160.3	1866.2		0				
2018	12-05-2018	7	1088.2	1959.3		0				
2018	12-05-2018	8	908.1	1481		0				
2018	12-05-2018	9	777.5	1017.1		0				
2018	12-05-2018	10	720.7	1581.3		0				
2018	12-05-2018	11	689.5	1703.3		0				
2018	12-05-2018	12	681.2	1402.8		0				
2018	12-05-2018	13	683.4	1518.4		0				
2018	12-05-2018	14	715.6	1495.3		0				
2018	12-05-2018	15	761.7	1504.2		0				
2018	12-05-2018	16	848.4	1713.9		0				
2018	12-05-2018	17	889.4	1945.4		0				
2018	12-05-2018	18	923.3	1581.5		0				
2018	12-05-2018	19	925.6	1727.8		0				
2018	12-05-2018	20	877.7	1773		0				
2018	12-05-2018	21	788.4	1702.9		0				
2018	12-05-2018	22	770.6	1270.6		0				
2018	12-05-2018	23	697.4	843.8		0				
2018	12-06-2018	0	777.1	1150.7		0				
2018	12-06-2018	1	476.3	659.6		0				
2018	12-06-2018	2	731.5	654.9		0				
2018	12-06-2018	3	992.5	855.3		0				
2018	12-06-2018	4	1128.2	1266.3		0				
2018	12-06-2018	5	1142.8	1581.2		0				
2018	12-06-2018	6	1078.3	1542.5		0				
2018	12-06-2018	7	1032.8	1790.5		0				
2018	12-06-2018	8	904.5	1469.2		0				
2018	12-06-2018	9	869.2	1530		0				
2018	12-06-2018	10	880.5	1306.8		0				
2018	12-06-2018	11	902.8	1085.1		0				
2018	12-06-2018	12	600	797.1		0				
2018	12-06-2018	13	486.3	585.2		0				
2018	12-06-2018	14	514.6	476.9		0				
2018	12-06-2018	15	602.1	626		0				
2018	12-06-2018	16	617.3	542.7		0				
2018	12-06-2018	17	1047.7	761.7		0				
2018	12-06-2018	18	1392.9	907.1		0				
2018	12-06-2018	19	1216.1	974.6		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-06-2018	20	1007.9	1087		0				
2018	12-06-2018	21	870.2	824.1		0				
2018	12-06-2018	22	474.7	872.5		0				
2018	12-06-2018	23	353.3	783.7		0				
2018	12-07-2018	0	435.5	786.5		0				
2018	12-07-2018	1	461.5	679.3		0				
2018	12-07-2018	2	304.1	714.7		0				
2018	12-07-2018	3	409.3	572.4		0				
2018	12-07-2018	4	623.2	378.2		0				
2018	12-07-2018	5	1070.4	537.3		0				
2018	12-07-2018	6	1307.9	694.6		0				
2018	12-07-2018	7	1178	1268.9		0				
2018	12-07-2018	8	1105	627.6		0				
2018	12-07-2018	9	982.2	877.2		0				
2018	12-07-2018	10	445.4	473.4		0				
2018	12-07-2018	11	343	373.1		0				
2018	12-07-2018	12	486.8	358.4		0				
2018	12-07-2018	13	527.3	337.1		0				
2018	12-07-2018	14	424.7	351.4		0				
2018	12-07-2018	15	841.2	502.8		0				
2018	12-07-2018	16	1483.8	980.1		0				
2018	12-07-2018	17	1397.8	1334.4		0				
2018	12-07-2018	18	1140.6	1251.6		0				
2018	12-07-2018	19	992.5	1201.6		0				
2018	12-07-2018	20	990.1	1174.4		0				
2018	12-07-2018	21	905.8	1218.6		0				
2018	12-07-2018	22	882	941.9		0				
2018	12-07-2018	23	708.1	732.7		0				
2018	12-08-2018	0	758.3	528.2		0				
2018	12-08-2018	1	1159.8	572.7		0				
2018	12-08-2018	2	710.1	465.6		0				
2018	12-08-2018	3	598.2	415.8		0				
2018	12-08-2018	4	1053.4	513.6		0				
2018	12-08-2018	5	1534.6	550.2		0				
2018	12-08-2018	6	1321.4	746.4		0				
2018	12-08-2018	7	1185.7	1264.5		0				
2018	12-08-2018	8	1244.9	1277.5		0				
2018	12-08-2018	9	1292.1	1211.8		0				
2018	12-08-2018	10	1343.9	1322.6		0				
2018	12-08-2018	11	1346.8	1104.5		0				
2018	12-08-2018	12	1265.3	786.3		0				
2018	12-08-2018	13	1238.6	595.4		0				
2018	12-08-2018	14	1282.3	1092.9		0				
2018	12-08-2018	15	1251	682.8		0				

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-08-2018	16	1231.2	846.5		0				
2018	12-08-2018	17	1225.8	1418		0				
2018	12-08-2018	18	1206.2	1270.7		0				
2018	12-08-2018	19	1189.7	1224.7		0				
2018	12-08-2018	20	1217.9	1263.7		0				
2018	12-08-2018	21	1228.6	1265	0.033	0				
2018	12-08-2018	22	1241	708.4	0.044	0				
2018	12-08-2018	23	1225	532.5	0.047	0				
2018	12-09-2018	0	1289.6	1115.9	0.048	0				
2018	12-09-2018	1	1251.8	857.2	0.051	0				
2018	12-09-2018	2	1248.6	630	0.052	0				
2018	12-09-2018	3	1264.4	640.6	0.049	0				
2018	12-09-2018	4	1292.5	788.4	0.046	0				
2018	12-09-2018	5	1287.8	808.9	0.06	0				
2018	12-09-2018	6	1144.2	691.9	0.07	0				
2018	12-09-2018	7	1329.1	880.5	0.081	0				
2018	12-09-2018	8	1350.7	1073.1	0.097					
2018	12-09-2018	9	1380	1491	0.084					
2018	12-09-2018	10	1382.7	1506.7	0.079					
2018	12-09-2018	11	1410.4	1414.2	0.076					
2018	12-09-2018	12	1357.1	1455.9	0.068					
2018	12-09-2018	13	1317	1445.1	0.068					
2018	12-09-2018	14	1248.6	1364.1	0.072					
2018	12-09-2018	15	1233.2	1268.6	0.065					
2018	12-09-2018	16	1232	1351.1	0.051					
2018	12-09-2018	17	1212.8	1370.4	0.062					
2018	12-09-2018	18	1252.6	1352.2	0.067					
2018	12-09-2018	19	1256.8	1372.2	0.064					
2018	12-09-2018	20	1313	1398	0.064					
2018	12-09-2018	21	1302.8	1384.5	0.065					
2018	12-09-2018	22	1302.2	1409.5	0.067					
2018	12-09-2018	23	1318.8	869.2	0.067					
2018	12-10-2018	0	1284.4	596.7	0.067					
2018	12-10-2018	1	1220.4	615.7	0.067					
2018	12-10-2018	2	1354.3	659	0.067					
2018	12-10-2018	3	1351.9	1020.1	0.067					
2018	12-10-2018	4	1355.1	1051.4	0.067					
2018	12-10-2018	5	1330.5	1267	0.068					
2018	12-10-2018	6	1290.7	1428.4	0.068					
2018	12-10-2018	7	784.2	1388.4	0.066					
2018	12-10-2018	8	1322.7	1381.1	0.067					
2018	12-10-2018	9	1228.6	1413.5	0.067					
2018	12-10-2018	10	1158.1	1361	0.067					
2018	12-10-2018	11	1210.9	1367.3	0.067					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-10-2018	12	1281.9	1297.5	0.066					
2018	12-10-2018	13	1187.8	983	0.065					
2018	12-10-2018	14	1205	724.3	0.065					
2018	12-10-2018	15	1226	815.7	0.072					
2018	12-10-2018	16	1273.8	700.7	0.084					
2018	12-10-2018	17	1247.2	1076.5	0.072					
2018	12-10-2018	18	1198.2	1423.7	0.074					
2018	12-10-2018	19	1225.3	1398.9	0.077		0			
2018	12-10-2018	20	1289.4	1295.3	0.077		0			
2018	12-10-2018	21	1249.6	1277.7	0.077		0			
2018	12-10-2018	22	1233.8	1281.8	0.077		0			
2018	12-10-2018	23	1204.2	1047.1	0.077		37.7			
2018	12-11-2018	0	1033.6	708.9	0.077		134.2			
2018	12-11-2018	1	1170.5	717.7	0.077		196.7			
2018	12-11-2018	2	1110.5	633.8	0.077		214.9			
2018	12-11-2018	3	1096	575.2	0.077		255.7			
2018	12-11-2018	4	1223.5	734.7	0.077		443.3			
2018	12-11-2018	5	1187.5	908	0.077		578.1			
2018	12-11-2018	6	1168.1	1131.5	0.076		780.7			
2018	12-11-2018	7	1215.2	1226.1	0.084		1421.4			
2018	12-11-2018	8	1150.1	1080.9	0.07		1873.5			
2018	12-11-2018	9	1170.6	840.9	0.049		2109.6			
2018	12-11-2018	10	1177.5	442.1	0.052		1977.9			
2018	12-11-2018	11	958.3	354.8	0.062		1859.5			
2018	12-11-2018	12	480.1	233.7	0.061		1891.4			
2018	12-11-2018	13	394.5	200.1	0.061		2102.7			
2018	12-11-2018	14	291.7	148.2	0.058		2884.2			
2018	12-11-2018	15	344.5	136.9	0.061		3563.9			
2018	12-11-2018	16	450.3	130.9	0.06		3420.3			
2018	12-11-2018	17	473.1	106.4	0.06		3356.8			
2018	12-11-2018	18	487	283.3	0.06		3461.3			
2018	12-11-2018	19	432	342.5	0.06		3340.9			
2018	12-11-2018	20	512.1	349.2	0.06		3238.7			
2018	12-11-2018	21	512.3	345.2	0.06		3235.4			
2018	12-11-2018	22	452.3	244.1	0.06		2954.8			
2018	12-11-2018	23	292.4	184.5	0.06		2648.4			
2018	12-12-2018	0	158.8	99.9	0.06		2406.3			
2018	12-12-2018	1	130.9	81.2	0.06		2166.6			
2018	12-12-2018	2	81	58.9	0.06		2327			
2018	12-12-2018	3	114.1	56.5	0.06		2880.1			
2018	12-12-2018	4	288.8	81.4	0.06		3563.9			
2018	12-12-2018	5	490.4	106.6	0.06		3627.3			
2018	12-12-2018	6	468.4	215.3	0.06		3690.4			
2018	12-12-2018	7	504.8	470.8	0.06		3568.5			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-12-2018	8	537.4	444.3	0.059		2993.6			
2018	12-12-2018	9	503.3	492.7	0.059		2860.8			
2018	12-12-2018	10	450.4	378.7	0.059		2469.8			
2018	12-12-2018	11	174.7	194.3	0.059		2159.9			
2018	12-12-2018	12	154.9	124.8	0.059		2148			
2018	12-12-2018	13	142.5	95.7	0.059		2161.8			
2018	12-12-2018	14	142.1	77.7	0.059		2197.3			
2018	12-12-2018	15	193.9	94.7	0.059		2289.8			
2018	12-12-2018	16	251.3	131.7	0.059		2472.1			
2018	12-12-2018	17	329.5	352.1	0.059		2781.5			
2018	12-12-2018	18	303.7	568.1	0.059		3140			
2018	12-12-2018	19	334	483.4	0.06		3151.7			
2018	12-12-2018	20	354.8	528.4	0.059		3225			
2018	12-12-2018	21	330.2	310.2	0.06		3085			
2018	12-12-2018	22	262.4	140.5	0.06		2860.8			
2018	12-12-2018	23	132.5	90	0.06		2461.5			
2018	12-13-2018	0	79.4	84	0.06		2236.9			
2018	12-13-2018	1	49.5	79.2	0.06		2078.5			
2018	12-13-2018	2	42.1	75.6	0.06		2382.5			
2018	12-13-2018	3	49	75.9	0.06		3175.7			
2018	12-13-2018	4	61.7	107.3	0.06		3553.1			
2018	12-13-2018	5	63.8	142.1	0.06		3606			
2018	12-13-2018	6	110.9	316.1	0.06		3611.4			
2018	12-13-2018	7	243	597.2	0.06		3598.3			
2018	12-13-2018	8	290.9	488	0.06		3627.9			
2018	12-13-2018	9	155.6	481.1	0.06		3699.6			
2018	12-13-2018	10	149	314.9	0.06		3659.9			
2018	12-13-2018	11	104.4	213	0.06		3662.5			
2018	12-13-2018	12	88.3	92.4	0.06		3632.3			
2018	12-13-2018	13	58.7	70	0.059		3596.3			
2018	12-13-2018	14	40	65.4	0.059		3548.5			
2018	12-13-2018	15	43.1	74.3	0.058		3549.4			
2018	12-13-2018	16	64	138	0.057		3549.7			
2018	12-13-2018	17	86.5	322.8	0.057		3453.6			
2018	12-13-2018	18	166	577.2	0.057		3293.2			
2018	12-13-2018	19	154.5	420.8	0.057		3026.6			
2018	12-13-2018	20	239.2	556.2	0.057		2847.7			
2018	12-13-2018	21	270.7	636.8	0.057		2880.2			
2018	12-13-2018	22	106.4	426.1	0.057		2511.5			
2018	12-13-2018	23	65.3	178.9	0.057		2226.4			
2018	12-14-2018	0	266	134.6	0.057		1975.7			
2018	12-14-2018	1	219.3	209.4	0.057		2030.2			
2018	12-14-2018	2	112.9	188.5	0.057		2151.8			
2018	12-14-2018	3	0	205.5	0.057		2973.7			

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-14-2018	4		419.7	0.057		3389.3			
2018	12-14-2018	5		477.2	0.057		3459.8			
2018	12-14-2018	6		543.4	0.057		3446.9			
2018	12-14-2018	7		640.7	0.057		3456.3			
2018	12-14-2018	8		661.8	0.057		3447.8			
2018	12-14-2018	9		644.2	0.057		3449.4			
2018	12-14-2018	10		642	0.057		3484.7			
2018	12-14-2018	11		656.6	0.057		3464.9			
2018	12-14-2018	12		680.8	0.057		3446.2			
2018	12-14-2018	13		686.7	0.057		3478.8			
2018	12-14-2018	14		622.7	0.057		3486.7			
2018	12-14-2018	15		496.5	0.057		3498.8			
2018	12-14-2018	16		501.8	0.06		3343.8			
2018	12-14-2018	17		733.4	0.062		2553.8			
2018	12-14-2018	18		636.4	0.059		1664.1			
2018	12-14-2018	19		990	0.056		43.675			
2018	12-14-2018	20		1099	0.057					
2018	12-14-2018	21		937.1	0.061					
2018	12-14-2018	22		596	0.061					
2018	12-14-2018	23		348	0.061					
2018	12-15-2018	0		284.2	0.061					
2018	12-15-2018	1		294.1	0.025					
2018	12-15-2018	2		336.7						
2018	12-15-2018	3		301.9						
2018	12-15-2018	4		280.6						
2018	12-15-2018	5		302.5						
2018	12-15-2018	6		311						
2018	12-15-2018	7		572.3						
2018	12-15-2018	8		684.2						
2018	12-15-2018	9		904.5						
2018	12-15-2018	10		1219.4						
2018	12-15-2018	11		1472.5						
2018	12-15-2018	12		1234.9						
2018	12-15-2018	13		703						
2018	12-15-2018	14		684.4						
2018	12-15-2018	15		679.8						
2018	12-15-2018	16		709						
2018	12-15-2018	17		1441.1						
2018	12-15-2018	18		1566.7						
2018	12-15-2018	19		1381.1						
2018	12-15-2018	20		1453.3						
2018	12-15-2018	21		992.8						
2018	12-15-2018	22		950.8						
2018	12-15-2018	23		902.9						



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-16-2018	0		1067						
2018	12-16-2018	1		849.9						
2018	12-16-2018	2		500.6						
2018	12-16-2018	3		381						
2018	12-16-2018	4		398						
2018	12-16-2018	5		344.5						
2018	12-16-2018	6		353.6						
2018	12-16-2018	7		666.6						
2018	12-16-2018	8		887						
2018	12-16-2018	9		1349.9						
2018	12-16-2018	10		977.1						
2018	12-16-2018	11		1442.9						
2018	12-16-2018	12		1281.7						
2018	12-16-2018	13		1268.1						
2018	12-16-2018	14		1059.1						
2018	12-16-2018	15		645						
2018	12-16-2018	16		843.1						
2018	12-16-2018	17		1245.1						
2018	12-16-2018	18		1319.4						
2018	12-16-2018	19		1445.6						
2018	12-16-2018	20		1556.1						
2018	12-16-2018	21		1180.8						
2018	12-16-2018	22		692.3						
2018	12-16-2018	23		461.5						
2018	12-17-2018	0		320.7		0				
2018	12-17-2018	1		272.8		0				
2018	12-17-2018	2		197.8		0				
2018	12-17-2018	3		173.7		0				
2018	12-17-2018	4		172.5		0				
2018	12-17-2018	5		182.2		0				
2018	12-17-2018	6		229.9		0				
2018	12-17-2018	7		473.6		0				
2018	12-17-2018	8		847.6		0				
2018	12-17-2018	9		515.2		0				
2018	12-17-2018	10		468.2						
2018	12-17-2018	11		346						
2018	12-17-2018	12		239.9	0.017					
2018	12-17-2018	13		249.8	0.043					
2018	12-17-2018	14		295.8	0.047					
2018	12-17-2018	15		250.7	0.057					
2018	12-17-2018	16		265.6	0.06					
2018	12-17-2018	17		382.1	0.06					
2018	12-17-2018	18		648.6	0.06					
2018	12-17-2018	19		1308.5	0.067					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-17-2018	20		1035	0.068					
2018	12-17-2018	21		1191.1	0.073					
2018	12-17-2018	22		898.7	0.066					
2018	12-17-2018	23		590	0.065					
2018	12-18-2018	0		442.4	0.069					
2018	12-18-2018	1		312.7	0.076					
2018	12-18-2018	2		258.5	0.079			0.025		
2018	12-18-2018	3		298.7	0.074			0.047		
2018	12-18-2018	4		391	0.073			0.076		
2018	12-18-2018	5		718.9	0.072			0.089		
2018	12-18-2018	6		770.1	0.079			335.494		
2018	12-18-2018	7		1678.5	0.075			646.693		
2018	12-18-2018	8		1532.8	0.077			640.274		
2018	12-18-2018	9		454.9	0.075			642.947		
2018	12-18-2018	10		403	0.072			635.14		
2018	12-18-2018	11		409.7	0.066			649.937		
2018	12-18-2018	12		265.4	0.064			647.537		
2018	12-18-2018	13		234.6	0.066			692.438		
2018	12-18-2018	14		189.5	0.066			569.147		
2018	12-18-2018	15		179.7	0.068			554.329		
2018	12-18-2018	16		196.4	0.065			716.2		
2018	12-18-2018	17		302.7	0.06			1428		
2018	12-18-2018	18		569.5	0.059			923.4		
2018	12-18-2018	19		1059.1	0.059			259.5		
2018	12-18-2018	20		1605.9	0.06			29.106		
2018	12-18-2018	21		1522.4	0.069					
2018	12-18-2018	22		846	0.07					
2018	12-18-2018	23		594.7	0.073					
2018	12-19-2018	0		443	0.075					
2018	12-19-2018	1		394.7	0.073					
2018	12-19-2018	2		369.6	0.072					
2018	12-19-2018	3		416.3	0.072					
2018	12-19-2018	4		627.2	0.073					
2018	12-19-2018	5		943.1	0.073					
2018	12-19-2018	6		1385.5	0.073					
2018	12-19-2018	7		1770.2	0.074					
2018	12-19-2018	8		1794.3	0.077					
2018	12-19-2018	9		1727.4	0.075					
2018	12-19-2018	10		760.7	0.07					
2018	12-19-2018	11		393	0.067					
2018	12-19-2018	12		277	0.078					
2018	12-19-2018	13		195.7	0.071					
2018	12-19-2018	14		183.6	0.068					
2018	12-19-2018	15		207.8	0.067					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-19-2018	16		250.7	0.066					
2018	12-19-2018	17		297.3	0.067					
2018	12-19-2018	18		507.5	0.067					
2018	12-19-2018	19		703.3	0.066					
2018	12-19-2018	20		1003.5	0.066					
2018	12-19-2018	21		752.1	0.066					
2018	12-19-2018	22		767.3	0.066					
2018	12-19-2018	23		782.3	0.066					
2018	12-20-2018	0		410.8	0.066					
2018	12-20-2018	1		300.9	0.066					
2018	12-20-2018	2		238.2	0.066					
2018	12-20-2018	3		7.955	0.066					
2018	12-20-2018	4			0.066					
2018	12-20-2018	5			0.066					
2018	12-20-2018	6			0.066					
2018	12-20-2018	7			0.067					
2018	12-20-2018	8			0.071					
2018	12-20-2018	9			0.063					
2018	12-20-2018	10								
2018	12-20-2018	11								
2018	12-20-2018	12								
2018	12-20-2018	13								
2018	12-20-2018	14								
2018	12-20-2018	15								
2018	12-20-2018	16								
2018	12-20-2018	17								
2018	12-20-2018	18								
2018	12-20-2018	19								
2018	12-20-2018	20								
2018	12-20-2018	21								
2018	12-20-2018	22								
2018	12-20-2018	23								
2018	12-21-2018	0								
2018	12-21-2018	1								
2018	12-21-2018	2								
2018	12-21-2018	3								
2018	12-21-2018	4								
2018	12-21-2018	5								
2018	12-21-2018	6								
2018	12-21-2018	7								
2018	12-21-2018	8								
2018	12-21-2018	9								
2018	12-21-2018	10								
2018	12-21-2018	11								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-21-2018	12								
2018	12-21-2018	13								
2018	12-21-2018	14								
2018	12-21-2018	15								
2018	12-21-2018	16								
2018	12-21-2018	17								
2018	12-21-2018	18								
2018	12-21-2018	19								
2018	12-21-2018	20								
2018	12-21-2018	21								
2018	12-21-2018	22								
2018	12-21-2018	23								
2018	12-22-2018	0								
2018	12-22-2018	1								
2018	12-22-2018	2								
2018	12-22-2018	3								
2018	12-22-2018	4								
2018	12-22-2018	5								
2018	12-22-2018	6								
2018	12-22-2018	7								
2018	12-22-2018	8								
2018	12-22-2018	9								
2018	12-22-2018	10								
2018	12-22-2018	11								
2018	12-22-2018	12								
2018	12-22-2018	13								
2018	12-22-2018	14								
2018	12-22-2018	15								
2018	12-22-2018	16								
2018	12-22-2018	17								
2018	12-22-2018	18								
2018	12-22-2018	19								
2018	12-22-2018	20								
2018	12-22-2018	21								
2018	12-22-2018	22								
2018	12-22-2018	23								
2018	12-23-2018	0								
2018	12-23-2018	1								
2018	12-23-2018	2								
2018	12-23-2018	3								
2018	12-23-2018	4								
2018	12-23-2018	5								
2018	12-23-2018	6								
2018	12-23-2018	7								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-23-2018	8								
2018	12-23-2018	9								
2018	12-23-2018	10								
2018	12-23-2018	11								
2018	12-23-2018	12								
2018	12-23-2018	13								
2018	12-23-2018	14								
2018	12-23-2018	15								
2018	12-23-2018	16								
2018	12-23-2018	17								
2018	12-23-2018	18								
2018	12-23-2018	19								
2018	12-23-2018	20								
2018	12-23-2018	21								
2018	12-23-2018	22								
2018	12-23-2018	23								
2018	12-24-2018	0								
2018	12-24-2018	1								
2018	12-24-2018	2								
2018	12-24-2018	3								
2018	12-24-2018	4								
2018	12-24-2018	5								
2018	12-24-2018	6								
2018	12-24-2018	7								
2018	12-24-2018	8								
2018	12-24-2018	9								
2018	12-24-2018	10								
2018	12-24-2018	11			0.026					
2018	12-24-2018	12			0.045					
2018	12-24-2018	13			0.046					
2018	12-24-2018	14			0.049					
2018	12-24-2018	15			0.066					
2018	12-24-2018	16			0.072					
2018	12-24-2018	17			0.064					
2018	12-24-2018	18			0.053					
2018	12-24-2018	19			0.056					
2018	12-24-2018	20			0.067					
2018	12-24-2018	21			0.073					
2018	12-24-2018	22			0.076					
2018	12-24-2018	23			0.075					
2018	12-25-2018	0			0.075					
2018	12-25-2018	1			0.074					
2018	12-25-2018	2			0.075					
2018	12-25-2018	3			0.076					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-25-2018	4			0.078					
2018	12-25-2018	5			0.078					
2018	12-25-2018	6			0.078					
2018	12-25-2018	7			0.077					
2018	12-25-2018	8			0.073					
2018	12-25-2018	9			0.071					
2018	12-25-2018	10			0.071					
2018	12-25-2018	11			0.07					
2018	12-25-2018	12			0.069					
2018	12-25-2018	13			0.069					
2018	12-25-2018	14			0.069					
2018	12-25-2018	15			0.069					
2018	12-25-2018	16			0.069					
2018	12-25-2018	17			0.065					
2018	12-25-2018	18			0.061					
2018	12-25-2018	19			0.071					
2018	12-25-2018	20			0.069					
2018	12-25-2018	21			0.069					
2018	12-25-2018	22			0.069					
2018	12-25-2018	23			0.069					
2018	12-26-2018	0			0.068					
2018	12-26-2018	1			0.068					
2018	12-26-2018	2			0.068					
2018	12-26-2018	3			0.068					
2018	12-26-2018	4			0.068					
2018	12-26-2018	5			0.068					
2018	12-26-2018	6			0.068					
2018	12-26-2018	7			0.068					
2018	12-26-2018	8			0.069					
2018	12-26-2018	9			0.068					
2018	12-26-2018	10			0.068					
2018	12-26-2018	11			0.068					
2018	12-26-2018	12			0.068					
2018	12-26-2018	13			0.067					
2018	12-26-2018	14			0.067					
2018	12-26-2018	15			0.067					
2018	12-26-2018	16			0.067					
2018	12-26-2018	17			0.067					
2018	12-26-2018	18			0.066					
2018	12-26-2018	19			0.066					
2018	12-26-2018	20			0.067					
2018	12-26-2018	21			0.066					
2018	12-26-2018	22			0.067					
2018	12-26-2018	23			0.068					

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-27-2018	0			0.067					
2018	12-27-2018	1			0.067					
2018	12-27-2018	2			0.067					
2018	12-27-2018	3			0.067					
2018	12-27-2018	4			0.067					
2018	12-27-2018	5			0.067					
2018	12-27-2018	6			0.067					
2018	12-27-2018	7			0.067					
2018	12-27-2018	8			0.067					
2018	12-27-2018	9			0.067					
2018	12-27-2018	10			0.067					
2018	12-27-2018	11			0.067					
2018	12-27-2018	12			0.067					
2018	12-27-2018	13			0.067					
2018	12-27-2018	14			0.067					
2018	12-27-2018	15			0.067					
2018	12-27-2018	16			0.066					
2018	12-27-2018	17			0.064					
2018	12-27-2018	18			0.051					
2018	12-27-2018	19			0.063					
2018	12-27-2018	20			0.065					
2018	12-27-2018	21			0.066					
2018	12-27-2018	22			0.066					
2018	12-27-2018	23			0.066					
2018	12-28-2018	0			0.065					
2018	12-28-2018	1			0.067					
2018	12-28-2018	2			0.069					
2018	12-28-2018	3			0.067					
2018	12-28-2018	4			0.065					
2018	12-28-2018	5			0.065					
2018	12-28-2018	6			0.065					
2018	12-28-2018	7			0.065					
2018	12-28-2018	8			0.064					
2018	12-28-2018	9								
2018	12-28-2018	10								
2018	12-28-2018	11								
2018	12-28-2018	12								
2018	12-28-2018	13								
2018	12-28-2018	14								
2018	12-28-2018	15								
2018	12-28-2018	16								
2018	12-28-2018	17								
2018	12-28-2018	18								
2018	12-28-2018	19								

## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-28-2018	20								
2018	12-28-2018	21								
2018	12-28-2018	22								
2018	12-28-2018	23								
2018	12-29-2018	0								
2018	12-29-2018	1								
2018	12-29-2018	2								
2018	12-29-2018	3								
2018	12-29-2018	4								
2018	12-29-2018	5								
2018	12-29-2018	6								
2018	12-29-2018	7								
2018	12-29-2018	8								
2018	12-29-2018	9								
2018	12-29-2018	10								
2018	12-29-2018	11								
2018	12-29-2018	12								
2018	12-29-2018	13								
2018	12-29-2018	14								
2018	12-29-2018	15								
2018	12-29-2018	16								
2018	12-29-2018	17								
2018	12-29-2018	18								
2018	12-29-2018	19								
2018	12-29-2018	20								
2018	12-29-2018	21								
2018	12-29-2018	22								
2018	12-29-2018	23								
2018	12-30-2018	0								
2018	12-30-2018	1								
2018	12-30-2018	2								
2018	12-30-2018	3								
2018	12-30-2018	4								
2018	12-30-2018	5								
2018	12-30-2018	6								
2018	12-30-2018	7								
2018	12-30-2018	8								
2018	12-30-2018	9								
2018	12-30-2018	10								
2018	12-30-2018	11								
2018	12-30-2018	12								
2018	12-30-2018	13								
2018	12-30-2018	14								
2018	12-30-2018	15								



## 2012 - 2018 Hourly Emissions

Year	Date	Hour	Brandon Shores1	Brandon Shores2	Herbert A Wagner1	Herbert A Wagner2	Herbert A Wagner3	Herbert A Wagner4	C.P. Crane 1	C.P. Crane 2
2018	12-30-2018	16								
2018	12-30-2018	17								
2018	12-30-2018	18								
2018	12-30-2018	19								
2018	12-30-2018	20								
2018	12-30-2018	21								
2018	12-30-2018	22								
2018	12-30-2018	23								
2018	12-31-2018	0								
2018	12-31-2018	1								
2018	12-31-2018	2								
2018	12-31-2018	3								
2018	12-31-2018	4								
2018	12-31-2018	5								
2018	12-31-2018	6								
2018	12-31-2018	7								
2018	12-31-2018	8								
2018	12-31-2018	9								
2018	12-31-2018	10								
2018	12-31-2018	11								
2018	12-31-2018	12								
2018	12-31-2018	13								
2018	12-31-2018	14								
2018	12-31-2018	15								
2018	12-31-2018	16								
2018	12-31-2018	17								
2018	12-31-2018	18								
2018	12-31-2018	19								
2018	12-31-2018	20								
2018	12-31-2018	21								
2018	12-31-2018	22								
2018	12-31-2018	23								

## **Appendix B: Consent Orders, Permits and Plan Approvals**

Appendix B-1: Consent Order – Brandon Shores and Wagner Generating Stations ... pages 1749-17588

Appendix B-2: Consent Order – C.P. Crane Generating Station ... pages 1759-1763

**Appendix B-1: Consent Order – Brandon Shores and Wagner Generating Stations**

**IN THE MATTER OF:**

**RAVEN POWER  
FORT SMALLWOOD LLC  
1005 Brandon Shores Road  
Baltimore, Maryland 21226**

**\* BEFORE THE AIR AND  
\* RADIATION  
\* ADMINISTRATION  
\* OF THE MARYLAND  
\* DEPARTMENT  
\* OF THE ENVIRONMENT  
\*  
\***

**\* \* \* \* \***

**CONSENT ORDER**

The Maryland Department of the Environment (“Department”) and Raven Power Fort Smallwood LLC (“Raven Power”) hereby represent and acknowledge that they enter into this Consent Order regarding emissions at the Fort Smallwood electric generating complex, consisting of the Brandon Shores and Herbert A. Wagner electric generating stations, as they relate to the Anne Arundel County and Baltimore County 1-Hour Sulfur Dioxide (“SO<sub>2</sub>”) Non-Attainment Area.

**RECITATIONS**

WHEREAS, Raven Power owns and/or operates the Fort Smallwood electric generating complex, located at 1005 Brandon Shores Road in Baltimore, Maryland 21226 and composed of the Brandon Shores and H.A. Wagner electric generating stations (“Fort Smallwood Complex”); and

WHEREAS, on or about January 1, 2017, the Department issued to Raven Power a Part 70 Operating Permit, Permit No. 24-003-0468 (the “Operating Permit”), governing emissions to the ambient atmosphere from the operation of the Fort Smallwood Complex; and

WHEREAS, the Fort Smallwood Complex, in relevant part, burns coal in four fossil

fuel fired steam boilers (Brandon Shores Units BS1 and BS2, and H.A. Wagner Units W2 and W3) and burns oil in two fossil fuel fired steam boilers (H.A. Wagner Units W1 and W4) in order to generate electric energy for commercial sale. The burning of coal and oil at the Fort Smallwood Complex results in the emission of SO<sub>2</sub> to the ambient atmosphere; and

WHEREAS, on or about June 30, 2016 (effective September 12, 2016), the United States Environmental Protection Agency (“EPA”) designated the area within 28.6 kilometers around Unit W3 of the H.A. Wagner electric generating station as a nonattainment area under the 1-Hour SO<sub>2</sub> National Ambient Air Quality Standard (“NAAQS”) (“SO<sub>2</sub> Nonattainment Area”). The Fort Smallwood Complex is within the SO<sub>2</sub> Nonattainment Area; and

WHEREAS, pursuant to its obligations under § 172 of the federal Clean Air Act, 42 U.S.C. § 7502, the State of Maryland is required to submit to the EPA, for its review and approval, a State Implementation Plan (“SIP”) designed to reduce SO<sub>2</sub> emissions such that the SO<sub>2</sub> levels in the SO<sub>2</sub> Nonattainment Area will not exceed the 1-Hour SO<sub>2</sub> NAAQS; and

WHEREAS, a nonattainment SIP may include voluntary emissions reductions from sources of pollutants, so long as the voluntary reductions are made federally enforceable; and

WHEREAS, pursuant to §§ 2-103 and 2-604 of the Environment Article, Annotated Code of Maryland, the Department has jurisdiction over emissions into the air and may

issue corrective orders to address violations of ambient air quality requirements in the State;  
and

WHEREAS, notwithstanding the Fort Smallwood Complex's contributions to the SO<sub>2</sub> Nonattainment Area, the Department acknowledges that the Fort Smallwood Complex has not violated the provisions governing SO<sub>2</sub> emissions in the Code of Maryland Regulations or the Operating Permit; and

WHEREAS, Raven Power and the Department wish to enter into this Consent Order, the provisions of which will be incorporated into Maryland's SIP and the Operating Permit, to establish federally enforceable emissions limits designed to help attain the 1-Hour SO<sub>2</sub> NAAQS in the SO<sub>2</sub> Nonattainment Area.

#### **ORDER**

NOW THEREFORE, pursuant to § 2-604 of the Environment Article, Annotated Code of Maryland, the Department hereby **ORDERS**, and Raven Power hereby **CONSENTS** to the following:

#### **EMISSIONS LIMITS**

1. Beginning January 1, 2021, at all times when Unit BS1 and/or BS2 at the Brandon Shores generating station (whether operating individually or in tandem) and Unit W3 at the H.A. Wagner generating station are simultaneously operating, the following SO<sub>2</sub> emissions limits shall apply:

- a. Units BS1, BS2, and W3 shall not exceed a cumulative SO<sub>2</sub> emissions limit of 3,860 pounds per hour, as measured on a 30-day rolling average,



including only those hours when the applicable units are operating; and

- b. Units BS1 and BS2 (operating either individually or in tandem) shall not exceed a cumulative total of 435 hours per calendar year when the applicable units are operating at a combined SO<sub>2</sub> emissions rate greater than 2,851 pounds per hour.

2. Beginning January 1, 2021, at all times when operating, Unit BS1 and BS2 at the Brandon Shores generating station (whether operating individually or in tandem) shall not exceed a combined SO<sub>2</sub> emissions limit of 3,860 pounds per hour, as measured on a 30-day rolling average.

3. Beginning January 1, 2021, at all times when operating, Unit BS1 and BS2 at the Brandon Shores generating station (whether operating individually or in tandem) shall not exceed a combined SO<sub>2</sub> emissions limit of 9,980 pounds per hour, as measured on a rolling three-hour average.

4. Beginning January 1, 2021, at all times when Unit W3 at the H.A. Wagner generating station is not operating, Unit BS1 and BS2 at the Brandon Shores generating station (whether operating individually or in tandem) shall not exceed a combined SO<sub>2</sub> emissions limit of 5,150 pounds per hour, as measured on a 1-hour average, on more than three hours per calendar year.

5. Beginning January 1, 2021, at all times when operating, Unit W1 at the H.A. Wagner generating station shall not exceed an SO<sub>2</sub> emissions limit of 480 pounds per hour, as measured on a one-hour average.

6. Beginning January 1, 2021, at all times when operating, Unit W1 at the H.A. Wagner generating station shall not exceed 438 hours of operation per calendar year when burning fuel oil.

7. No later than July 1, 2020, Unit W2 at the H.A. Wagner generating station shall permanently cease burning coal and shall only burn natural gas.

8. Beginning January 1, 2021, at all times when operating, Unit W3 at the H.A. Wagner generating station shall not exceed an SO<sub>2</sub> emissions limit of 1,904 pounds per hour, as measured on a 30-day rolling average.

9. Beginning January 1, 2021, at all times when operating, Unit W3 at the H.A. Wagner generating station shall not exceed a maximum rate of 3,289 pounds SO<sub>2</sub> per hour, as measured on a one-hour average.

10. Beginning January 1, 2021, at all times when operating, Unit W3 at the H.A. Wagner generating station shall not exceed a cumulative total of 336 hours per calendar year when the Unit's SO<sub>2</sub> emissions rate is greater than 2,299 pounds per hour, as measured on a one-hour average.

11. Beginning January 1, 2021, at all times when operating, Unit W4 at the H.A. Wagner generating station shall not exceed an SO<sub>2</sub> emissions limit of 1,350 pounds per hour, as measured on a one-hour average.

12. Beginning January 1, 2021, at all times when operating, Unit W4 at the H.A. Wagner generating station shall not exceed 438 hours of operation per calendar year when burning fuel oil.

### COMPLIANCE MECHANISM

13. Raven Power will demonstrate compliance with the limitations of Paragraphs 1 through 12 through quarterly reports utilizing calculation methodologies, continuous emissions monitoring system (CEMS) availability requirements, and a report format approved by the Department. Raven Power shall submit the proposed methodologies, CEMS availability requirements, and report format within 6 months of the effective date of this consent order for approval by the Department. Raven Power shall submit each quarterly report within 30 days of the end of the applicable quarter.

14. For the purposes of Paragraphs 1-12, which require the calculation of emissions rates, an emissions rate shall be calculated as the sum of the SO<sub>2</sub> hourly emissions (lbs) of all the applicable units during the applicable period, divided by the sum of the operating hours during the applicable period. "Operating hour" is defined as any hour or portion of an hour that a unit combusts fossil fuel.

### CONTINGENCY MEASURES

15. Raven Power shall comply with the following contingency measures, which are a required component of the nonattainment SIP revision pursuant to Section 172(c)(9) of the Clean Air Act.

16. At any time that emissions from BS1, BS2, and/or W3 at the Fort Smallwood Complex exceed one or more of the SO<sub>2</sub> emissions limits or fuel oil operations limits identified in Paragraphs 1 through 12 of this Consent Order, Raven Power shall, with 48



hours of such exceedance, undertake a full-system audit of Units BS1, BS2, W1, W2, W3, and W4 (cumulatively) at the Fort Smallwood Complex and shall submit a telephone report on the next business day and a written report to the Department within 10 days of the exceedance. At any time that emissions from Units W1, W2, and/or W4 at the Fort Smallwood Complex exceed one or more of the SO<sub>2</sub> emissions limits or fuel oil operations limits identified in Paragraphs 1 through 12 of this Consent Order, Raven Power shall, within 48 hours of knowledge of fuel test results, undertake a full-system audit of Units BS1, BS2, W1, W2, W3, and W4 (cumulatively) at the Fort Smallwood Complex and shall submit a telephone report on the next business day and a written report to the Department within 10 days of the exceedance. The telephone report shall be submitted pursuant to COMAR 26.11.01.07C. A written report to satisfy this requirement shall include both (1) the results of the full-system audit, and (2) a report of excess emissions prepared pursuant to COMAR 26.11.01.07D and Section 3.4 of the Operating Permit. The full-system audit shall consist of a review of the parameters routinely monitored by the continuous emissions monitoring systems and the digital data acquisition systems installed on the SO<sub>2</sub> generating units and their control devices and programs to determine whether or not the units and their controls were operating in accordance with good engineering practices.

- a. If the units or their controls were not operating in accordance with good engineering practices, then Raven Power shall implement corrective actions to ensure that the limits of this Consent Order are not exceeded.
- b. If the units and controls **were** operating in accordance with good

engineering practice, then Raven Power shall inform the Department as to the reasons for their exceedance of one or more of their SO<sub>2</sub> emissions limits and implement corrective actions to ensure that the limits of this Consent Order are not exceeded.

- c. In any case of an exceedance of an SO<sub>2</sub> emission limit or of a fuel oil operations limit, Raven Power shall document and notify the Department of the corrective actions that they have taken.
- d. The audit, report of excess emissions, documentation of corrective actions taken, and associated records shall be maintained on site for five years.

17. If the Essex, Maryland monitor (AIRS ID 24-005-3001) or any other Department-approved air quality SO<sub>2</sub> monitor located within the SO<sub>2</sub> Nonattainment Area, measures a 1-hour SO<sub>2</sub> concentration exceeding 75 parts per billion (i.e. an exceedance of the 1-hour SO<sub>2</sub> NAAQS), then the Department will notify Raven Power within 5 business days both verbally and in writing. If, however, Raven Power first notifies the Department both verbally and in writing of the monitored exceedance, then the Department will not also notify Raven Power. In either case, whether it is the Department or Raven Power who first notifies the other party of the monitor's exceedance of the 75 parts per billion SO<sub>2</sub> limit, within 2 business days of that first notification, Raven Power shall notify the Department whether Units BS1, BS2, W1, W2, W3, and W4 were running at the time of the exceedance or within 24 hours preceding the exceedance. If any of those Units were running during that timeframe, Raven Power shall analyze the meteorological data on the day the 1-hour

exceedance occurred to determine the extent the Fort Smallwood SO<sub>2</sub> emissions contributed to the 1-hour exceedance. The meteorological data analysis shall include: (1) trajectories run at three different heights (one at stack height; and two more within the boundary layer) by the National Oceanic and Atmospheric Administration's Hysplit program or an equivalent program; and (2) an analysis of meteorological data including the Baltimore-Washington International Airport's meteorological data and modeled upper air data using the National Weather Service's Bufrkit or an equivalent program. Raven Power shall submit its meteorological data analysis, and its findings there from, to the Department within 30 days of written notification of the exceedance of the 1-hour SO<sub>2</sub> NAAQS.

#### INCORPORATION OF REQUIREMENTS

18. The Department intends to submit this Consent Order to the EPA for inclusion in the Maryland SIP. Raven Power agrees that it will not object to a revision of the Maryland SIP that incorporates the SO<sub>2</sub> emissions limits and contingency measures of this Consent Order. Upon renewal of the Operating Permit, the Department shall incorporate the SO<sub>2</sub> emissions limits, compliance mechanisms, and contingency measures of this Consent Order into the federally enforceable portion of the Operating Permit pursuant to COMAR 26.11.03.20A(1)(d). Raven Power further agrees that it shall not object to incorporation of the SO<sub>2</sub> emissions limits, compliance mechanisms, and contingency measures of this Consent Order into the Operating Permit.

IN WITNESS WHEREOF, this Consent Order is agreed to, and the terms and conditions herein consented to, as evidenced by the parties' respective signatures affixed

below as of the day and year written.

STATE OF MARYLAND  
DEPARTMENT OF THE ENVIRONMENT

4 December 2019  
Date

George S. Aburn, Jr.  
George S. Aburn, Jr., Director  
Air & Radiation Administration

RAVEN POWER FORT SMALLWOOD LLC

12/2/2019  
Date

Scott M Blair  
Scott Blair, Vice President  
Raven Power Fort Smallwood LLC

Approved as to form and legal sufficiency  
this 4<sup>th</sup> day of December, 2019.

Michael F. Strande  
Michael F. Strande  
Assistant Attorney General



IN THE MATTER OF:

C.P. CRANE LLC  
251 Little River Drive  
Wilmington, Delaware 19808

\* BEFORE THE AIR AND  
\* RADIATION  
\* ADMINISTRATION  
\* OF THE MARYLAND  
\* DEPARTMENT  
\* OF THE ENVIRONMENT  
\*  
\*

\* \* \* \* \*

**CONSENT ORDER**

The Maryland Department of the Environment (hereinafter “the Department” or “MDE”) and C.P. Crane LLC hereby represent and acknowledge that they enter into this Consent Order regarding emissions at the C.P. Crane electric generating station as they relate to the Anne Arundel County and Baltimore County 1-Hour Sulfur Dioxide (“SO<sub>2</sub>”) Non-Attainment Area.

**RECITATIONS**

WHEREAS, C.P. Crane LLC owns and operates the C.P. Crane electric generating station, located at 1001 Carroll Island Road in Middle River, Maryland 21220 (“Crane Generating Station”); and

WHEREAS, on or about June 1, 2016, the Department issued to C.P. Crane LLC Part 70 Operating Permit, Permit No. 24-005-0079 (the “Operating Permit”), governing emissions to the ambient atmosphere from the operation of the Crane Generating Station; and

WHEREAS, the Crane Generating Station, in relevant part, burns coal in two fossil-fuel fired cyclone burner steam boilers in order to generate electric energy for commercial sale. The burning of coal at Unit 1 and Unit 2 of the Crane Generating

Station results in the emission of SO<sub>2</sub> to the ambient atmosphere; and

WHEREAS, on or about June 30, 2016, the United States Environmental Protection Agency designated the area within 28.6 kilometers around Unit W3 of the H.A. Wagner electric generating station as a nonattainment area under the 1-hour SO<sub>2</sub> National Ambient Air Quality Standard ("NAAQS") ("SO<sub>2</sub> Nonattainment Area"). The Crane Generating Station is within the SO<sub>2</sub> Nonattainment Area; and

WHEREAS, pursuant to its obligations under § 172 of the federal Clean Air Act, 42 U.S.C. § 7502, the State of Maryland is required to submit to the EPA, for its review and approval, a State Implementation Plan ("SIP") designed to reduce SO<sub>2</sub> emissions such that the SO<sub>2</sub> levels in the SO<sub>2</sub> Nonattainment Area will not exceed the 1-Hour SO<sub>2</sub> NAAQS; and

WHEREAS, a nonattainment SIP may include voluntary emissions reductions from sources of pollutants, so long as the voluntary reductions are made federally enforceable; and

WHEREAS, pursuant to §§ 2-103 and 2-604 of the Environment Article, Annotated Code of Maryland, the Department has jurisdiction over emissions into the air and may issue corrective orders to address violations of ambient air quality requirements in the State; and

WHEREAS, notwithstanding the Crane Generating Station's contributions to the SO<sub>2</sub> Nonattainment Area, the Department acknowledges that the Crane Generating Station has not violated the provisions governing SO<sub>2</sub> emissions in the Code of Maryland

Regulations or the Operating Permit; and

WHEREAS, C.P. Crane LLC and the Department wish to enter into this Consent Order, the provisions of which will be incorporated into Maryland's SIP and the Operating Permit, to establish federally enforceable emissions limits designed to help attain the 1-Hour SO<sub>2</sub> NAAQS in the SO<sub>2</sub> Nonattainment Area.

### **ORDER**

NOW THEREFORE, pursuant to § 2-604 of the Environment Article, Annotated Code of Maryland, the Department hereby **ORDERS**, and C.P. Crane LLC hereby **CONSENTS** to the following:

#### **EMISSIONS LIMIT**

1. At all times, Unit 1 and Unit 2 (the "Units") at the Crane Generating Station (whether operating individually or in tandem) shall not exceed a combined SO<sub>2</sub> emissions limit of 2,900 pounds per hour, as measured on a 1-hour average.

#### **COMPLIANCE MECHANISM**

2. C.P. Crane LLC has disabled the Units and C.P. Crane LLC agreed to permanently cease the burning of coal in the Units under a previous Consent Order executed with the Department. As such, C.P. Crane LLC will notify the Department (1) upon implementation of any plan to restart coal burning operations at either Unit 1 or Unit 2 and (2) of any change in the inoperable status of the Units within 48 hours of the change.

3. Should a change in status to the Units occur that affects the SO<sub>2</sub> emission



limits of the units then C.P. Crane LLC will demonstrate compliance with the limitation of Paragraph 1 through reports utilizing calculation methods approved by the Department.

4. For the purposes of calculating a combined emissions rate pursuant to Paragraph 1, C.P. Crane LLC shall document each unit's hourly emissions rate, as calculated on a 1-hour average. A combined hourly emissions rate shall be calculated as the sum of each applicable unit's hourly average emissions (lbs) during the applicable period.

5. Compliance with the SO<sub>2</sub> emissions limit of Paragraph 1 shall be measured using a continuous emissions monitoring system installed, maintained, and operated in accordance with COMAR 26.11.01.011 and 40 CFR Part 75.

#### INCORPORATION OF REQUIREMENTS

6. The Department intends to submit this Consent Order to the U.S. Environmental Protection Agency for inclusion in the Maryland State Implementation Plan. C.P. Crane LLC agrees that it will not object to a revision of the Maryland State Implementation Plan that incorporates the SO<sub>2</sub> emissions limits of this Consent Order. Upon renewal of the Operating Permit, the Department shall incorporate the SO<sub>2</sub> emissions limits of this Consent Order into the federally enforceable portion of the Operating Permit pursuant to COMAR 26.11.03.20A(1)(d). C.P. Crane LLC further agrees that it shall not object to incorporation of the SO<sub>2</sub> emissions limits of this Consent Order into the Operating Permit.


IN WITNESS WHEREOF, this Consent Order is agreed to and the terms and



conditions herein consented to as evidenced by the parties' respective signatures affixed below as of the day and year written.

10/9/19  
Date

STATE OF MARYLAND  
DEPARTMENT OF THE ENVIRONMENT

  
George S. Aburn, Jr., Director  
Air & Radiation Management Administration


C.P. CRANE LLC

10/8/19  
Date



Jennifer Phillips Vice President  
Printed Name and Title

Approved as to form and legal sufficiency  
this 9<sup>th</sup> day of October, 2019.

  
Michael F. Strande  
Assistant Attorney General

**State of Maryland, 1-Hour SO<sub>2</sub> NAAQS State Implementation Plan for the Anne Arundel County and Baltimore County, MD (“Wagner”) Nonattainment Area**

## **Appendix C: Air Dispersion Modeling Support Documents**

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Appendix C-6: Air Dispersion Modeling Protocol	...pages 2083-2134
Appendix C-7: Weight of Evidence – Supplemental Information on Air Dispersion Modeling	... pages 2135-2142

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<sup>1</sup> Appendix C-3, Air Dispersion Modeling Data, consists of modeling software files. They are very large files and are available separately from this document. Please see MDE’s Air Quality Planning page at <https://mde.maryland.gov/programs/Air/AirQualityPlanning/Pages/index.aspx>.

# SO<sub>2</sub> NAAQS Compliance Modeling Report for the Anne Arundel and Baltimore Counties, MD Non-Attainment Area – Rev 1

**FINAL**

Talen Energy and PurENERGY LLC

February 27, 2018

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**Appendix A:** EPA Technical Support Document (TSD) for Maryland Area Designations for the 2010 SO<sub>2</sub> Primary National Air Quality Standard

**Appendix B:** Time Series Plots of 100 Years of Simulated Emissions for Brandon Shores – Case 1

**Appendix C:** Time Series Plots of 100 Years of Simulated Emissions for Brandon Shores – Case 2

**Appendix D:** Time Series Plots of 100 Years of Simulated Emissions for Wagner Unit 1

**Appendix E:** Time Series Plots of 100 Years of Simulated Emissions for Wagner Unit 4

**Appendix F:** Time Series Plots of 100 Years of Simulated Emissions for Wagner Unit 3

**Appendix G:** Table of Highest 5-year Average 99<sup>th</sup> Percentile Daily Maximum SO<sub>2</sub> Concentrations for Case 1

**Appendix H:** Table of Highest 5-year Average 99<sup>th</sup> Percentile Daily Maximum SO<sub>2</sub> Concentrations for Case 2



# 1. Introduction

## 1.1 Background

The United States Environmental Protection Agency (EPA) promulgated a 1-hour National Ambient Air Quality Standard (NAAQS) for SO<sub>2</sub> in 2010. The 1-hour SO<sub>2</sub> NAAQS has a level set at 75 ppb and the form of the standard is the average of the 99<sup>th</sup> percentile of the daily maximum 1-hour average concentrations realized in each of three consecutive calendar years (the “design value,” or DV).

The EPA is implementing the 2010 1-hour SO<sub>2</sub> NAAQS in an approach that involves either a dispersion modeling or monitoring approach to characterize local SO<sub>2</sub> concentrations near isolated emission sources. EPA’s Data Requirements Rule (DRR) was finalized on August 21, 2015 and H.A. Wagner Generating Station, Brandon Shores Generating Station and C.P. Crane Generating Station were informed that they are subject to the requirements in the DRR.

Talen Energy’s H.A. Wagner Generating Station and Brandon Shores Generating Station and PurENERGY’s C.P. Crane were modeled as part of the Consent Decree Round 2 phase of the SO<sub>2</sub> characterization process. Modeling was relied upon for the characterization, although all SO<sub>2</sub> monitors in the greater Baltimore area show attainment. Modeling provided by Maryland Department of Environment (MDE) supported their recommendation that the area be classified as attainment/unclassifiable made on April 19, 2016. However, on July 1, 2016, based upon use of default modeling approaches, EPA designated portions of Anne Arundel and Baltimore Counties around the H. A. Wagner power plant (Wagner) as non-attainment for the SO<sub>2</sub> primary NAAQS (see Figure 1-1). Per EPA, “a non-attainment area should contain the area violating the NAAQS as well as any adjacent areas (e.g., counties or portions thereof) that contain emissions sources contributing to the violation.”<sup>1</sup> Appendix A of this report contains EPA’s Technical Support Document (TSD)<sup>2</sup> for Maryland Area Designations for the 2010 SO<sub>2</sub> NAAQS. Due to its proximity to Wagner and Brandon Shores Generating Stations, C.P. Crane Generating Station (C.P. Crane) potential-to-emit (PTE) emission rate of 3.5 lb/MMBtu for each unit, EPA included the area around C.P. Crane in the nonattainment designation as well, even including areas with monitored concentrations well below the NAAQS. The locations of the large SO<sub>2</sub> sources in or near the nonattainment area are shown in Figure 1-2.

The MDE is required to prepare and submit a State Implementation Plan (SIP) to EPA that demonstrates the steps taken to achieve attainment of the NAAQS throughout the nonattainment area (NAA). The SIP must include a dispersion modeling study that indicates the expected SO<sub>2</sub> emission reductions required to bring the entire NAA into attainment within 5 years after the effective date of the nonattainment designation (by September 2021). It is desirable in the case of a monitored violation for the attainment demonstration to have controls in place 1 year in advance of the 5-year deadline in order to determine the effect of the controls on the monitor. In this case, there is no monitored violation at all, and the nonattainment area is solely based upon modeling with conservative default assumptions. However, MDE has indicated that SIP emissions inventories are developed based on calendar year. Therefore, it is appropriate for the proposed emission limits associated with modeled NAAQS attainment to be in place by January 1, 2021.

MDE and EPA Region 3 requested that a single modeling protocol and subsequent report for Wagner, Brandon Shores and C.P. Crane be provided for the Anne Arundel and Baltimore Counties non-attainment area. Talen Energy and PurENERGY have both contracted AECOM to submit this modeling report to satisfy the EPA requirements for a 1-hour SO<sub>2</sub> State Implementation Plan (SIP) modeling demonstration for the Baltimore area.

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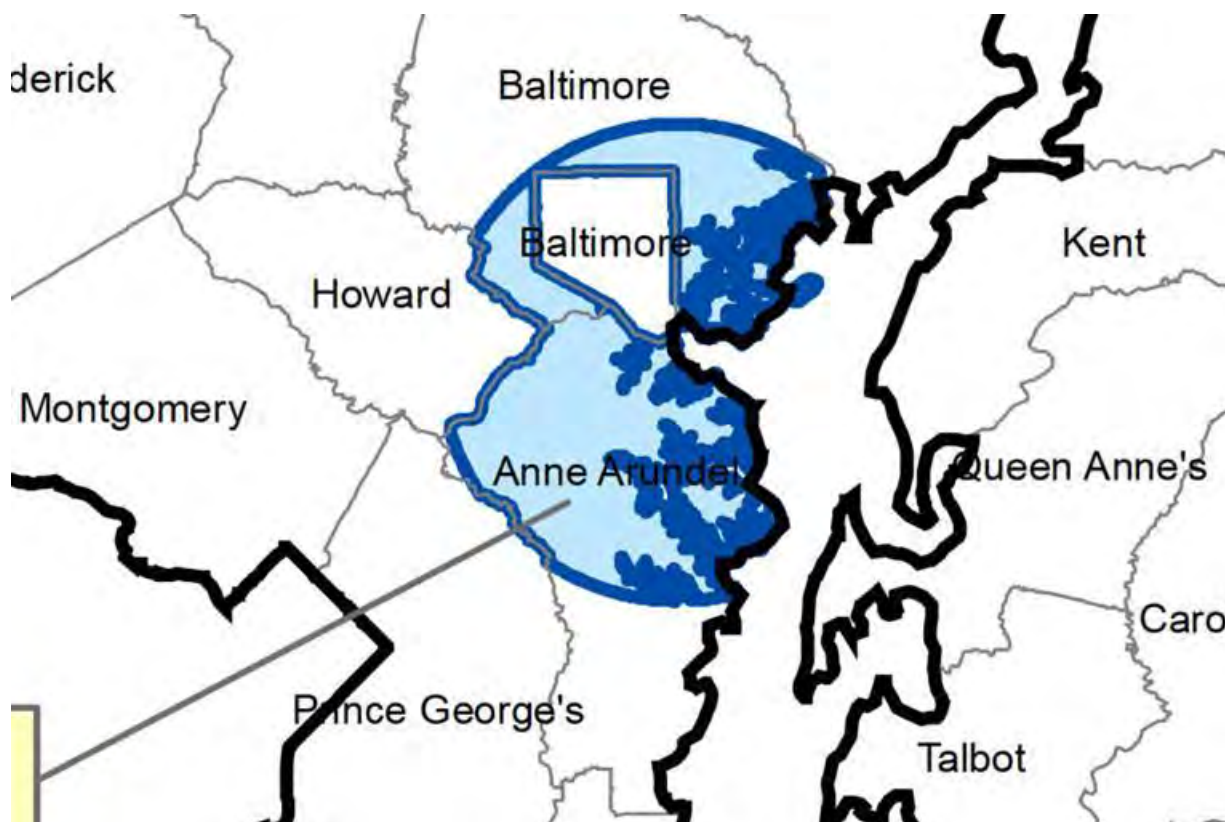
<sup>1</sup> EPA Memorandum – Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards – March 24, 2011.

<sup>2</sup> EPA Technical Support Document for Final Designation - Maryland. Available at: [https://www.epa.gov/sites/production/files/2016-06/documents/r3\\_md\\_final\\_designation\\_tsd\\_06302016.pdf](https://www.epa.gov/sites/production/files/2016-06/documents/r3_md_final_designation_tsd_06302016.pdf)

## 1.2 Document Organization

Section 2 provides a review of the ambient background monitor trends. Section 3 provides a discussion of SO<sub>2</sub> emission sources that were included in the modeling demonstration. Section 4 outlines the modeling procedures used, including model options, meteorological data, receptors, and background concentrations. Section 5 provides the results of the modeling for the 1-hour emission rates (EPA refers to these emission rates as “critical emission values”, CEVs) that show modeled NAAQS compliance assuming continuous operation at those rates. EPA’s SIP development guidance for non-attainment areas<sup>3</sup> allows for the consideration of lower longer-term (e.g., up to 30-day) average emission rates that provide for comparable stringency with the 1-hr critical emissions values. Section 6 discusses the approaches used to establish permitted SO<sub>2</sub> emission rates for plant-specific averaging times for the emission sources included in this modeling study.

**Figure 1-1: Anne Arundel County and Baltimore County SO<sub>2</sub> Nonattainment Area**



Source: [https://www3.epa.gov/airquality/greenbook/map/mdso2\\_2010.pdf](https://www3.epa.gov/airquality/greenbook/map/mdso2_2010.pdf).

<sup>3</sup> Available at <http://www.epa.gov/airquality/sulfurdioxide/pdfs/20140423guidance.pdf>.

**Figure 1-2: Locations of Current and Proposed Large SO<sub>2</sub> Sources in the Baltimore Area**



## 2. Review of Ambient Background Monitoring Data

There are two SO<sub>2</sub> monitors located in the Baltimore area, the Essex monitor (#24-005-3001) located northeast of the city and Howard University's Beltsville Laboratory (HU-Beltsville) monitor located southwest of the city. The HU-Beltsville monitor (#24-033-0030) began collecting data in 2006 and the Essex monitor began collecting data in 2003.

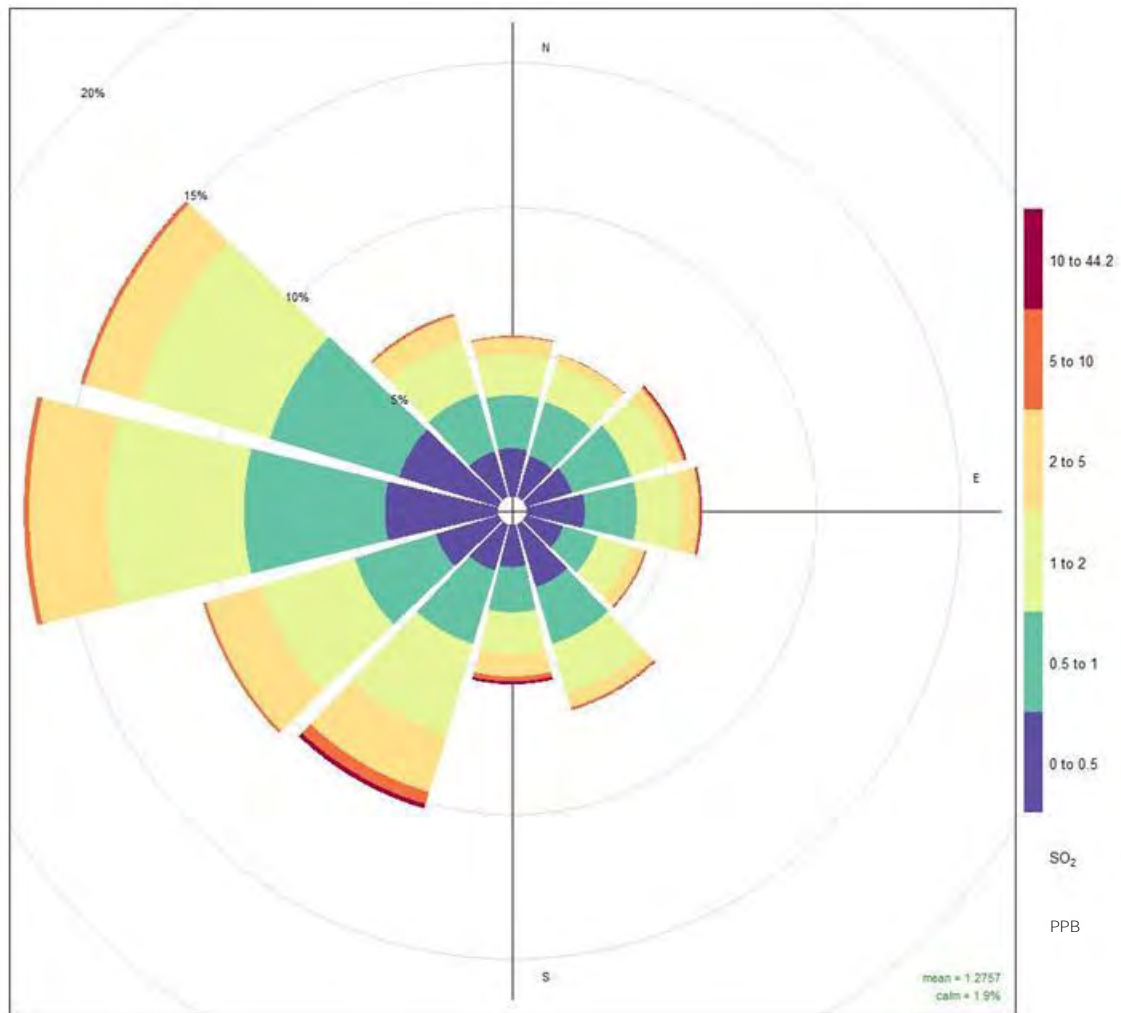
Table 2-1 shows the 1-hr SO<sub>2</sub> 99<sup>th</sup> percentiles of the daily 1-hour maximum concentrations from 2007 through 2016 for the Essex and HU-Beltsville SO<sub>2</sub> monitors. The 3-year average design values were above the then-future 1-hour NAAQS in the mid-2000's at the Essex monitor, but regional emissions reductions have reduced ambient monitor concentrations in the last five years and as such, the design values have leveled off to approximately 25% of the 1-hour NAAQS at Essex and 12% of the NAAQS at HU-Beltsville.

**Table 2-1: 99<sup>th</sup> Percentile of the Daily 1-hour Maximum SO<sub>2</sub> Concentrations at the Essex and Beltsville Monitors**

Year	99 <sup>th</sup> Percentile of the Daily 1-hour Maximum Concentrations (ppb)		3-Year Average Design Values (ppb)	
	Essex	Beltsville	Essex	Beltsville
2007	129	34	--	--
2008	56	28	--	--
2009	54	24	79.7	28.7
2010	20	10	43.3	20.7
2011	27	12	33.7	15.3
2012	19	12	22.0	11.3
2013	21	7	22.3	10.3
2014	26	14	22.0	11.0
2015	18	8	21.7	9.7
2016	13	5	19.0	9.0

As shown in Figure 1-2, the Essex monitor is located near or downwind of all sources included in the modeling, and it is inside the nonattainment area (although the monitored concentrations are less than half of the NAAQS). Figure 2-1 shows a pollution rose for combined years 2012-2014. The wind direction data is taken from Baltimore-Washington International Airport, MD ASOS station. The predominant winds for the highest (dark red) concentrations are from the south/southwest (Fort Smallwood and Wheelabrator) and east/northeast (from C.P. Crane). As such, to avoid double-counting the SO<sub>2</sub> concentrations from the modeled sources with the regional background estimates, Talen Energy and PurENERGY used the HU-Beltsville monitor when developing the ambient background concentrations to be included in this modeling analysis. The development of the background concentrations input to AERMOD is discussed in Section 4.7.

**Figure 2-1: Pollution Rose for Essex SO<sub>2</sub> Monitor for years 2014-2016**





## 3. Emission Source Inventory

### 3.1 Sources Modeled

The EPA Technical Support Document (TSD; see Appendix A) discusses SO<sub>2</sub> emission sources that were recommended by EPA to be included in the Maryland SIP modeling analysis.

Figure 1-1 shows the sources located within and near the Anne Arundel and Baltimore Counties, MD NAA. The sources include two boilers at C.P. Crane and Brandon Shores, four boilers at H.A. Wagner and an incinerator at Wheelabrator. Table 3-1 lists the stack parameters for the sources that were modeled for full-load operations. Varying load stack parameters for Brandon Shores and Wagner Unit 3 are discussed in Sections 6.3 and 6.5.2, respectively.

For purposes of modeling a new source for permitting, emission rates and stack parameters for the 1-hour SO<sub>2</sub> SIP modeling typically are held constant using full load conditions. However, the SO<sub>2</sub> Nonattainment Modeling Guidance<sup>3</sup> allows for some flexibility for sources that do not operate during all hours of the year or which have infrequent higher emission rates using the methodologies for rolling 30-day emission rates in Appendices B, C and D of the guidance. As such, longer-term permitted emission rates for the units at Brandon Shores and Wagner have been calculated in accordance with EPA's Nonattainment Modeling Guidance, using modeling procedures described in EPA's Appendix B and are provided in Section 6 of this report. C.P. Crane will commit to a 1-hour emission rate of 2,900 lb/hr (365.3939 g/s) as a cap for Units 1 and 2 combined. The 1-hour SO<sub>2</sub> emission rate for the incinerator at Wheelabrator included as a background source in the modeling was 375 lb/hr (47.25 g/s), which was provided by MDE. Based on EPA's National Emission Inventory (NEI) database and the inventory included in the SO<sub>2</sub> DRR, no other large stationary SO<sub>2</sub> sources (i.e., > 100 TPY) exist within 20 kilometers of the Fort Smallwood Complex.

#### 3.1.1 Brandon Shores Units

Brandon Shores Units 1 and 2 exhaust to two flues in one shell with height and internal exit diameter values as reported in Table 3-1. For the modeling demonstration, a single merged stack is used for Units 1 and 2. To account for this merged stack in the modeling, the average velocity, weighted average temperature, and equivalent stack diameter were used in AERMOD, consistent with EPA Model Clearinghouse Memo 91-II-01.

Brandon Shores Units 1 and 2 are solid fossil fuel fired generating units with low-sulfur (< 0.3% S) No. 2 oil used for burner start-up purposes. A description of a typical startup sequence for these units is provided below.

For startup, low-sulfur No. 2 oil ignitors are used in the boiler for approximately 16 hours, at which point the main (coal-fired) burners begin to be turned on. More coal burners are transitioned into service over the next ~10 hours, at which point the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next 6 hours. All flue gases pass through the scrubber, which is operational at all times; there is no bypass.

#### 3.1.2 H.A. Wagner Units

H.A. Wagner Unit 1 is a No. 6 oil or natural gas fired unit. Unit 3 is a coal fired unit with natural gas used for start-up. Unit 4 is a No. 6 oil fired unit with natural gas fired used for start-up. Wagner Unit 2 will cease burning coal and will have zero or insignificant (less than 0.1 g/s) SO<sub>2</sub> emissions by the end of June 2020 due to NO<sub>x</sub> RACT and therefore is not included as an SO<sub>2</sub> source for the modeling demonstration. Talen Energy will commit to via a consent agreement to cease burning coal or fuel oil in Wagner Unit 2. The following are descriptions of the typical startup sequences for these units.

Wagner Unit 1: natural gas ignitors are used in the boiler for approximately 8 hours, at which point main burners (gas or oil) are turned on and the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next hour.

Wagner Unit 3: natural gas ignitors are used in the boiler for approximately 6 hours, at which point main burners (coal-fired) begin to be turned on. More coal burners are transitioned into service over the next ~12 hours, at which point the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next four hours. Dry sorbent injection is commenced for SO<sub>2</sub> and acid gas control prior to achieving minimum load.

Wagner Unit 4: natural gas ignitors are used in the boiler for approximately 10 hours, at which point the main burners (oil) are turned on. More oil burners are transitioned into service over the next ~8 - 10 hours, at which point, the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next two hours.

Future operational changes to be in place by January 2021 at Wagner that will result in lower SO<sub>2</sub> emissions include;

- Unit 1 will operate no more than 5% of the hours during any calendar year (438 hours), and will fire low-sulfur (0.3%) No. 6 oil (no limit on hours operated using natural gas);
- Unit 3 will burn lower-sulfur coal, such as New Source Performance Standard (NSPS) compliant coal (1.1 lb SO<sub>2</sub>/MMBtu);
- Use of a specialized sorbent in the dry sorbent injection system is expected to reduce SO<sub>2</sub> emissions 30% (on a rolling 30-day basis) for Wagner Unit 3; and
- Unit 4 will operate no more than 5% of the hours in any calendar year (438 hours), and will fire low-sulfur (0.3%) No. 6 oil.

### 3.1.3 C.P. Crane Units

C.P. Crane controls SO<sub>2</sub> emissions by means of burning lower sulfur coal than is currently permitted in tandem with a dry sorbent injection (DSI) system. For Crane, DSI has been known to decrease SO<sub>2</sub> by ~5-10%, depending on the quantity injected.

C.P. Crane's Unit 1 had between 12 and 19 startup and shut down events per year during the 2014 to 2016 period. Startup operations lasted between 9 and 36 hours for Unit 1. During the first half of startup, the fuel type is a co-firing natural gas and coal, with the second half of startup using only coal. During the same 3-year period (2014-2016), C.P. Crane's Unit 2 had between 21 and 29 start up and shut down events per year. Unit 2 startups lasted between 5 and 24 hours, with natural gas firing only for the first half of startup and coal only for the second half of the startup period.

### 3.1.4 Intermittent Sources

Intermittent sources and transient conditions such as emergency generators and auxiliary boilers were not modeled as explained in the March 2011 EPA guidance document<sup>4</sup> for modeling 1-hour NO<sub>2</sub> and SO<sub>2</sub>. These emission sources are of insufficient duration and frequency to affect NAAQS compliance as shown in Table 3-2.

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<sup>4</sup> [http://www3.epa.gov/scram001/guidance/clarification/Additional\\_Clarifications\\_AppendixW\\_Hourly-NO2-NAAQS\\_FINAL\\_03-01-2011.pdf](http://www3.epa.gov/scram001/guidance/clarification/Additional_Clarifications_AppendixW_Hourly-NO2-NAAQS_FINAL_03-01-2011.pdf)

**Table 3-1: Stack Parameters for Input to AERMOD**

Stack	Full-Load Stack Parameters			
	Stack Height (m)	Exit Diameter (m)	Exit Temperature (K)	Exit Velocity (m/s)
Crane Unit 1	107.59	3.328	435.93	30.48
Crane Unit 2	107.59	3.330	438.77	30.48
Brandon Shores Unit 1	121.92	9.53	324.817	15.073
Brandon Shores Unit 2	121.92	9.53	324.817	14.895
Brandon Shores Merged Stack	121.92	13.470	324.817	14.984
Wagner Unit 3	105.46	4.215	422.220	32.059
Wagner Unit 1	87.48	3.099	419.261	48.804
Wagner Unit 4	104.24	6.706	577.594	21.729
Wheelabrator	96.01	2.130	485.93	22.55

**Table 3-2 Hours of Operation for Auxiliary Sources**

Facility	Source Description	2016 Operating Hours	2016 SO <sub>2</sub> Emissions (tons)
Brandon Shores	#1 Auxiliary Boiler: Zurn (Model 18M Keystone) No. 2 oil fired boiler	6	0.0601
	#2 Auxiliary Boiler: Zurn (Model 18M Keystone) No. 2 oil fired boiler	0	0.0000
	2 Quench Pumps (500 HP diesel-fired internal combustion engine) that supply water to the flue gas desulfurization (FGD) system in emergencies	29.5	0.0010
	Emergency generator (670 HP diesel-fired internal combustion engine) to provide back-up power	5.7	0.0003
H.A. Wagner	Combustion turbine (No. 2 oil fired) used to supply “black start” capability to H.A. Wagner and for peaking operation	44.7	0.3700
Crane	#2 Auxiliary Boiler fired by No. 2 oil (ULSD) used for supplying steam rated at 25 MMBtu/hour	7	0.0280
	#3 Auxiliary Boiler fired by natural gas with No. 2 fuel (ULSD) as a back-up and used for supplying steam rated at 62.5 MMBtu/hour	0 hours Oil, 4,248 hours Gas	0.0800
	Combustion turbine rated at 14 MW (summer capability) fired by No. 2 oil (ULSD)	55	0.011
	600 HP Emergency Generator (ULSD)	7	3E-05



## 4. Modeling Procedures

### 4.1 Dispersion Model Selection

This modeling analysis utilized the current EPA-recommended version of the AERMOD dispersion model (Version 16216r) to evaluate air quality impacts from the emission sources of interest. The AERMOD modeling system consists of two preprocessors and the dispersion model. AERMET is the meteorological preprocessor component and AERMAP is the terrain pre-processor component that characterizes the terrain and generates receptor elevations along with critical hill heights for those receptors. Table 4-1 summarizes the versions of AERMOD and its preprocessors.

**Table 4-1 Versions of AERMOD and Its Preprocessors Used in Modeling Demonstration**

Dispersion Model and Preprocessors	Version No.
AERMOD	16216r
AERMET	16216
AERMINUTE	15272
AERSURFACE	13016
BPIP-PRIME	04274
AERMAP	11103

### 4.2 Land Use Classification

One of the factors affecting input parameters to dispersion models is the presence of either rural or urban conditions near the source site and the meteorological site(s). The choice of rural or urban for dispersion conditions at the source site depends upon the land use characteristics within 3 kilometers of the facility being modeled (Appendix W to 40 CFR Part 51)<sup>5</sup>. Factors that affect the rural/urban choice, and thus the dispersion, include the extent of vegetated surface area, the water surface area, types of industry and commerce, and building types and heights within this area.

#### 4.2.1 Land Use Analysis for the Fort Smallwood Complex

An objective analysis using the Auer Method was conducted using ArcGIS to extract the land use categories within a 3-km radius centered on the Fort Smallwood Complex using the digitized 2011 NLCD data. Figure 4-1 shows the land categories within 3 km of the Fort Smallwood Complex. EPA mentions in their comment that for sites that have over 50% of the land use categorized as water, this could skew the analysis and lead to an improper “rural” designation. Table 4-2 shows that 39.7% of the land use within the 3-km radius consists of open water, which is below the 50% threshold. The land types defined as rural under the Auer Land Use Method is approximately 85%.

In addition, the land use surrounding the Fort Smallwood Complex was examined while ignoring the areas classified as water. This secondary analysis yields approximately 75% of the land cover as rural, still well above the 50% criteria threshold (shown in Table 4-3).

For these reasons and because MDE has historically modeled the Fort Smallwood Complex as rural, we conclude that the designation of rural is appropriate for the modeling of the Fort Smallwood Complex for this application.

<sup>5</sup> EPA’s Guideline on Air Quality Models, available at [https://www3.epa.gov/ttn/scram/appendix\\_w/2016/AppendixW\\_2017.pdf](https://www3.epa.gov/ttn/scram/appendix_w/2016/AppendixW_2017.pdf).

**Table 4-2: Land Use Analysis with 2011 NLCD for Fort Smallwood Complex**

Ft. Smallwood Study Area Auer's Analysis				Ft. Smallwood 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	3,006	9.54%	15.02%
24	Developed, High Intensity	I1/I2/C1		1,726	5.48%	
11	Open Water	A5	Rural	12,501	39.67%	84.98%
21	Developed, Open Space	A1/R4		3,051	9.68%	
22	Developed, Low Intensity	R1		4,350	13.80%	
31	Barren Land (Rock/Sand/Clay)	A3		13	0.04%	
41	Deciduous Forest	A4		2,721	8.63%	
42	Evergreen Forest	A4		245	0.78%	
43	Mixed Forest	A4		1,184	3.76%	
52	Shrub/Scrub	A4		142	0.45%	
71	Grassland/Herbaceous	A3		0	0.00%	
81	Pasture/Hay	A3		0	0.00%	
82	Cultivated Crops	A2		78	0.25%	
90	Wood Wetlands	A4		2,092	6.64%	
95	Emergent Herbaceous Wetlands	A3	404	1.28%		
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			Total	31,513	100.00%	100.00%

**Table 4-3: Land Use Analysis with 2011 NLCD for Fort Smallwood Complex (Water Removed)**

Ft. Smallwood Study Area Auer's Analysis				Ft. Smallwood 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	3,006	15.81%	24.89%
24	Developed, High Intensity	I1/I2/C1		1,726	9.08%	
11	Open Water (ignored in analysis)	A5	Rural	NA	NA	75.11%
21	Developed, Open Space	A1/R4		3,051	16.05%	
22	Developed, Low Intensity	R1		4,350	22.88%	
31	Barren Land (Rock/Sand/Clay)	A3		13	0.07%	
41	Deciduous Forest	A4		2,721	14.31%	
42	Evergreen Forest	A4		245	1.29%	
43	Mixed Forest	A4		1,184	6.23%	
52	Shrub/Scrub	A4		142	0.75%	
71	Grassland/Herbaceous	A3		0	0.00%	
81	Pasture/Hay	A3		0	0.00%	
82	Cultivated Crops	A2		78	0.41%	
90	Wood Wetlands	A4		2,092	11.00%	
95	Emergent Herbaceous Wetlands	A3	404	2.12%		
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			Total	19,012	100.00%	100.00%

## 4.2.2 Land Use Analysis for C.P. Crane

An objective analysis using the Auer Method was conducted using ArcGIS to extract the land use categories within a 3-km radius centered on C.P. Crane using the digitized 2011 NLCD data. Figure 4-2 shows the land categories within 3 km of C.P. Crane. As in the case for Fort Smallwood, EPA mentions in their comment that for sites that have over 50% of the land use categorized as water, this could skew the analysis and lead to an improper “rural” designation. Table 4-4 shows that 45.5% of the land use within the 3 km radius consists of open water, which is below the 50% threshold. The land types defined as rural under the Auer Land Use Method is approximately 97%.

In addition, the land use surrounding C.P. Crane was examined while ignoring the areas classified as water. This secondary analysis yields approximately 95% of the land cover as rural, still well above the 50% criteria threshold (shown in Table 4-5).

For these reasons and because MDE has previously modeled C.P. Crane as rural, we conclude that the designation of rural is appropriate for the modeling of the C.P. Crane for this application.

**Table 4-4: Land Use Analysis with 2011 NLCD for C.P. Crane**

Crane Study Area Auer's Analysis				Crane 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	789	2.50%	2.94%
24	Developed, High Intensity	I1/I2/C1		139	0.44%	
11	Open Water	A5	Rural	14,328	45.46%	97.06%
21	Developed, Open Space	A1/R4		2,618	8.31%	
22	Developed, Low Intensity	R1		1,943	6.17%	
31	Barren Land (Rock/Sand/Clay)	A3		15	0.05%	
41	Deciduous Forest	A4		2,073	6.58%	
42	Evergreen Forest	A4		44	0.14%	
43	Mixed Forest	A4		1,379	4.38%	
52	Shrub/Scrub	A4		412	1.31%	
71	Grassland/Herbaceous	A3		84	0.27%	
81	Pasture/Hay	A3		37	0.12%	
82	Cultivated Crops	A2		841	2.67%	
90	Wood Wetlands	A4		3,203	10.16%	
95	Emergent Herbaceous Wetlands	A3		3,611	11.46%	
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			Total	31,516	100.00%	100.00%

**Table 4-5: Land Use Analysis with 2011 NLCD for C.P. Crane (Water Removed)**

Crane Study Area Auer's Analysis				Crane 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	789	4.59%	5.40%
24	Developed, High Intensity	I1/I2/C1		139	0.81%	
11	Open Water (ignored in analysis)	A5	Rural	NA	NA	94.60%
21	Developed, Open Space	A1/R4		2,618	15.23%	
22	Developed, Low Intensity	R1		1,943	11.30%	
31	Barren Land (Rock/Sand/Clay)	A3		15	0.09%	
41	Deciduous Forest	A4		2,073	12.06%	
42	Evergreen Forest	A4		44	0.26%	
43	Mixed Forest	A4		1,379	8.02%	
52	Shrub/Scrub	A4		412	2.40%	
71	Grassland/Herbaceous	A3		84	0.49%	
81	Pasture/Hay	A3		37	0.22%	
82	Cultivated Crops	A2		841	4.89%	
90	Wood Wetlands	A4		3,203	18.64%	
95	Emergent Herbaceous Wetlands	A3		3,611	21.01%	
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			Total	17,188	100.00%	100.00%

## 4.3 Good Engineering Practice (GEP) Analysis

Federal stack height regulations limit the stack height used in performing dispersion modeling to predict the air quality impact of a source for purposes of setting a new emission limit for stacks placed into operation after 1970. Sources must be modeled at the actual physical stack height unless that height exceeds the Good Engineering Practice (GEP) formula stack height. If the physical stack height is less than the formula GEP height, the potential for the source's plume to be affected by aerodynamic wakes created by the building(s) must be evaluated in the dispersion modeling analysis.

A GEP formula stack height analysis has been performed for sources of interest located at the Brandon Shores, Wagner, C.P. Crane Generating Stations, and Wheelabrator in accordance with the EPA's "Guideline for Determination of Good Engineering Practice Stack Height" (EPA, 1985)<sup>6</sup>. A GEP stack height is defined as the greater of 65 meters (213 feet), measured from the ground elevation of the stack, or the formula height ( $H_g$ ), as determined from the following equation:

$$H_g = H_B + 1.5 L$$

where

$H_B$  is the height of the nearby structure which maximizes  $H_g$ , and

$L$  is the lesser dimension (height or projected width) of the building ( $H_B$ ).

For a squat structure, i.e., height less than projected width, the formula reduces to:

$$H_g = 2.5H_B$$

In the absence of influencing structures, a "default" GEP stack height is credited up to 65 meters (213 feet). Both the height and the width of the building are determined through a vertical cross-section perpendicular to the wind direction. In all instances, the GEP formula height is based upon the highest value of  $H_g$  as determined from  $H$  and  $L$  over all nearby buildings over the entire range of possible wind directions. For the purposes of determining the GEP formula height, only buildings within  $5L$  of the source of interest are considered. The stacks to be included in the modeling demonstration and their commission dates are presented in Table 4-6.

**Table 4-6: Stack Commission Dates**

Facility	Stack	Commission Date
<b>C.P. Crane</b>	Unit 1	July 1961
	Unit 2	February 1963
<b>Brandon Shores</b>	Dual-flue FGD Units 1 & 2	2010
<b>H.A. Wagner</b>	Unit 1	February 1956
	Unit 2	January 1959
	Unit 3	August 1966
	Unit 4	August 1972
<b>Wheelabrator</b>	Incinerator	1985

The GEP analyses were conducted with the latest version of the US EPA's Building Profile Input Program software (BPIP-PRIME version 04274). The locations and dimensions of the buildings/structures relative to the exhaust stacks for Brandon Shores, Wagner, C.P. Crane Generating Stations, and Wheelabrator are depicted in Figures 4-3 through 4-6. Building heights and the base elevations of buildings and stacks

<sup>6</sup> Available at <http://www.epa.gov/scram001/guidance/guide/gep.pdf>.

were updated from previous modeling based on 2004 and 2014 USGS LIDAR data<sup>7</sup> and confirmed with Google Earth Pro (shown in Figures 4-7 and 4-9) for the Fort Smallwood Complex and Wheelabrator. 3D representations of the buildings and stacks as output from BPIP-PRIME are shown in Figures 4-10 and 4-12. Historical LIDAR data are not available for the area near C.P. Crane, likely due to its proximity to Aberdeen Proving Ground.

## 4.4 Meteorological Data Processing

The meteorological data required for input to AERMOD was created with the latest version of AERMET (16216) using the adjusted u\* option. This option is now a default option per the recently promulgated Appendix W. Hourly surface observations from Baltimore-Washington International Airport, MD along with concurrent upper air data from Sterling, VA was used as input to AERMET with both 1-minute and 5-minute wind speed and direction data incorporated in AERMET Stage 2. The surface data (wind direction, wind speed, temperature, sky cover, and relative humidity) is measured 10 m above ground level<sup>8</sup>. The location of the anemometer in decimal degrees is 39.1733°N 76.6841°W. A wind rose for 2012-2016 is shown in Figure 4-13.

AERMET creates two output files for input to AERMOD:

- **SURFACE:** a file with boundary layer parameters such as sensible heat flux, surface friction velocity, convective velocity scale, vertical potential temperature gradient in the 500-meter layer above the planetary boundary layer, and convective and mechanical mixing heights. Also provided are values of Monin-Obukhov length, surface roughness, albedo, Bowen ratio, wind speed, wind direction, temperature, and heights at which measurements were taken.
- **PROFILE:** a file containing multi-level meteorological data with wind speed, wind direction, temperature, sigma-theta ( $\sigma_\theta$ ) and sigma-w ( $\sigma_w$ ) when such data are available. For this application involving representative data from the nearest NWS station, the profile file contained a single level of wind data and the temperature data.

AERMET requires specification of site characteristics including surface roughness ( $z_o$ ), albedo ( $r$ ), and Bowen ratio ( $B_o$ ). These parameters were developed according to the guidance provided by US EPA in the recently revised AERMOD Implementation Guide<sup>9</sup> (AIG).

The AIG provides the following recommendations for determining the site characteristics:

1. The determination of the surface roughness length should be based on an inverse distance weighted geometric mean for a default upwind distance of 1 kilometer relative to the measurement site. Surface roughness length may be varied by sector to account for variations in land cover near the measurement site; however, the sector widths should be no smaller than 30 degrees.
2. The determination of the Bowen ratio should be based on a simple un-weighted geometric mean (i.e., no direction or distance dependency) for a representative domain, with a default domain defined by a 10-km by 10-km region centered on the measurement site.
3. The determination of the albedo should be based on a simple un-weighted arithmetic mean (i.e., no direction or distance dependency) for the same representative domain as defined for Bowen ratio, with a default domain defined by a 10-km by 10-km region centered on the measurement site.

The AIG recommends that the surface characteristics be determined based on digitized land cover data. EPA has developed a tool called AERSURFACE that can be used to determine the site characteristics

<sup>7</sup> <http://earthexplorer.usgs.gov/> under Digital Elevation/LIDAR.

<sup>8</sup> Anemometer height obtained from National Weather Service ASOS Implementation site. <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

<sup>9</sup> Available at [https://www3.epa.gov/ttn/scram/7thconf/aermod/aermod\\_implmnt\\_guide\\_3August2015.pdf](https://www3.epa.gov/ttn/scram/7thconf/aermod/aermod_implmnt_guide_3August2015.pdf).

based on digitized land cover data in accordance with the recommendations from the AIG discussed above. AERSURFACE<sup>10</sup> incorporates look-up tables of representative surface characteristic values by land cover category and seasonal category. AERSURFACE was applied with the instructions provided in the AERSURFACE User's Guide.

At the direction of the reviewing agencies, a sensitivity analysis was conducted to determine the representativeness of the BWI airport surface characteristics to those at C.P. Crane and Fort Smallwood. To determine the representativeness of the BWI airport site for surface characteristics in comparison to the area surrounding Fort Smallwood, AERSURFACE was applied for a single 1-km sector around three sites (C.P. Crane, Fort Smallwood and BWI airport) using average moisture conditions. The results of the three AERSURFACE runs are presented in Table 4-7. Table 4-7 shows that the albedo values are very similar between the three sites. There is some variation in the Bowen ratios and surface roughness at the different sites. The surface roughness values are all relatively low (less than 0.16 meters), with BWI having a surface roughness value between C.P. Crane and Fort Smallwood.

Based on results of the sensitivity analysis, the modeling used monthly surface roughness and albedo from the BWI airport, with the Bowen ratio from Fort Smallwood. The annual values for comparison between the three sites are highlighted blue in Table 4-7.

**Table 4-7: AERSURFACE Land Use Comparison**

Site	Annual Average Land Use		
	Albedo	Bowen Ratio	Z <sub>0</sub> (m)
BWI Airport	0.16	0.76	0.051
C.P. Crane	0.13	0.22	0.024
Fort Smallwood	0.13	0.33	0.157

The current version of AERSURFACE (Version 13016) supports the use of land cover data from the USGS National Land Cover Data 1992 archives<sup>11</sup> (NLCD92). The NLCD92 archive provides data at a spatial resolution of 30 meters based upon a 21-category classification scheme applied over the continental U.S. The AIG recommends that the surface characteristics be determined based on the land use surrounding the site where the surface meteorological data were collected.

As recommended in the AIG for surface roughness, the 1-km radius circular area centered at the meteorological station site can be divided into sectors for the analysis; the default 12 sectors will be used for this analysis.

In AERSURFACE, the various land cover categories are linked to a set of seasonal surface characteristics. As such, AERSURFACE requires specification of the seasonal category for each month of the year. The following five seasonal categories are supported by AERSURFACE, with the applicable months of the year specified for this site.

1. Midsummer with lush vegetation (June-August).
2. Autumn with un-harvested cropland (September- November).
3. Late autumn after frost and harvest, or winter with no snow (December - February)
4. Winter with continuous snow on ground (none).
5. Transitional spring with partial green coverage or short annuals (March - May).

<sup>10</sup> Documentation available at [http://www.epa.gov/ttn/scram/dispersion\\_related.htm#aersurface](http://www.epa.gov/ttn/scram/dispersion_related.htm#aersurface).

<sup>11</sup> See additional information at <http://landcover.usgs.gov/natl/landcover.php>.

AECOM reviewed snow cover data<sup>12</sup> for BWI during the 2012-2016 period to determine if any winter month had snow cover for more than half of the days in the month. BWI reported only eight (non-consecutive) days with snow cover in January 2014 (26% of the month), and seven (consecutive) days in February 2014 (25% of the month). During 2015, however, February had 14 days with snow cover, qualifying this month to be characterized as “winter with continuous snow on ground”. Therefore, a separate AERSURFACE run was conducted to account for this month for snow cover in 2015. The two runs were then concatenated together to represent each month’s characterization correctly.

For Bowen ratio, the land use values are linked to three categories of surface moisture corresponding to average, wet, and dry conditions. The surface moisture condition for the site may vary depending on the meteorological data period for which the surface characteristics will be applied. AERSURFACE applies the surface moisture condition for the entire data period. Therefore, if the surface moisture condition varies significantly across the data period, then AERSURFACE can be applied multiple times to account for those variations.

As such, the surface moisture condition for each season was determined by comparing precipitation for the period of data to be processed to the 30-year climatological record, selecting “wet” conditions if precipitation is in the upper 30<sup>th</sup>-percentile, “dry” conditions if precipitation is in the lower 30<sup>th</sup>-percentile, and “average” conditions if precipitation is in the middle 40<sup>th</sup>-percentile. The 30-year precipitation data set used in this modeling was taken from the National Climatic Data Center<sup>13</sup>.

The monthly designations of surface moisture that were input to AERSURFACE are summarized in Table 4-8.

**Table 4-8: AERSURFACE Bowen Ratio Condition Designations**

Month	Bowen Ratio Category				
	2012	2013	2014	2015	2016
January	Dry	Average	Average	Wet	Average
February	Average	Dry	Wet	Average	Wet
March	Dry	Average	Average	Average	Dry
April	Dry	Dry	Wet	Wet	Dry
May	Dry	Average	Average	Dry	Wet
June	Average	Wet	Average	Wet	Average
July	Average	Dry	Average	Average	Wet
August	Wet	Dry	Wet	Dry	Average
September	Dry	Dry	Average	Average	Average
October	Wet	Wet	Average	Average	Dry
November	Dry	Average	Average	Average	Dry
December	Average	Wet	Average	Wet	Average

## 4.5 Model Receptor Grid and Terrain

Receptors are placed in nested Cartesian grids centered on the Fort Smallwood Complex and C.P. Crane with the following spacing:

<sup>12</sup> <http://www.ncdc.noaa.gov/snow-and-ice/daily-snow/>

<sup>13</sup> <http://www.ncdc.noaa.gov/cdo-web/>



- Every 25 meters along the ambient boundary,
- Every 100 meters out to a distance of 15 km, and
- Every 500 meters between 15 and 25 km.

The receptor grid used in the modeling is consistent to what was described in the approved modeling protocol. The current version of AERMAP has the ability to process USGS National Elevation Dataset (NED) data in place of Digital Elevation Model files. The appropriate file for 1-arc-second, or 30-m, NED data was obtained from the Multi-Resolution Land Characteristics Consortium (MRLC) link at <https://viewer.nationalmap.gov/viewer/>. AERMAP assigns elevation heights and critical hill heights to each receptor based on the terrain dataset. The receptor grid is shown in Figures 4-14, 4-15 and 4-16.

Receptors were not placed on Talen Energy property that is not accessible to the public. Public access is restricted along the property boundary for the H.A. Wagner and Brandon Shores Power Plants by: 1) a physical fence (including gates) as denoted by the yellow lines in Figure 4-17 and 2) no trespassing signs along the orange lines in Figure 4-17 that extends the immediate waters alongside the fuel unloading pier.

Receptors were not placed on C.P. Crane property that is not accessible to the public. Public access is restricted along the property boundary for the C.P. Crane Generating Station by: 1) a physical fence (including gates) as denoted by the yellow lines in Figure 4-18 and 2) a retaining wall prevents public vessels from entering the nearby waters of C.P. Crane as denoted by the light green line in Figure 4-18. A close-up photo taken just offshore shows the retaining wall from a different angle in Figure 4-19.

With multiple sources included as part of the proposed modeling demonstration, a supplemental analysis was performed to ensure there are no NAAQS violations occurring within the ambient air boundary at Fort Smallwood Complex from C.P. Crane sources and within C.P. Crane's ambient air boundary from sources at the Fort Smallwood Complex. To accomplish this, receptors were placed on C.P. Crane's property and all modeled sources (excluding C.P. Crane stacks) were modeled at these receptors to ensure there is not a NAAQS violation. Additionally, receptors were placed on Fort Smallwood's property and all modeled sources (excluding Brandon Shores and H.A. Wagner stacks) were at these receptors to ensure there is not a NAAQS violation. The modeling files that support this demonstration are included in the model archive.

## 4.6 Model Configurations and Options

AERMET (version 16216) and AERMOD (version 16216r) was run with the updated "ADJ\_U\*" option in AERMET and the DEFAULT option in AERMOD to use the ADJ\_U\* meteorological data. Appendix W states, "EPA is adopting the proposed ADJ\_U\* option in AERMET as a regulatory option for the use in AERMOD for sources using standard NWS airport meteorological data, site-specific meteorological data without turbulence parameters, or prognostic meteorological inputs derived from prognostic meteorological models." For this modeling demonstration, standard NWS airport meteorological data from the Baltimore-Washington International (BWI) Airport and the ADJ\_U\* option is appropriate.

## 4.7 Background Concentrations

The HU-Beltsville, MD monitor (Site #24-033-0030), which is located about 33 km to the southwest of the Fort Smallwood Complex and 52 km southwest of C.P. Crane, in Prince Georges County, was used to determine the uniform regional background component for the NAAQS SO<sub>2</sub> modeling. EPA's March 2011 clarification memo<sup>14</sup> regarding 1-hour SO<sub>2</sub> NAAQS modeling allows for an approach using the 99<sup>th</sup> percentile monitored values whereby the background values vary by season and by hour of the day. AECOM applied this approach to its modeling, using data from the 3-year period of 2014 – 2016 to be added to the three years of modeled concentrations. The SO<sub>2</sub> concentrations that were used are listed in Table 4-9. Figure 4-20 shows a plot of the hourly background values by season and hour.

<sup>14</sup> Available at [http://www.epa.gov/ttn/scram/guidance/clarification/Additional\\_Clarifications\\_AppendixW\\_Hourly-NO2-NAAQS\\_FINAL\\_03-01-2011.pdf](http://www.epa.gov/ttn/scram/guidance/clarification/Additional_Clarifications_AppendixW_Hourly-NO2-NAAQS_FINAL_03-01-2011.pdf).



According to the EPA's "Table 5c Monitoring Site Listing for Sulfur Dioxide 1-Hour NAAQS" ([https://www.epa.gov/sites/production/files/2016-07/so2\\_designvalues\\_20132015\\_final\\_07\\_29\\_16.xlsx](https://www.epa.gov/sites/production/files/2016-07/so2_designvalues_20132015_final_07_29_16.xlsx)), the 75% data completeness criteria for 2014 through 2016 (Column W) is satisfied with all years above 94%, therefore, the HU-Beltsville 1-hour SO<sub>2</sub> monitoring data is sufficiently complete and is acceptable to use in the modeling.

One direction sector that is unique to the Fort Smallwood site involves winds generally from the east (upwind sector from 70 to 130 degrees), for which the upwind fetch involves approximately 20 kilometers over open water, and then at least 10 additional km further to the east with no large SO<sub>2</sub> sources on the eastern shore of the Chesapeake Bay before reaching Fort Smallwood. For this sector only, AECOM included a sector-dependent background concentration, as described in EPA's September 2014 Clarification Memo<sup>15</sup>. The AERMOD User's Guide Addendum<sup>16</sup> states that such sectors should be 60 degrees or more (a warning will be issued for sectors less than 60 degrees).

AECOM reviewed SO<sub>2</sub> monitoring data at the Horn Point ambient monitor in Dorchester County for when wind directions at the Horn Point anemometer are between 70° and 130° (a visual of this sector is shown in Figure 4-21). A 3-year (2014-2016) 99<sup>th</sup> percentile design value from Horn Point was used in place of the HU-Beltsville monitoring data for this defined sector. The Horn Point design 3-year design value during this period was calculated using only hours when winds at this monitor were between 70° and 130°. This yielded a preliminary design value of 2.5 ppb. The 2014 design value is 4.7 ppb, the 2015 design value is 2 ppb, and the 2016 design value is 1 ppb, showing a downward trend over the three year period. The 2017 hourly SO<sub>2</sub> data through September shows similar values to 2016, with a design value over all hours and wind directions to be 1 ppb. AECOM used the value (2.5 ppb) for the overwater sector, with the Beltsville monitor hour-of-day/seasonal values used for all other directions. Figure 4-20 shows the 2.5 ppb (6.55 µg/m<sup>3</sup>) from Horn Point plotted against the season hour-of-day 3-year average value for HU-Beltsville.

The 2014-2016 ambient SO<sub>2</sub> background measurement data were obtained from EPA's Air Quality System Data Mart (AQSDM)<sup>17</sup>.

The final background input file read by AERMOD was specified as hourly values. Most of the hourly values used the 3-year averaged seasonal numbers from HU-Beltsville. For hours when the wind from BWI was between 70° and 130°, the 3-year design value (2.5 ppb) from Horn Point as discussed above was used.

<sup>15</sup> [http://www3.epa.gov/scram001/guidance/clarification/NO2\\_Clarification\\_Memo-20140930.pdf](http://www3.epa.gov/scram001/guidance/clarification/NO2_Clarification_Memo-20140930.pdf)

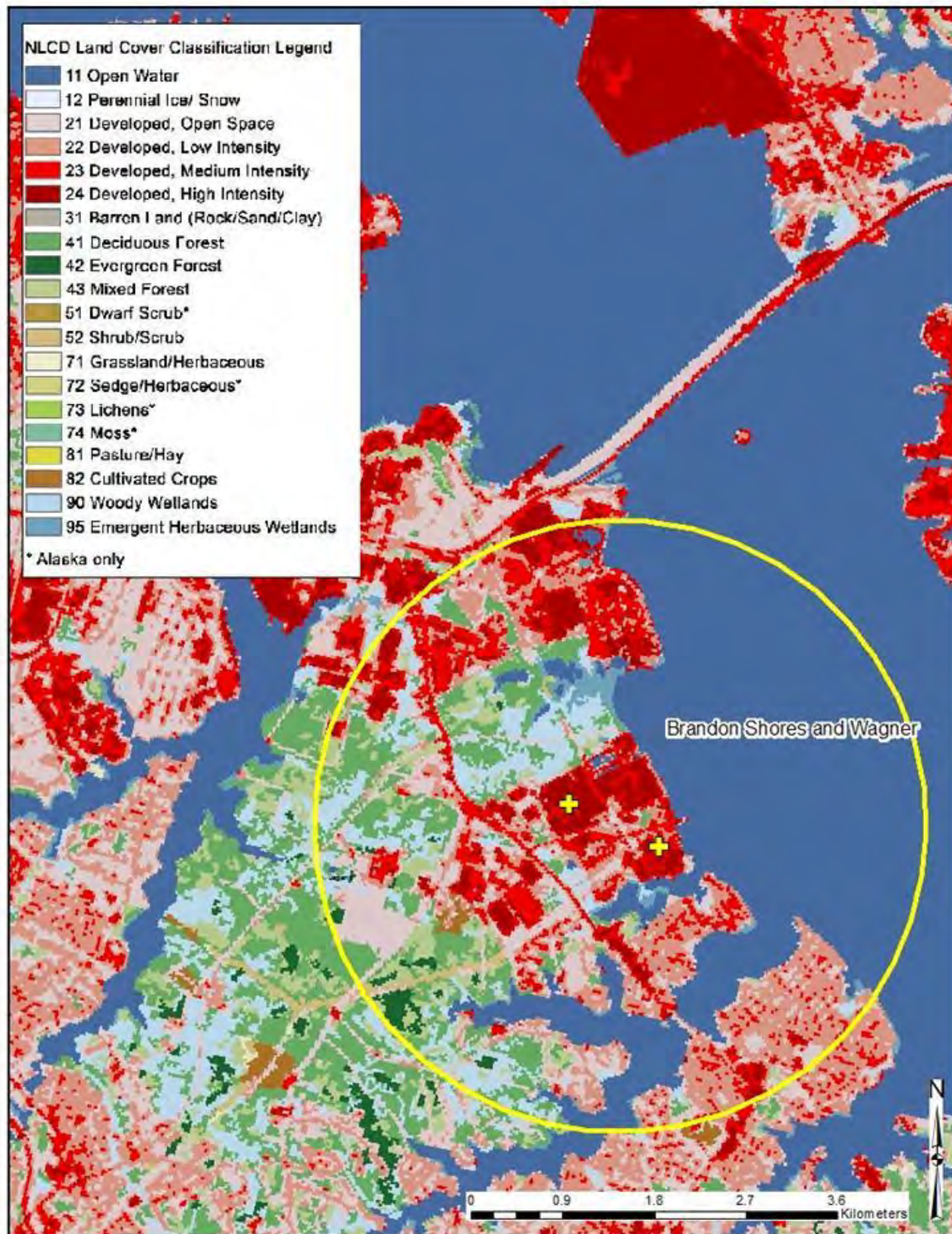
<sup>16</sup> [http://www.epa.gov/ttn/scram/models/aermod/aermod\\_userguide.zip](http://www.epa.gov/ttn/scram/models/aermod/aermod_userguide.zip)

<sup>17</sup> Air Quality System Data Mart. [https://aqs.epa.gov/aqsweb/documents/data\\_mart\\_welcome.html](https://aqs.epa.gov/aqsweb/documents/data_mart_welcome.html).

**Table 4-9: 1-hr SO<sub>2</sub> Ambient Background Concentrations for Beltsville Monitor (2014-2016)**

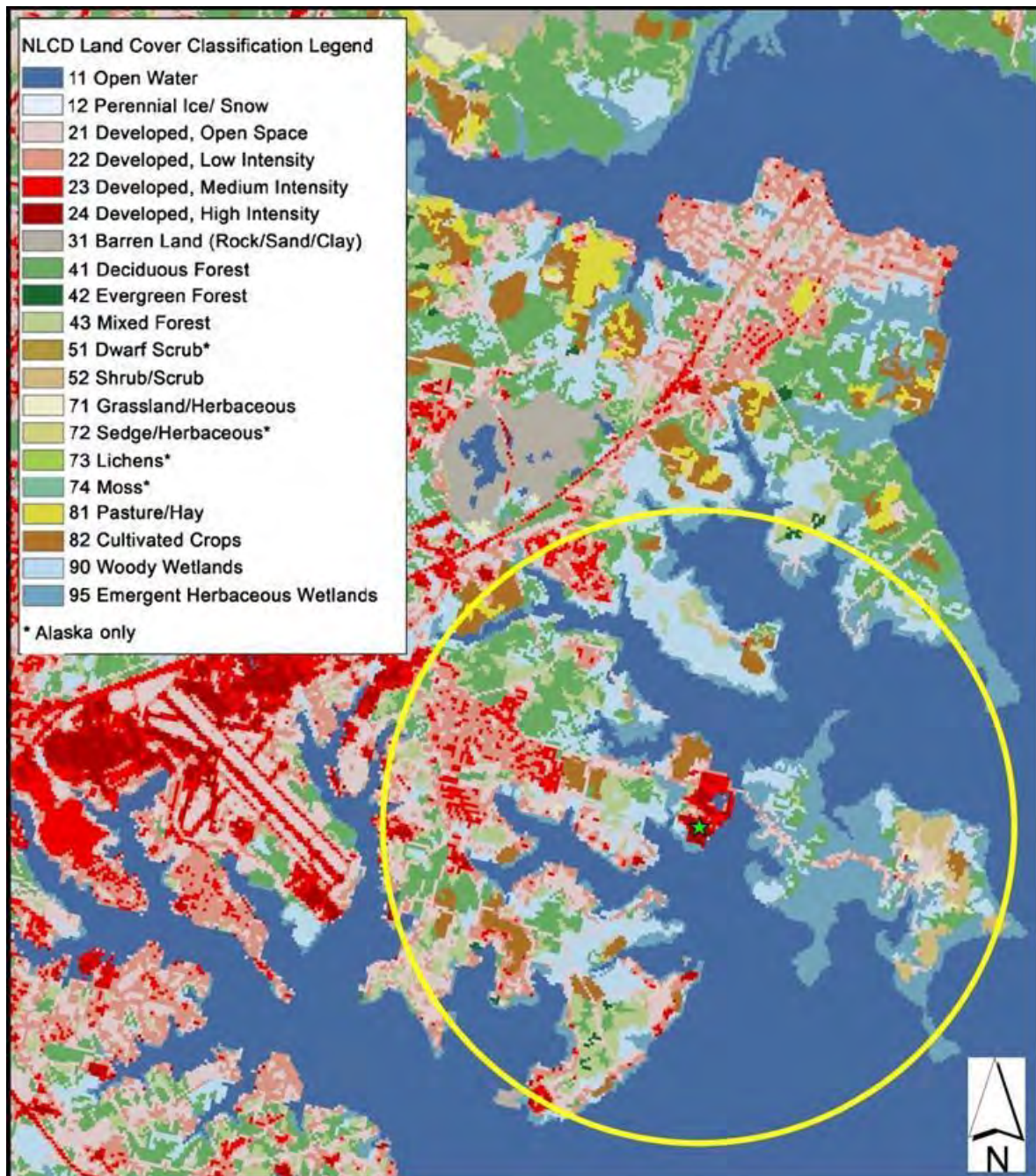
Hour	3-Year Averaged Hourly Values for Winter (µg/m <sup>3</sup> )	3-Year Averaged Hourly Values for Spring (µg/m <sup>3</sup> )	3-Year Averaged Hourly Values for Summer (µg/m <sup>3</sup> )	3-Year Averaged Hourly Values for Fall (µg/m <sup>3</sup> )
1	6.72	3.49	1.40	4.02
2	5.41	4.54	1.57	2.88
3	9.26	4.98	1.31	2.18
4	8.12	4.45	1.31	2.27
5	8.03	4.54	1.57	2.53
6	9.61	3.93	1.66	2.27
7	9.34	4.37	3.41	2.36
8	9.43	4.45	5.76	4.02
9	9.78	6.55	5.85	7.07
10	12.75	6.20	6.46	7.34
11	12.31	7.25	8.56	6.29
12	13.62	10.31	6.03	8.38
13	12.05	9.96	3.93	9.00
14	13.01	9.43	3.23	7.51
15	10.74	7.95	2.36	5.85
16	11.53	8.82	2.62	4.72
17	10.65	5.50	2.18	5.58
18	9.61	4.80	2.71	4.80
19	8.65	4.10	1.57	3.93
20	12.66	7.07	1.48	2.88
21	9.08	5.76	1.75	2.97
22	8.73	6.29	1.48	3.14
23	7.42	4.98	1.40	3.93
24	6.81	3.58	1.75	4.63

**Figure 4-1: 2011 National Land Cover Database (NLCD) within 3 km of the Fort Smallwood Complex**

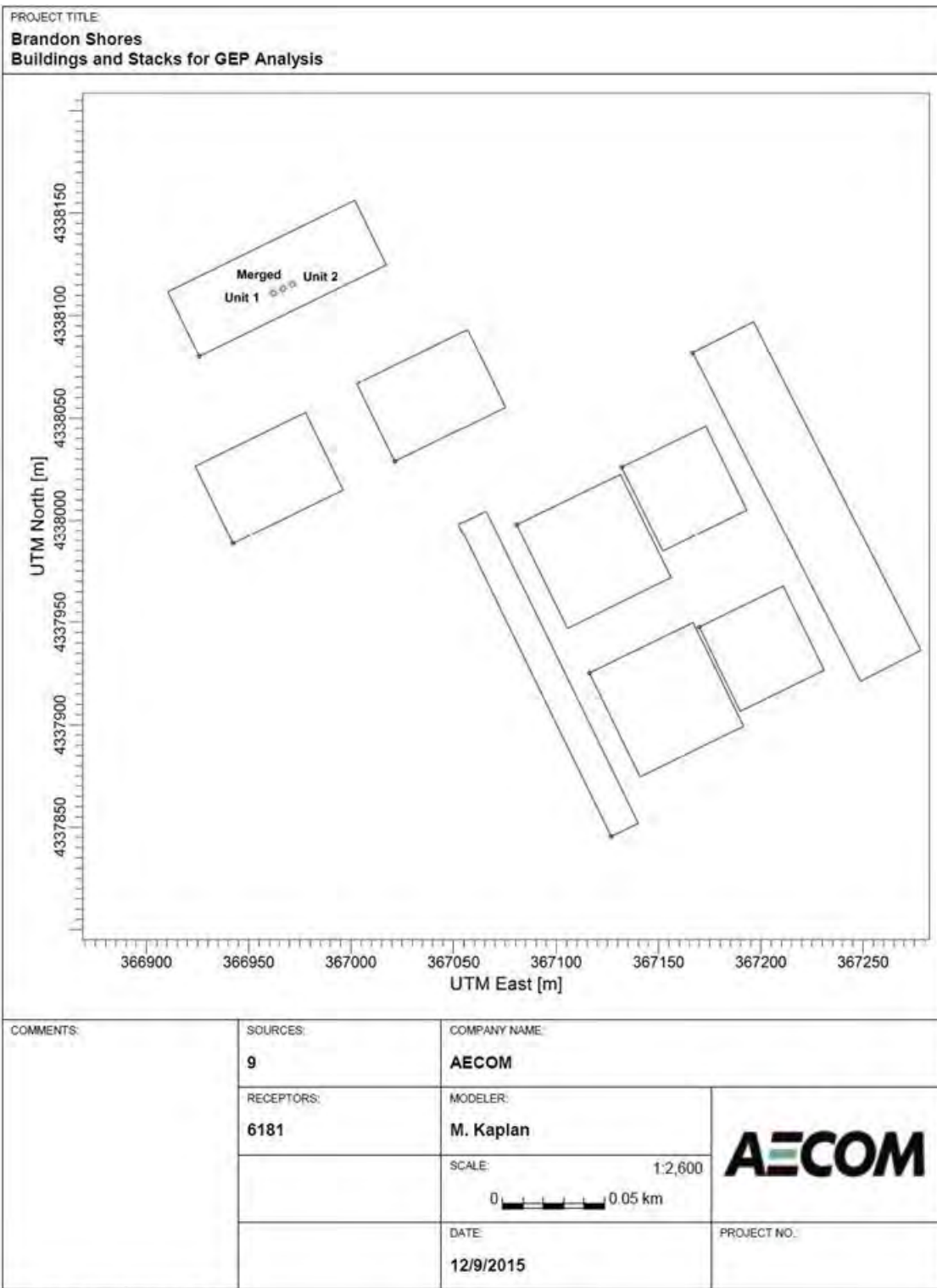




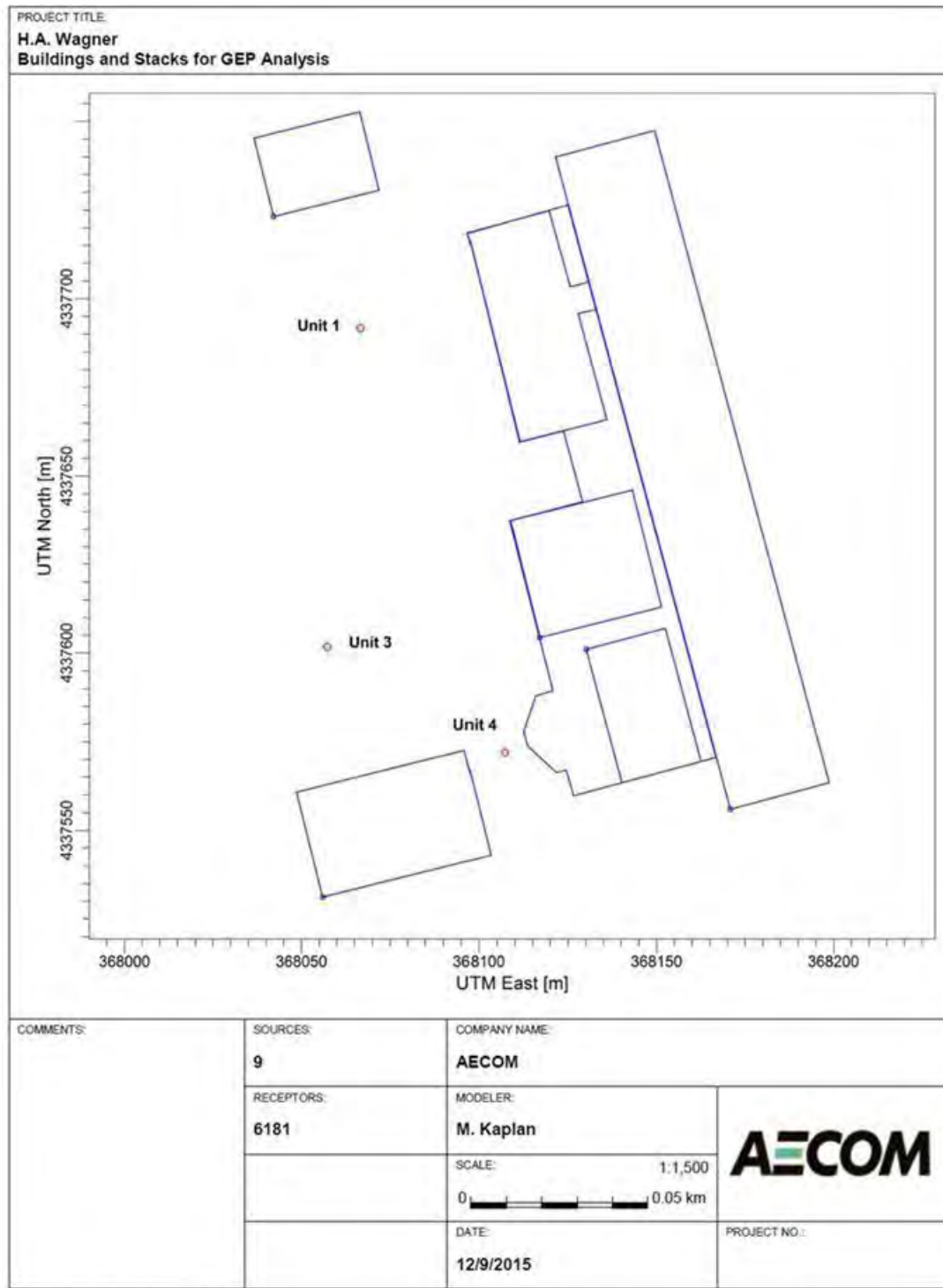
**Figure 4-2: 2011 Land Cover Classification within 3 Kilometers of Crane Generating Station**



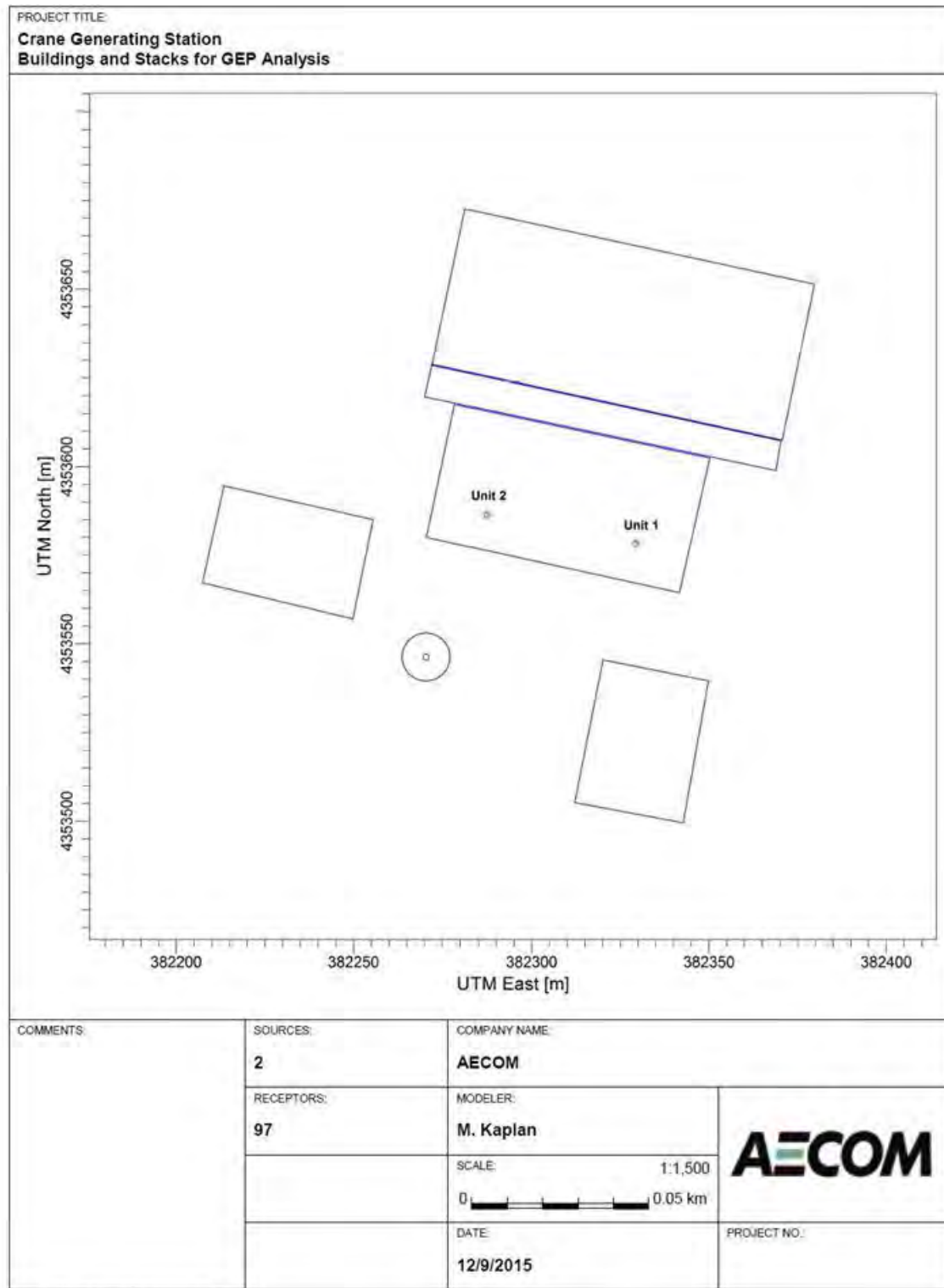
**Figure 4-3: Stacks and Buildings Used in the GEP Analysis for Brandon Shores**



**Figure 4-4: Stacks and Buildings Used in the GEP Analysis for H.A. Wagner**

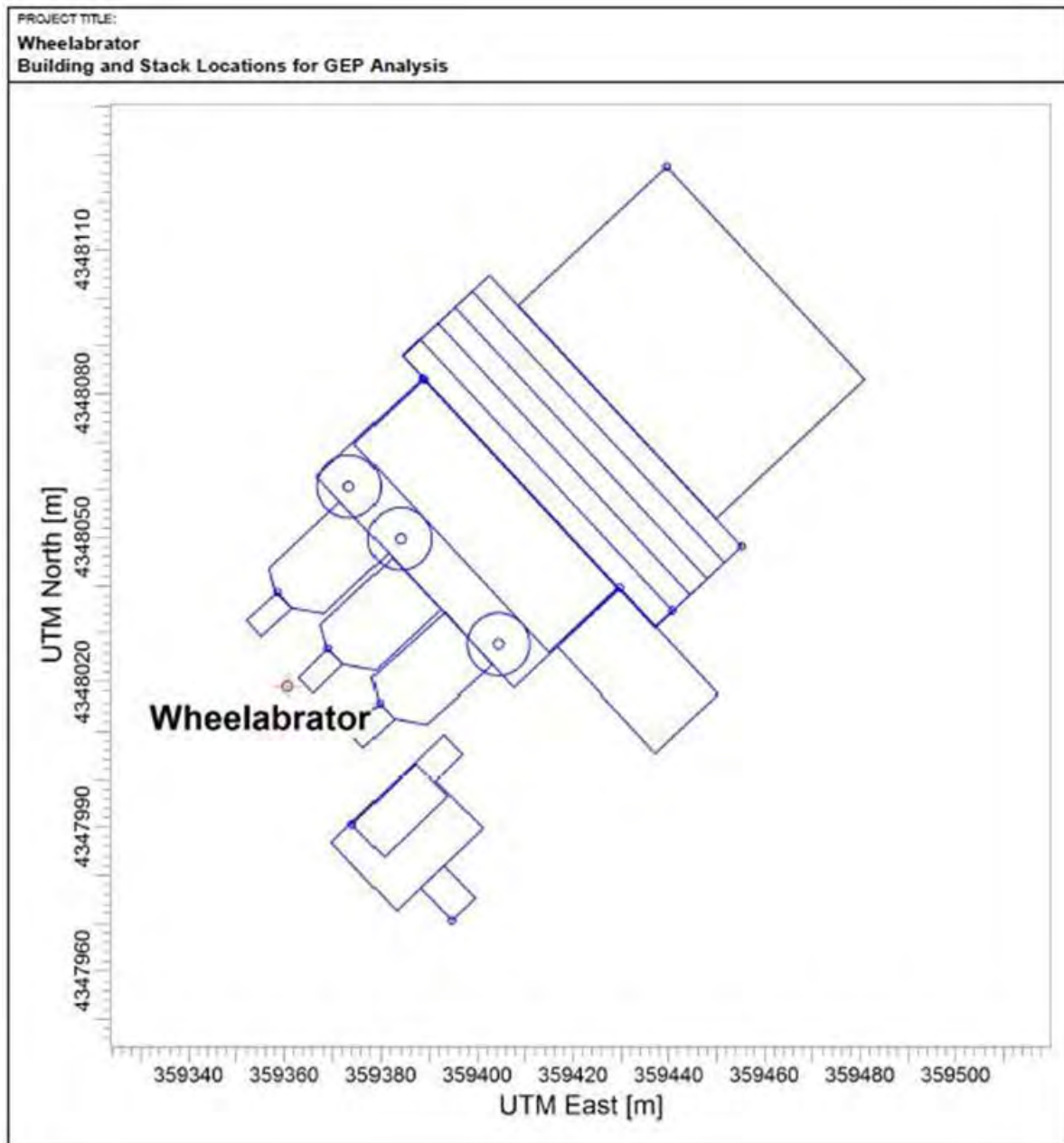


**Figure 4-5: Stacks and Buildings Used in the GEP Analysis for Crane Generating Station**



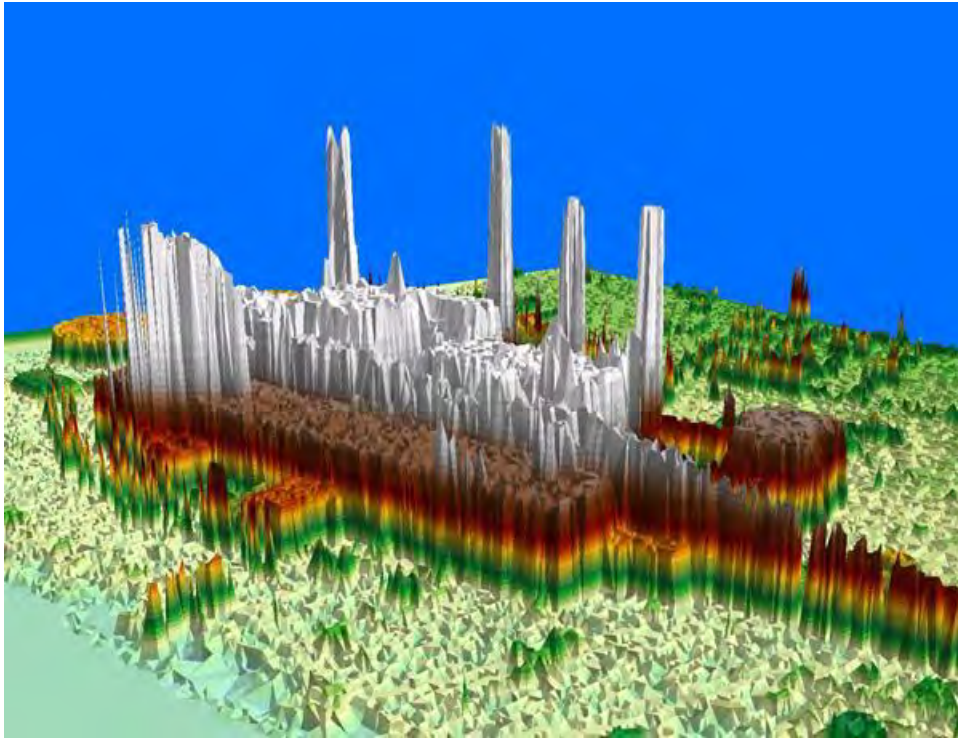


**Figure 4-6: Stacks and Buildings Used in the GEP Analysis for Wheelabrator-Baltimore**





**Figure 4-7: USGS LIDAR Data for Wagner Station**



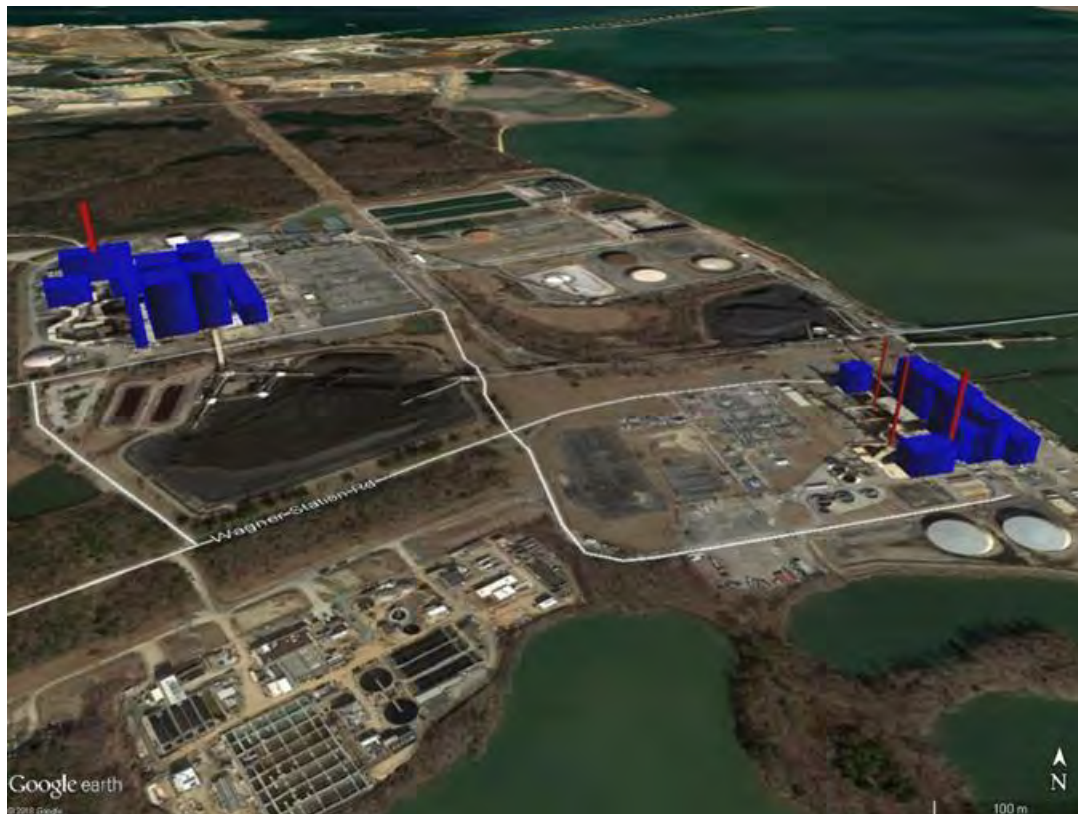
**Figure 4-8: USGS LIDAR Data for Brandon Shores**



**Figure 4-9: USGS LIDAR Data for Wheelabrator-Baltimore**



**Figure 4-10: 3D View of Brandon Shores and Wagner Buildings and Stacks**

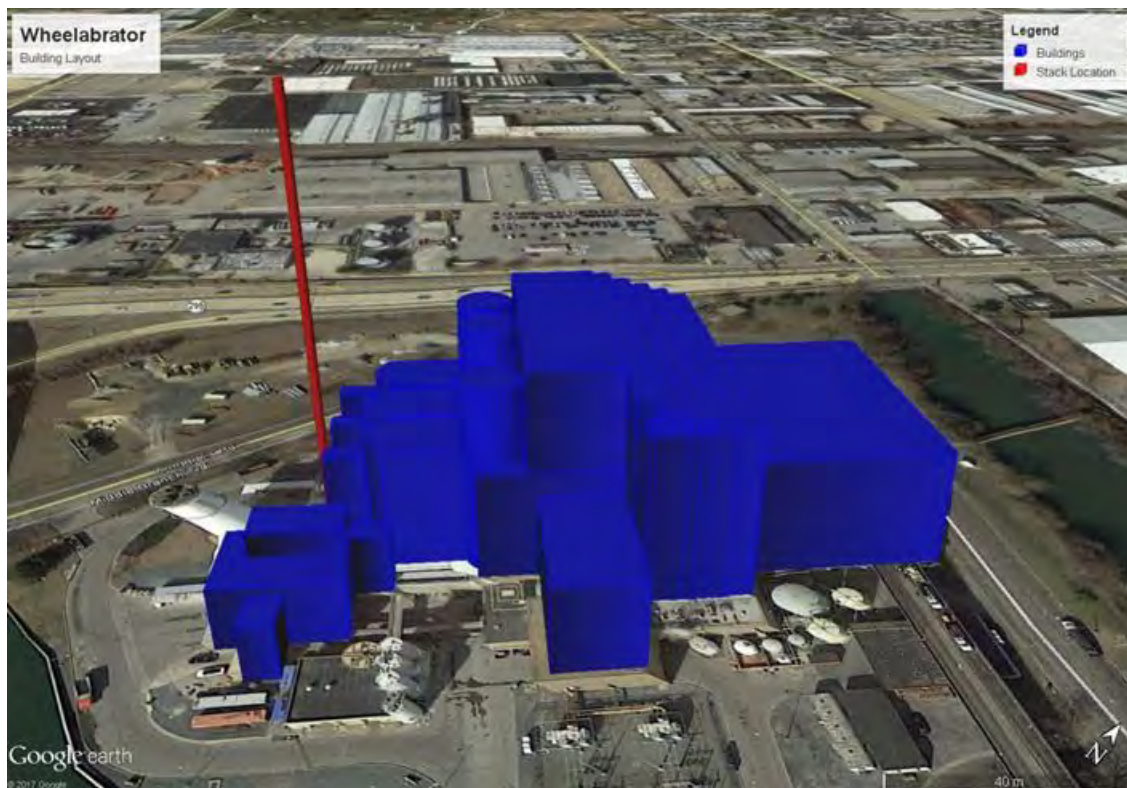




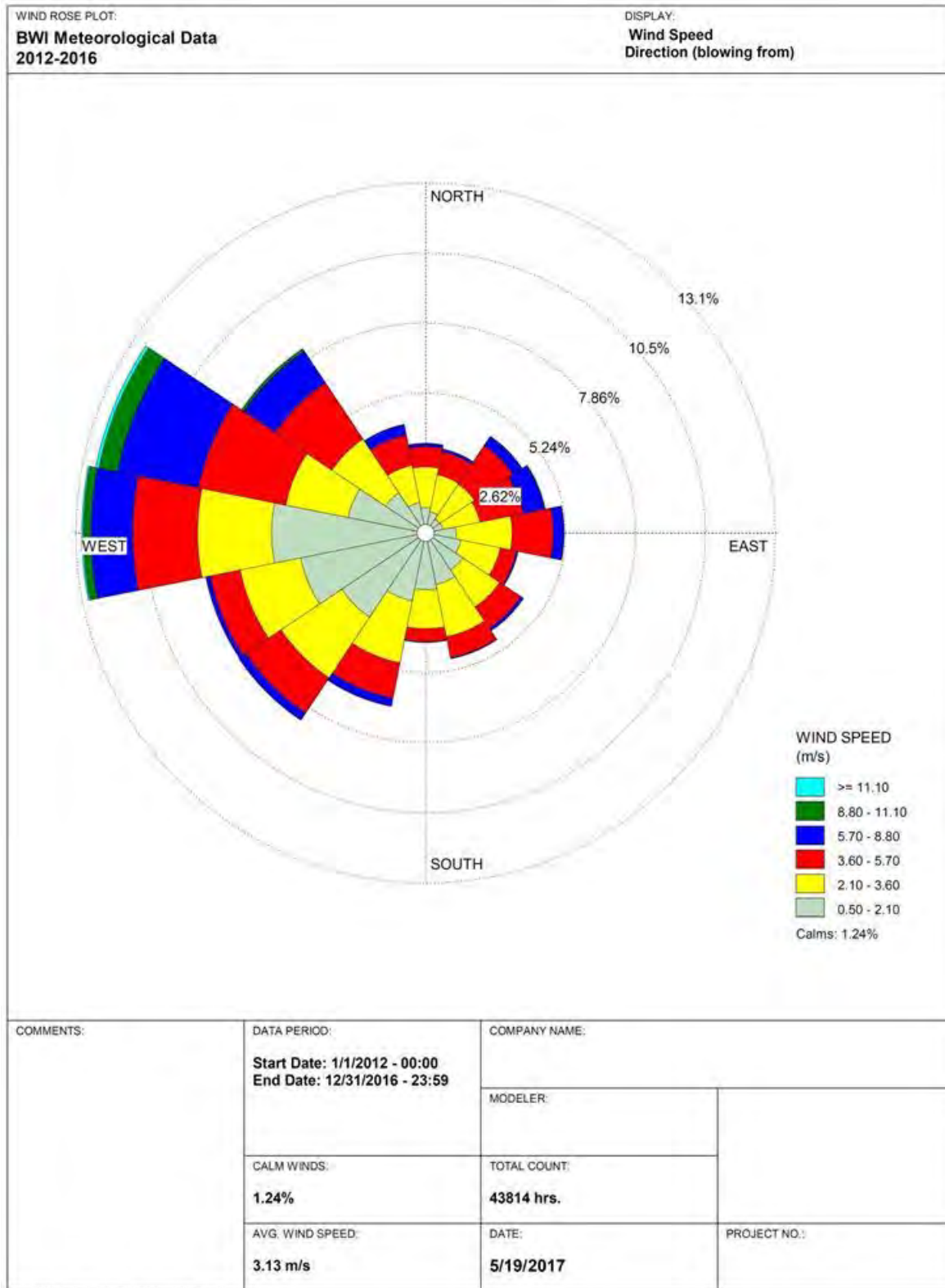
**Figure 4-11: 3D View of Crane Buildings and Stacks**



**Figure 4-12: 3D View of Wheelabrator-Baltimore Buildings and Stack**

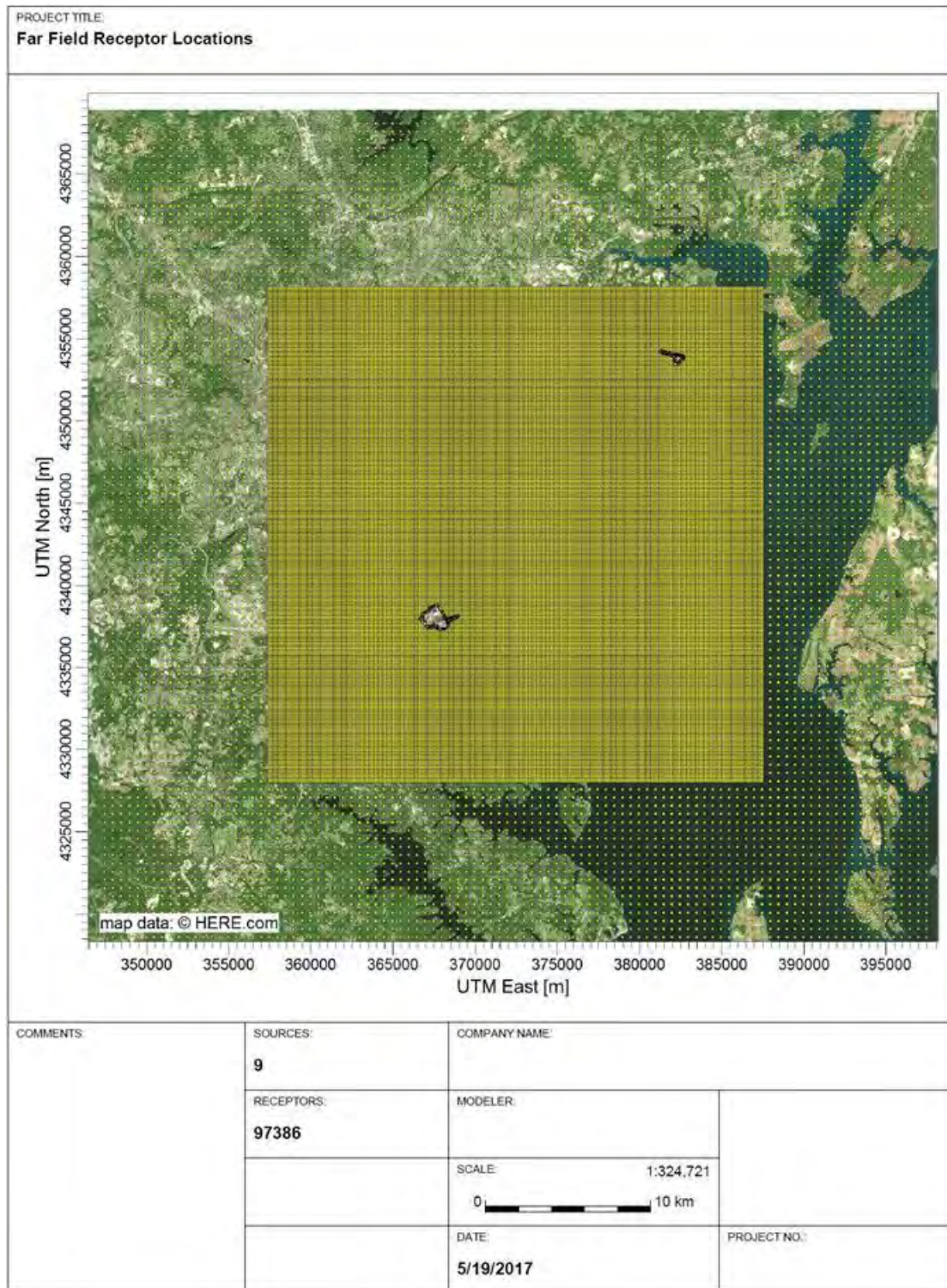


**Figure 4-13: BWI Airport 5-Year (2012-2016) Wind Rose**



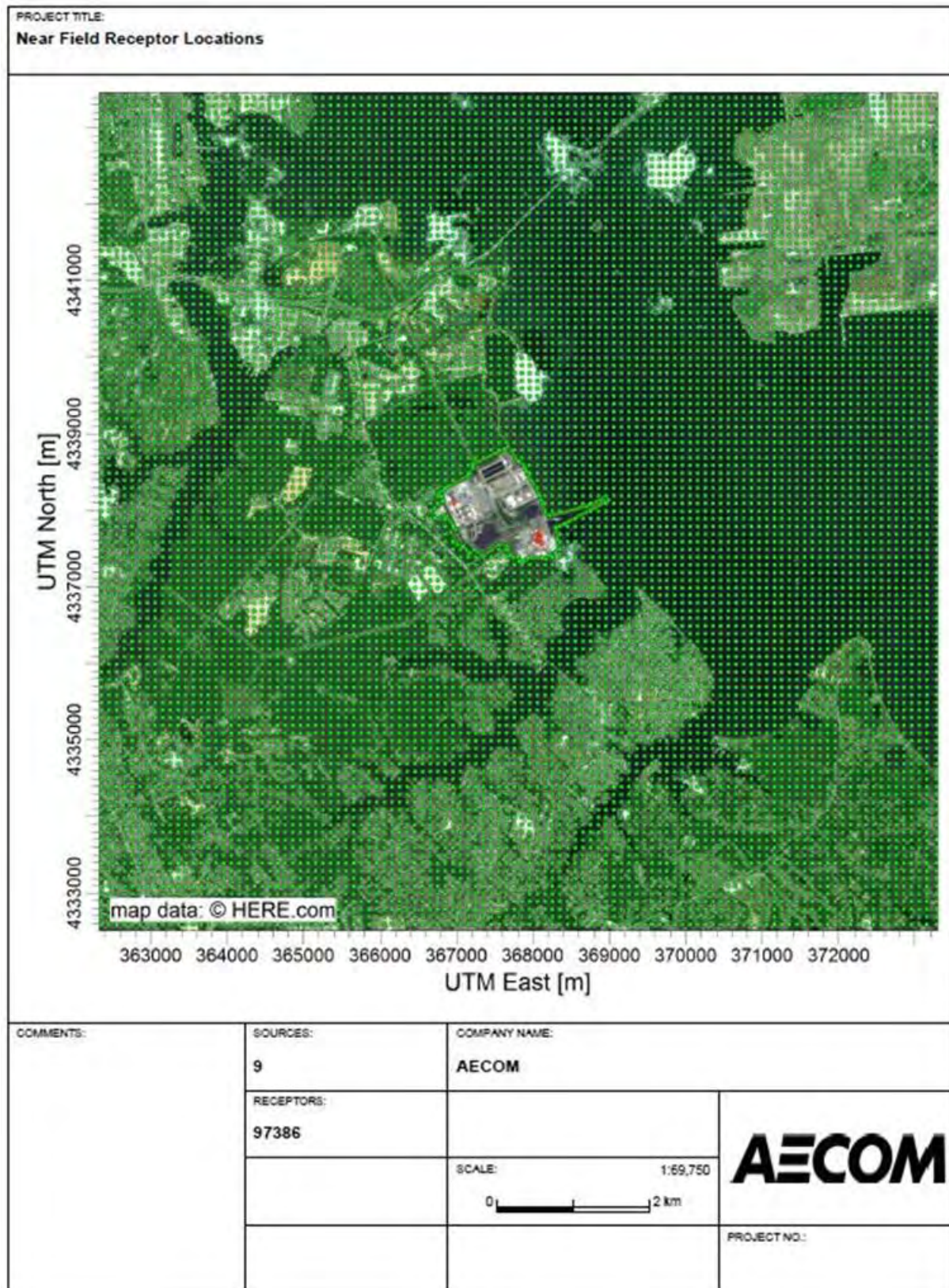


**Figure 4-14: Far field Receptor Locations for Modeling**



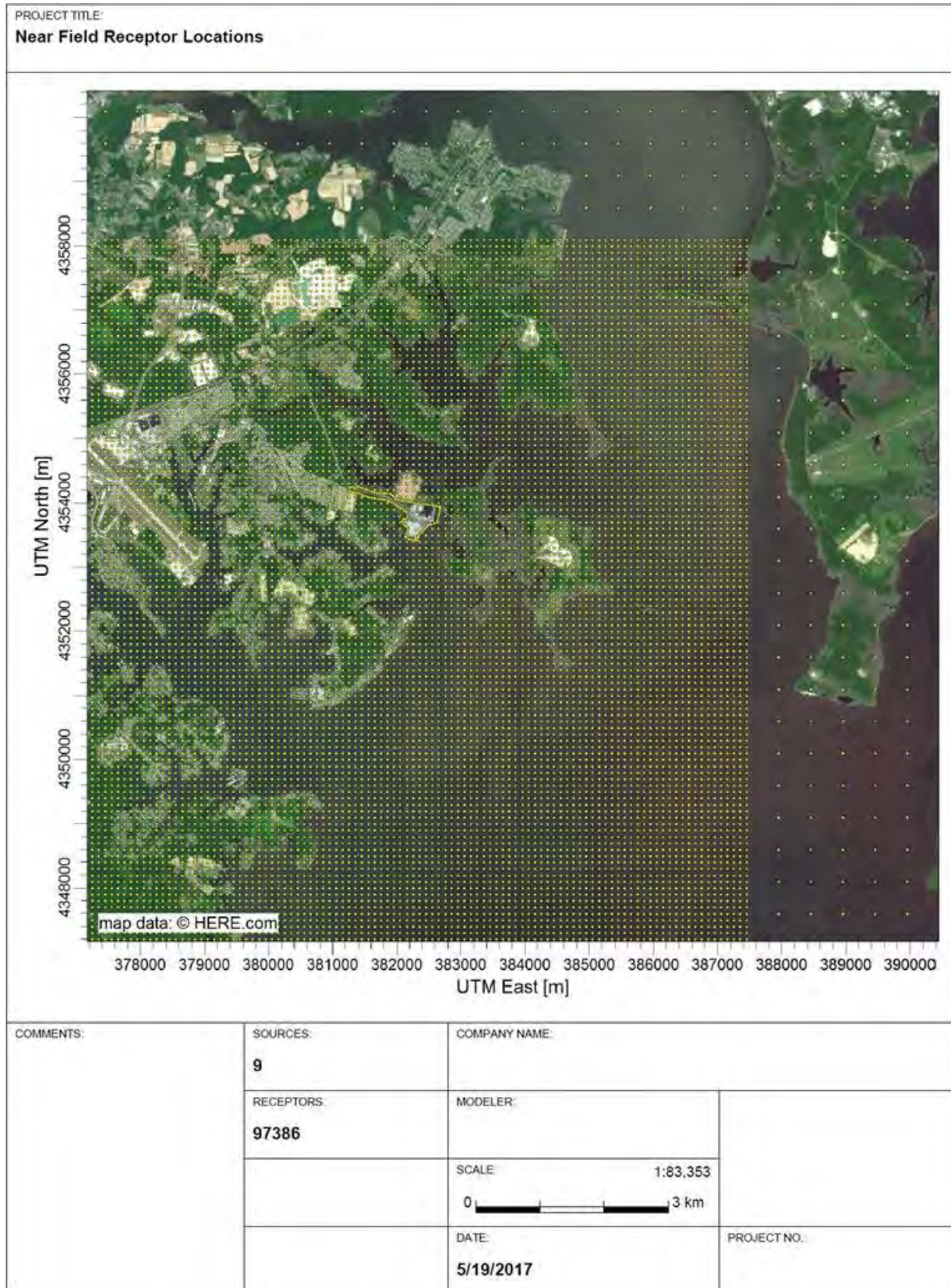


**Figure 4-15: Near Field Receptor Locations for Modeling – Fort Smallwood Complex**





**Figure 4-16: Near Field Receptor Locations for Modeling – C.P. Crane**





**Figure 4-17: Location of the Fence and Fence Line Receptors for Fort Smallwood Complex**

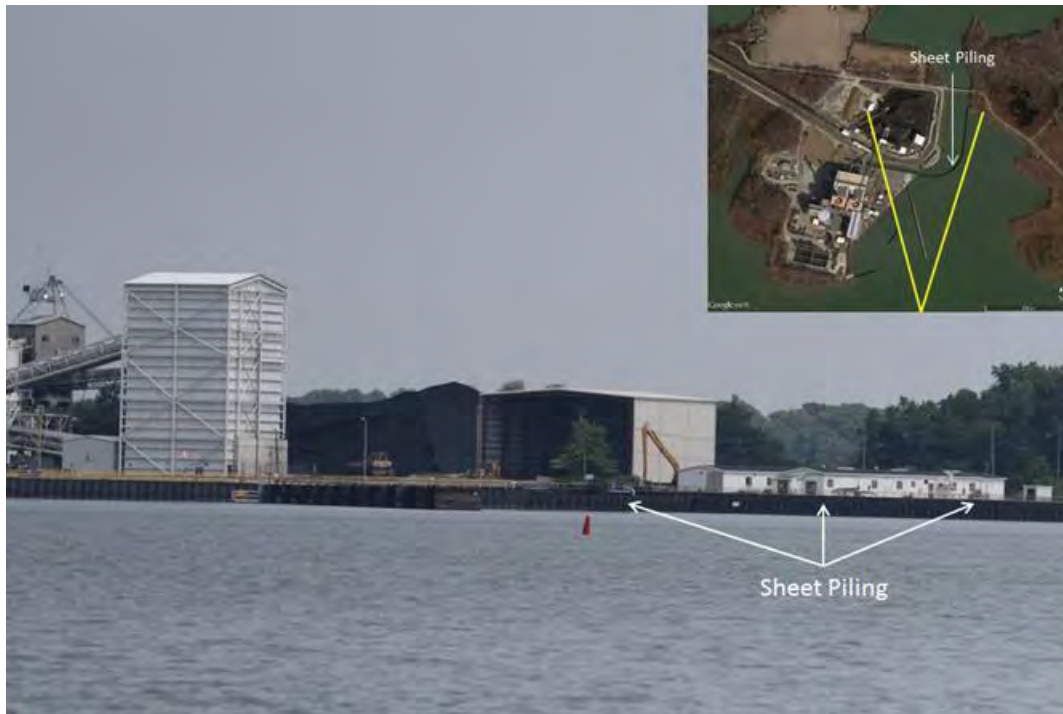




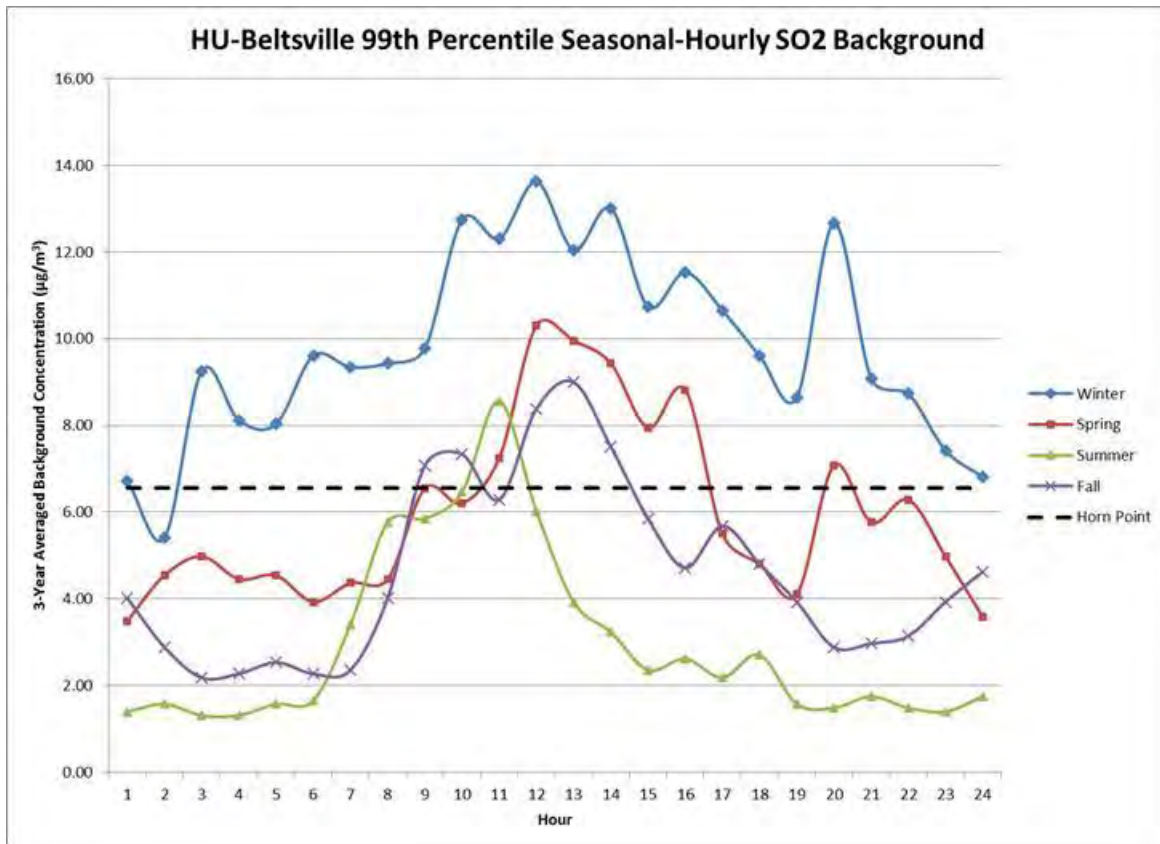
**Figure 4-18: Location of the Fence and Fence Line Receptors for C.P. Crane**



**Figure 4-19: On the Water View of the Sheet Piling**

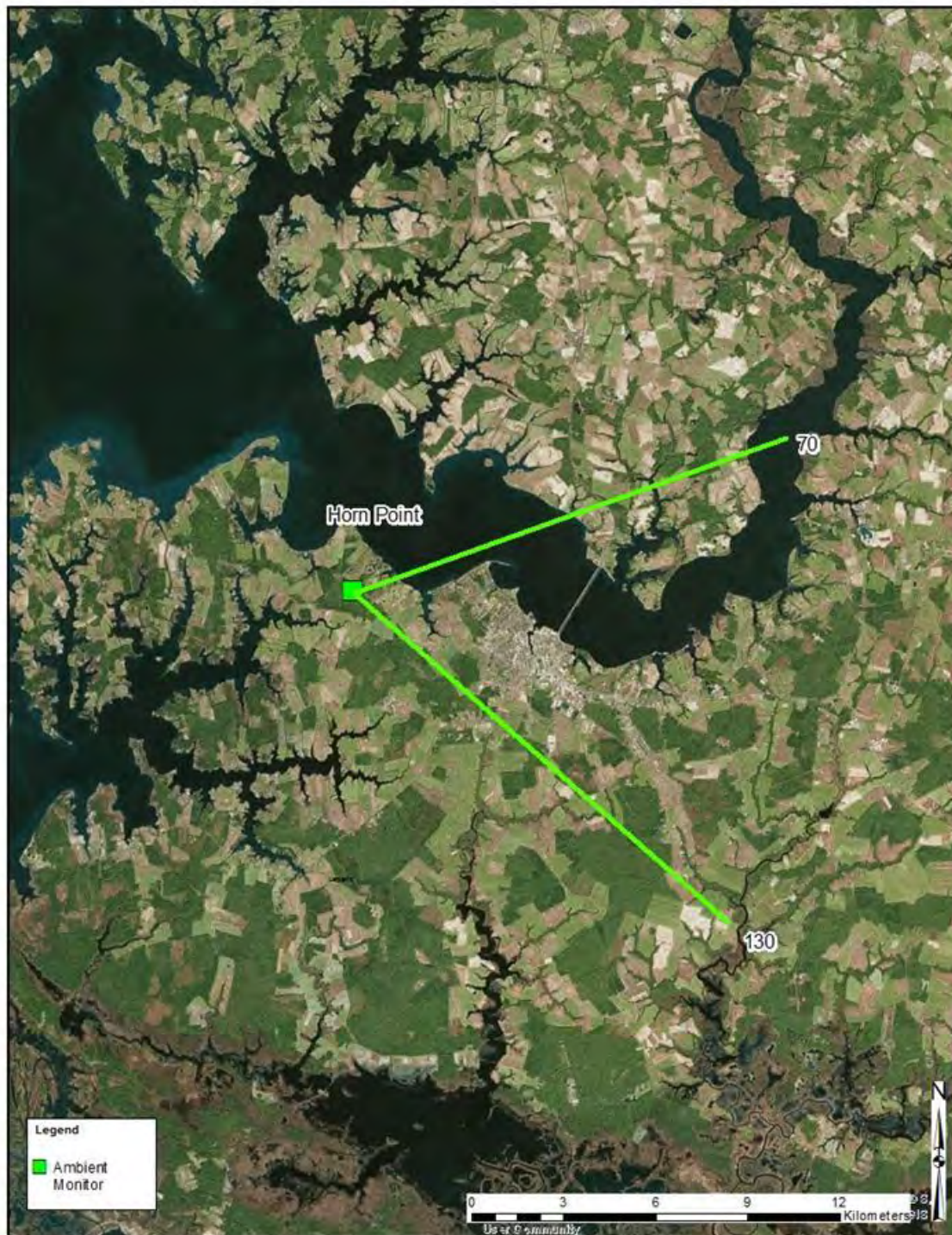


**Figure 4-20: Three-Year Averaged (2014-2016) SO<sub>2</sub> Background Concentrations Varying by Season and Hour-of-Day ( $\mu\text{g}/\text{m}^3$ )**





**Figure 4-21: Easterly Wind Sector Used to Calculate Design Value for Horn Point Monitor**



## 5. SO<sub>2</sub> NAAQS Attainment Modeling Results and Determination of Critical Emission Values

The critical emission value (CEV) for a facility is the maximum 1-hour average emission rate that, when combined with background, results in a design concentration that does not exceed the NAAQS. Initial modeling using emission rates reflecting either the current 1-hour emission limits (Wheelabrator), future 1-hour emission limits (C.P. Crane), or the highest 1-hour average emission rate during future (post-reduction in 2021) normal operations (H.A. Wagner and Brandon Shores) was performed for this modeling effort. Since Wagner Units 1 and 4 operate less than 5% of the time (and could be considered infrequent sources), their “critical emission value” is zero (not operating mode). This modeling followed the procedures noted in Section 4, and the cumulative source impacts at each model receptor were summed with regional background.

This is not to say that Wagner 1 and 4 emissions are neglected in the analysis, nor that they are not allowed to operate. Section 6 will describe how, using EPA Guidance Appendix B procedures, these infrequent emitters have been modeled with their frequency of operation factored in along with Brandon Shores and Wagner 3 with conservatively high emission rates in 1,000 different modeling years and the results demonstrate attainment of the SO<sub>2</sub> NAAQS.

The CEV analysis was conducted for two emission cases involving sources in the Fort Smallwood Complex because of the different operating scenarios for the multiple sources that could occur:

- Case 1: Brandon Shores Units 1 & 2 and Wagner Unit 3 are assumed to be continuously operating, with Wagner Units 1 and 4 not operating.
- Case 2: Brandon Shores Units 1 & 2 are assumed to be operating continuously at the same emission rate as the total emissions from Case 1 for Brandon Shores 1 and 2 as well as Wagner 3, with all Wagner Units not operating.

Both cases, with the same hourly emission rate total in each case, passed with modeled concentrations (including ambient background) below the NAAQS. Our modeling determined that the modeling concentration results normalized by emissions are lower for Brandon Shores operating alone (due to reduced downwash effects and merged flues) than for the combination of Brandon Shores and Wagner Unit 3. Therefore, a combined CEV emission rate (Brandon Shores Units 1 and 2 plus Wagner Unit 3) for the first emission case of both plants operating was found to be applicable to the second case as well, with some margin under the NAAQS for the second case with the same combined emission rate.

Results showed attainment with the 1-hour SO<sub>2</sub> NAAQS throughout the NAA for both emission cases described above. Additional details of the critical emission value modeling results are provided in the following sub-sections.

### 5.1 Model Results with Continuous Operation of Brandon Shores and Wagner Unit 3 (Case 1)

The emission rates used in the 1-hour critical emission rate model runs are presented in Table 5-1 for Brandon Shores and Wagner Unit 3 emission case.

Figure 5-1 shows the 1-hour SO<sub>2</sub> isopleths for this compliance run with the peak impact (including background) of 196.40 µg/m<sup>3</sup> located approximately 4 km west-northwest of the Fort Smallwood Complex. Figures 5-2 and 5-3 show the isopleths and peak impact around Fort Smallwood Complex and Crane. A secondary maximum impact of 194.82 µg/m<sup>3</sup> is located about 1.5 km west of Crane, as shown in Figure 5-3.

Tables 5-2 and 5-3 present the source culpability at the peak receptor near each plant for the controlling concentrations. The total concentration at the receptor is presented in the first row, while the remaining rows present the source contributions as concentrations in µg/m<sup>3</sup> and also as percentages of the total.

The non-attainment guidance issued by EPA in April 2014<sup>18</sup> allows for the consideration of longer emission averaging times that provide for comparable stringency with the critical emission values that can still be protective of the NAAQS. This analysis approach is discussed further in Section 6.

**Table 5-1: Emission Rates Used for Critical Value SO<sub>2</sub> NAAQS Compliance Modeling with Continuous Operation of Brandon Shores and Wagner Unit 3 (Case 1)**

<b>Source</b>	<b>Critical Emission Value - SO<sub>2</sub> Emission Rates Modeled in Compliance Run (lb/hr)</b>	<b>Critical Emission Value - SO<sub>2</sub> Emission Rates Modeled in Compliance Run (g/s)</b>
Crane Unit 1 & 2	2,900	365.4
Brandon Shores Merged Stack	2,851	359.2
Wagner Unit 1	0	0.0
Wagner Unit 3	2,299	289.7
Wagner Unit 4	0	0.0
Wheelabrator	375	47.3

Note: Total emissions from Brandon Shores and Wagner 3 is: 5,150 lb/hr.

<sup>18</sup> <http://www3.epa.gov/airquality/sulfurdioxide/pdfs/20140423guidance.pdf>

**Table 5-2: Source Contributions for Peak Impact near Fort Smallwood Complex for Continuous Operation of Brandon Shores and Wagner Unit 3 (Case 1)**

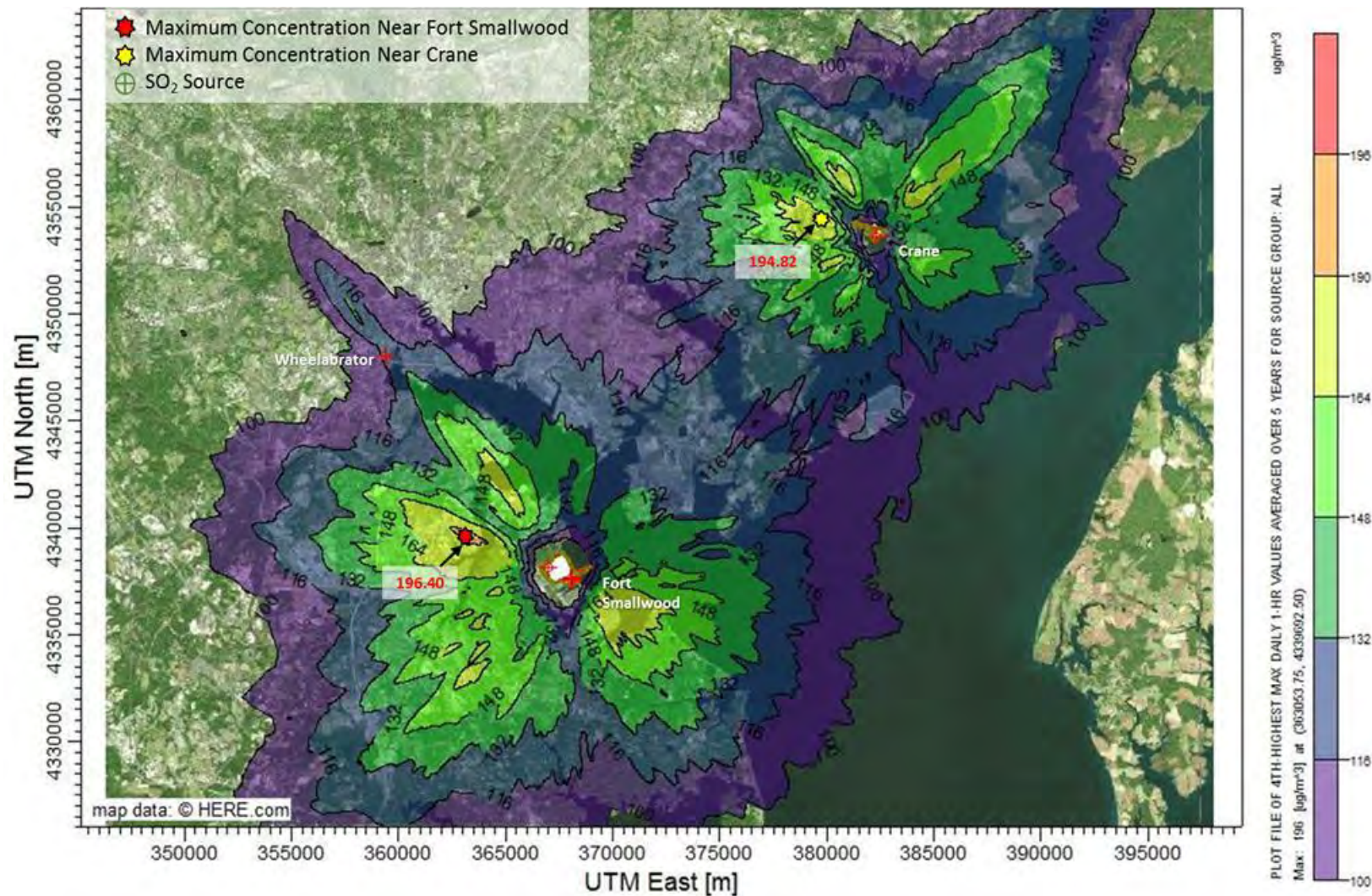
<b>Source</b>	<b>Concentration (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Percent Contribution</b>
Crane Unit 1 & 2	0.61	0.3%
Brandon Shores Merged Stack	85.64	43.6%
Wagner Unit 1	0.00	0.0%
Wagner Unit 3	102.70	52.3%
Wagner Unit 4	0.00	0.0%
Wheelabrator	0.17	0.1%
Ambient Background	7.28	3.7%
Peak Impact (Total)	196.40	100%

**Table 5-3: Source Contributions for Peak Impact near Crane for Continuous Operation of Brandon Shores and Wagner Unit 3 (Case 1)**

<b>Source</b>	<b>Concentration (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Percent Contribution</b>
Crane Unit 1 & 2	185.94	95.5%
Brandon Shores Merged Stack	0.67	0.3%
Wagner Unit 1	0.00	0.0%
Wagner Unit 3	0.66	0.3%
Wagner Unit 4	0.00	0.0%
Wheelabrator	0.14	0.1%
Ambient Background	7.41	3.8%
Peak Impact (Total)	194.82	N/A

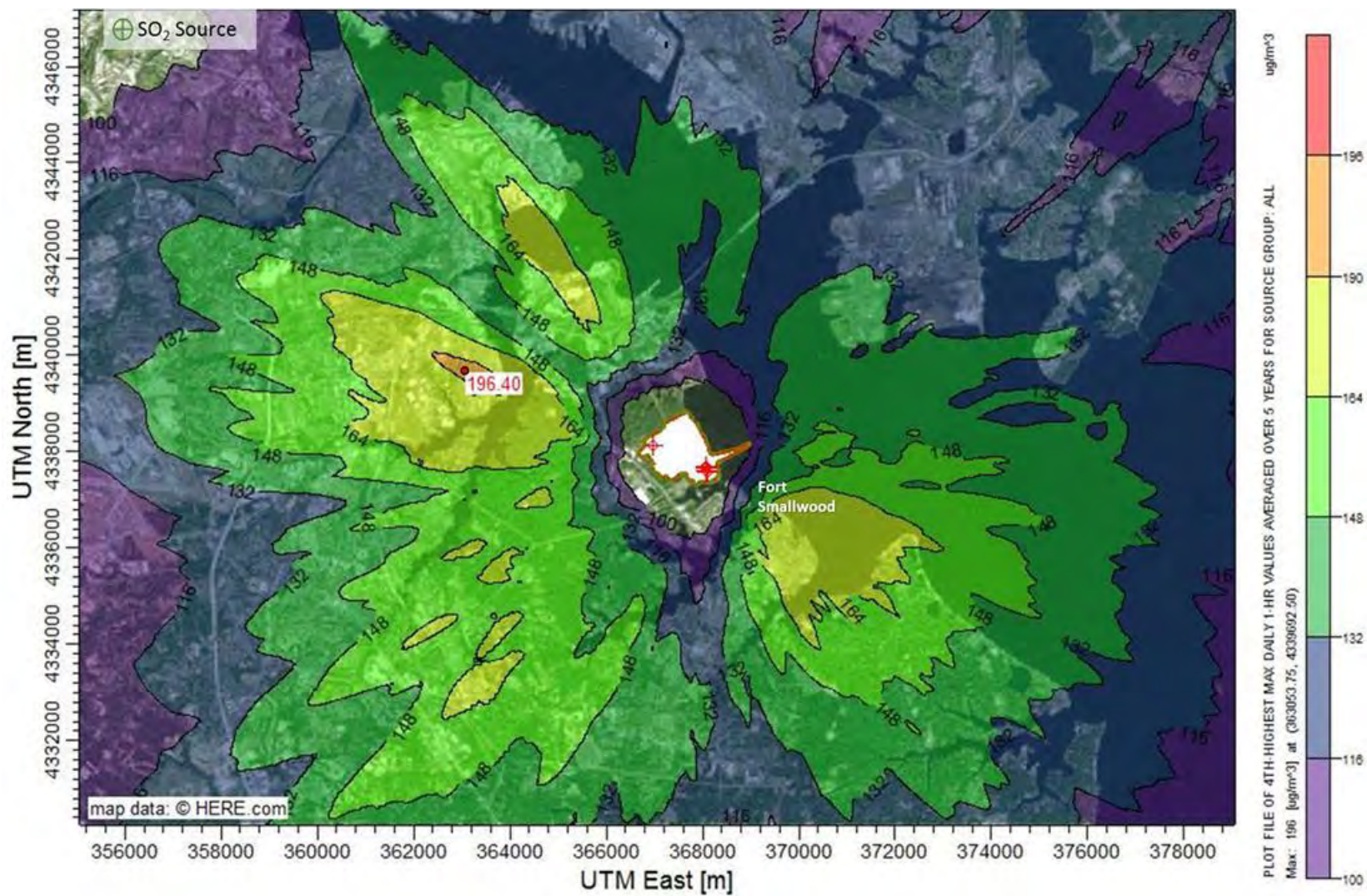


**Figure 5-1: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area (Case 1)**



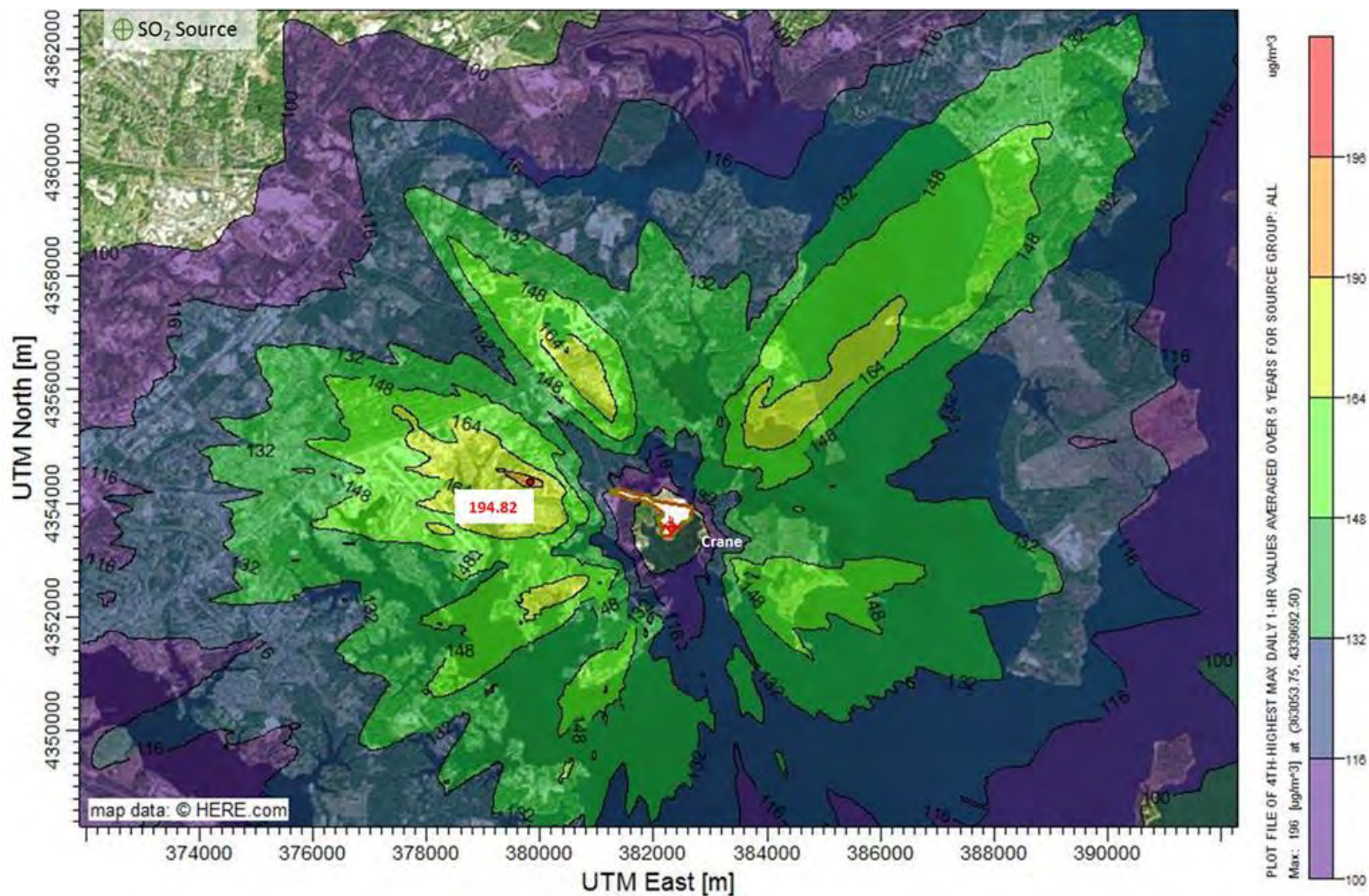


**Figure 5-2: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area – Near Fort Smallwood Complex (Case 1)**





**Figure 5-3: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area – Near Crane (Case 1)**



## 5.2 Model Results with Continuous Operation of Brandon Shores Only (Case 2)

The emission rates used in the 1-hour critical emission rate model runs for the Brandon Shores only emission case are presented in Table 5-4. The emission rates for Crane and Wheelabrator are the same as in Case 1. The emission rate for the Brandon Shores merged stack is equal to the total of emissions from both Brandon Shores and Wagner 3 from Case 1.

Figure 5-4 shows the 1-hour SO<sub>2</sub> isopleths for this compliance run with the peak impact (including background) of 194.59 µg/m<sup>3</sup> located approximately 1.4 km west of the Crane. Figures 5-5 and 5-6 show the isopleths and peak impact around Fort Smallwood Complex and Crane. A secondary maximum impact of 175.33 µg/m<sup>3</sup> is located about 3.7 km west-northwest of the Fort Smallwood Complex, as shown in Figure 5-5.

Tables 5-5 and 5-6 present the source culpability at the peak receptor near each plant for the controlling concentrations. The total concentration at the receptor is presented in the first row, while the remaining rows present the source contributions as concentrations in µg/m<sup>3</sup> and also as percentages of the total.

The non-attainment guidance issued by EPA in April 2014 allows for the consideration of longer emission averaging times that provide for comparable stringency with the critical emission values that can still be protective of the NAAQS. This analysis approach is discussed further in Section 6.

**Table 5-4: Emission Rates Used for Critical Value SO<sub>2</sub> NAAQS Compliance Modeling with Continuous Operation of Brandon Shores Only (Case 2)**

<b>Source</b>	<b>Critical Emission Value - SO<sub>2</sub> Emission Rates Modeled in Compliance Run (lb/hr)</b>	<b>Critical Emission Value - SO<sub>2</sub> Emission Rates Modeled in Compliance Run (g/s)</b>
Crane Unit 1 & 2	2,900	365.4
Brandon Shores Merged Stack	5,150	648.9
Wagner Unit 1	0	0.0
Wagner Unit 3	0	0.0
Wagner Unit 4	0	0.0
Wheelabrator	375	47.3

Note that the Brandon Shores merged emission rate is the same as the total of Brandon Shores merged plus Wagner 3 in Case 1.

**Table 5-5: Source Contributions for Peak Impact near Crane for Continuous Operation of Brandon Shores Only (Case 2)**

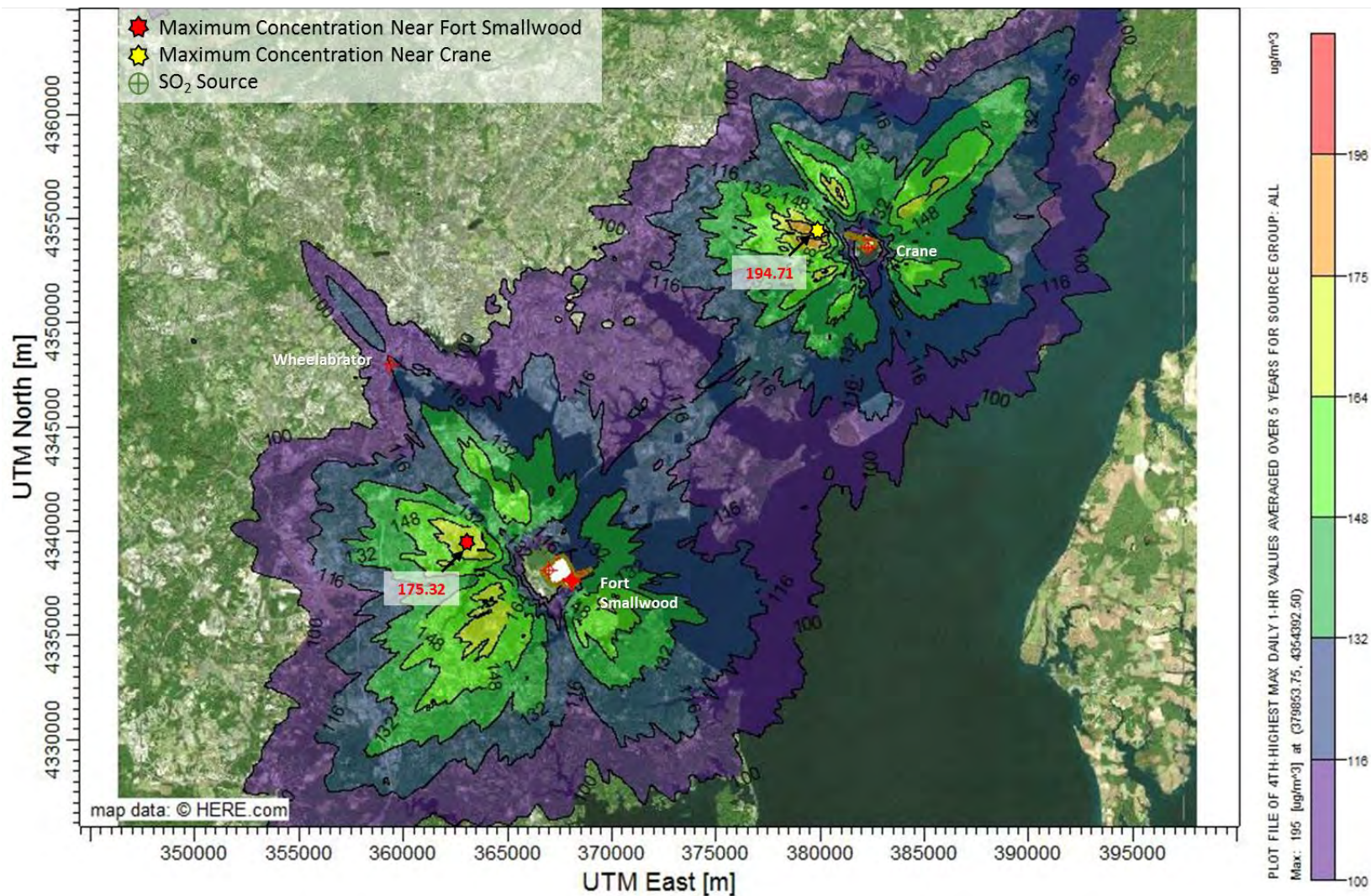
<b>Source</b>	<b>Concentration (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Percent Contribution</b>
Crane Unit 1 & 2	185.94	95.5%
Brandon Shores Merged Stack	1.22	0.6%
Wagner Unit 1	0.00	0.0%
Wagner Unit 3	0.00	0.0%
Wagner Unit 4	0.00	0.0%
Wheelabrator	0.14	0.1%
Ambient Background	7.41	3.8%
Peak Impact (Total)	194.71	100%

**Table 5-6: Source Contributions for Peak Impact near Fort Smallwood Complex for Continuous Operation of Brandon Shores Only (Case 2)**

<b>Source</b>	<b>Concentration (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Percent Contribution</b>
Crane Unit 1 & 2	0.81	0.5%
Brandon Shores Merged Stack	167.24	95.4%
Wagner Unit 1	0.00	0.0%
Wagner Unit 3	0.00	0.0%
Wagner Unit 4	0.00	0.0%
Wheelabrator	0.25	0.1%
Ambient Background	7.02	4.0%
Peak Impact (Total)	175.32	100%

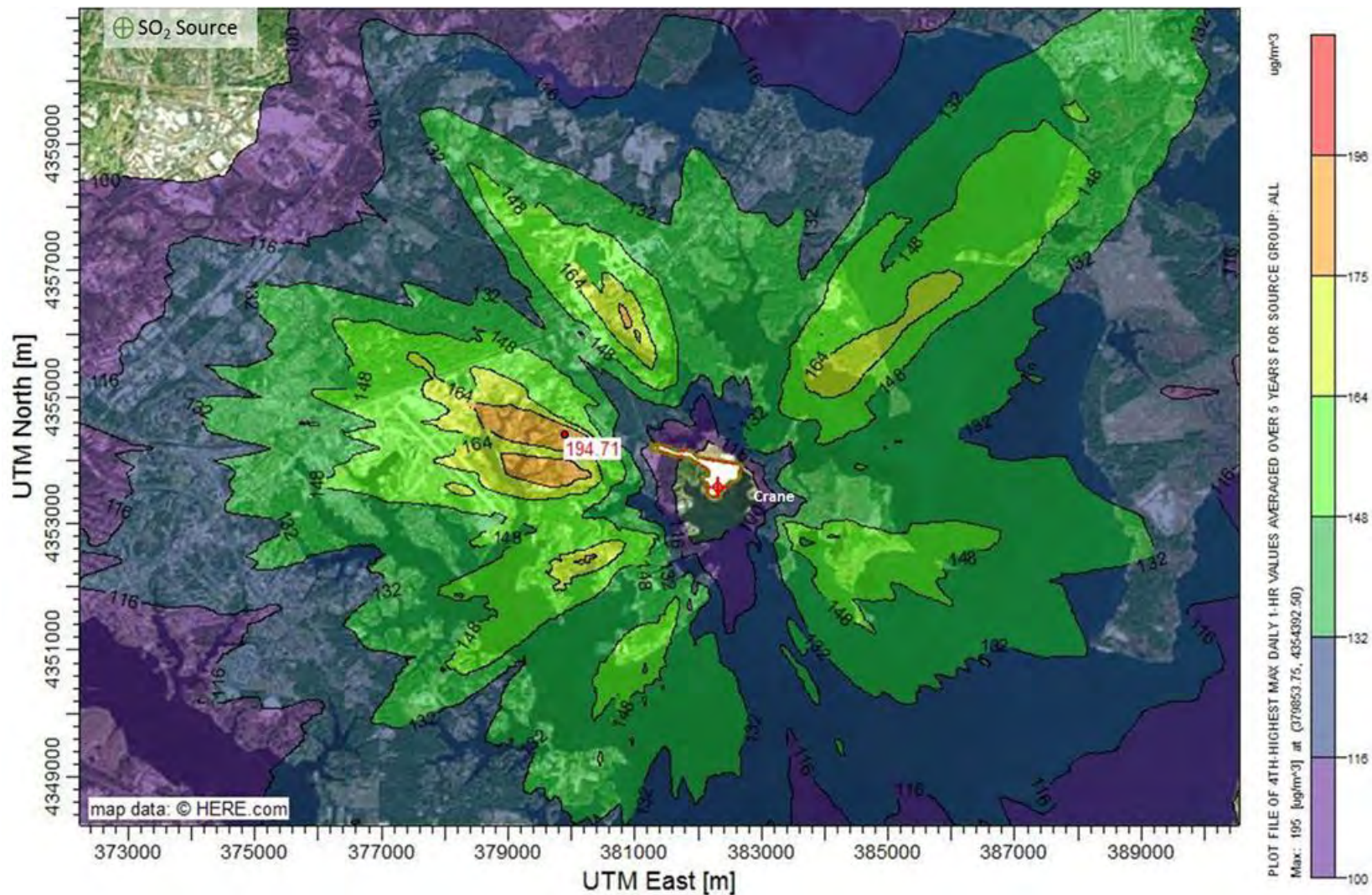


**Figure 5-4: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area (Case 2)**



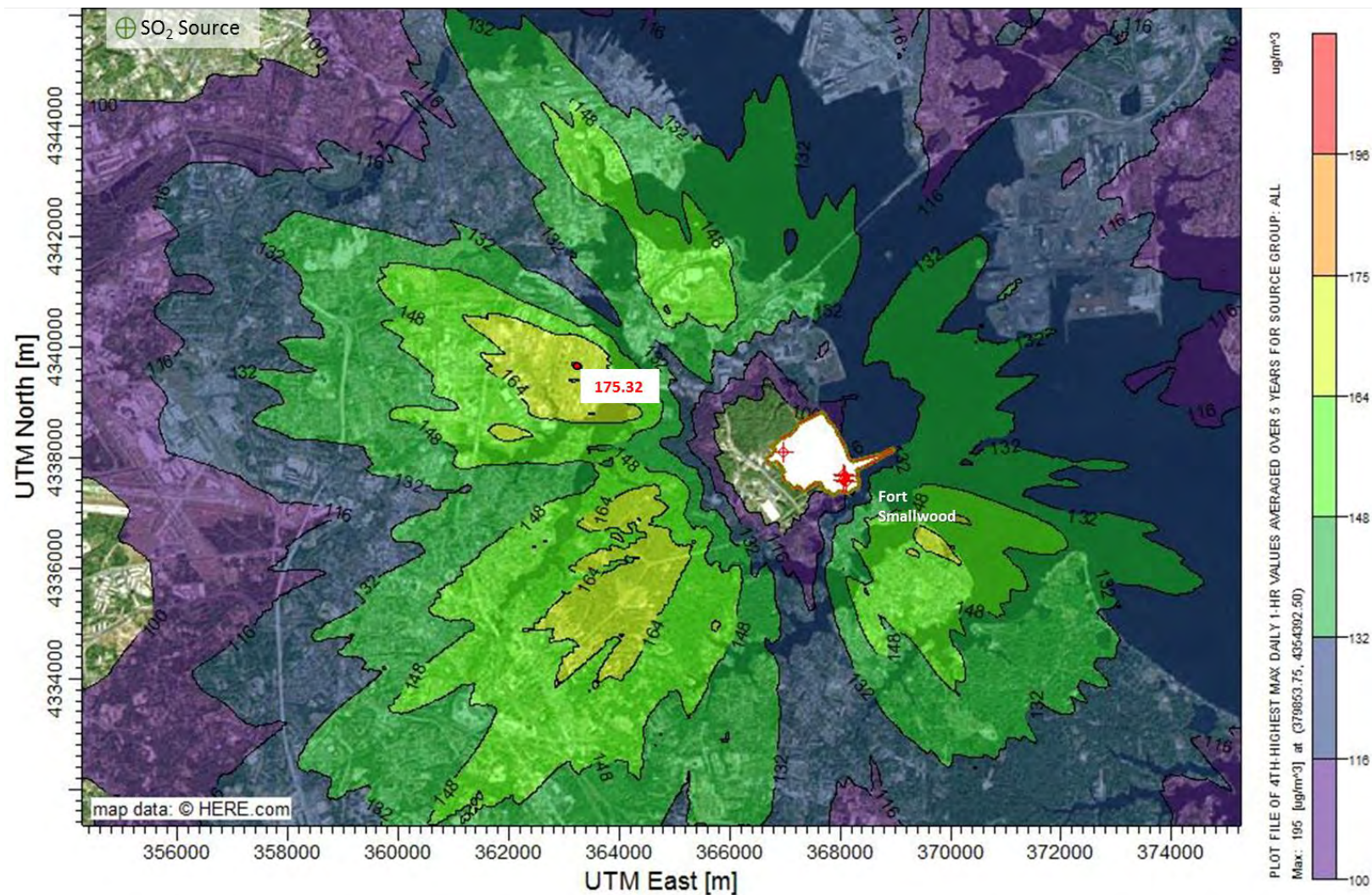


**Figure 5-5: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area – Near Crane (Case 2)**





**Figure 5-6: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area – Near Fort Smallwood Complex (Case 2)**



## 6. Proposed SO<sub>2</sub> Emission Limits for the Sources Located in the Baltimore, MD NAA

EPA's April 23, 2014 guidance for resolving SO<sub>2</sub> non-attainment areas acknowledges "that it may be possible in specific cases for states to develop control strategies that account for variability in 1-hour emissions rates through emission limits with averaging times that are longer than 1 hour, using averaging times as long as 30 days, but still provide for attainment of the 2010 1-hour SO<sub>2</sub> NAAQS." EPA's general expectation is that for infrequent periods of hourly emissions above the critical emission value, "these periods would be unlikely to have a significant impact on air quality, insofar as they would be very unlikely to occur repeatedly at the times when the meteorology is conducive for high ambient concentrations of SO<sub>2</sub>. EPA considers this option to be an "appropriate balance between providing a strong assurance that the NAAQS will be attained and maintained, while still acknowledging the necessary variability in source operations and the impairment to source operations that would occur under what could be in some cases an unnecessarily restrictive approach to constraining that variability" (emphasis added). Brandon Shores and Wagner Unit 3 are equipped with and operate with SO<sub>2</sub> emissions control devices. For such sources seeking alternate or longer-term emission limits, EPA's guidance notes that:

"Sources with emission control equipment may be especially prone to periodic occurrences of high emissions, arising on occasions when the control equipment is not operating or operating at reduced efficiency. Therefore, the EPA finds it advisable that longer-term average limits for sources that meet these limits through the use of emission control equipment be subject to supplemental limits that serve to constrain the frequency and/or magnitude of occasions of elevated emissions. Establishment of such supplemental limits as part of a longer-term averaging approach is especially important in cases with significant potential for frequent and/or high magnitude occasions of elevated emissions, including, but not limited to, sources using emissions control equipment."

Brandon Shores Units 1 and 2 are two coal-fired boilers that exhaust through a common stack. These units operate with FGD scrubbers. For these units, process upset conditions that could potentially result in infrequent elevated SO<sub>2</sub> emission spikes (e.g., loss of a spray pump in the flue gas desulfurization module) may be difficult to address within a one-hour period in a manner that restores operations to those that preceded the upset condition. These units are operated in a manner that avoids unplanned or abrupt changes in generating load. Consequently, establishing alternate SO<sub>2</sub> emission limits is appropriate for these sources.

Wagner Unit 3 is equipped with a dry sorbent injection (DSI) that reduces SO<sub>2</sub> emissions. During rare system malfunctions of the DSI injection, higher emissions of SO<sub>2</sub> can occur. Additionally, at maximum load, a condition that only occurs occasionally during more extreme electrical demand conditions, SO<sub>2</sub> removal may not be as effective due to lower retention time of the sorbent, so SO<sub>2</sub> emissions may be higher than normal for these hours. Given that these events are rather infrequent, Unit 3 will also pursue alternate SO<sub>2</sub> emission limits to account for these infrequent events.

Wagner Units 1 and 4 are fueled by oil, with Unit 1 using natural gas typically outside of the winter season. Due to various reasons, including economic, the regional transmission operator, PJM, rarely dispatches these units to serve the load. Historically, and future projections do not differ from the past, these units primarily operate when demand is highest (e.g., hot summer days and cold winter days). Because Wagner Units 1 and 4 emit SO<sub>2</sub> so infrequently, their emissions are similar in nature to occasional, peak SO<sub>2</sub> emissions from malfunctions of SO<sub>2</sub> controls, so establishing alternate SO<sub>2</sub> emission limits for these units would also be appropriate.

Lastly, alternate emission limits are also justified because of infrequent alignment of peak conditions. As discussed in Section 5.1 and 5.2, compliance (CEV) modeling was done for Case 1 (the continuous operation of Brandon Shores and Wagner Unit 3), and for Case 2 (the continuous operation of Brandon

Shores alone). As shown in Table 5-2 and Figure 5-1 of this report, the highest modeled concentration near Ft. Smallwood shows a plant lineup with Brandon Shores (Case 1) and Wagner (Case 1), with both sources operating at their continuous modeled emission rates during periods with a persistent east-southeast wind. Per Figure 4-13, the wind rose of the meteorological data used in this modeling study shows that winds from the east-southeast (assuming a 22.5-degree sector) occur less than 5 percent of the time. Talen Energy believes that the simultaneous occurrence of all of the controlling conditions is a low probability event that would warrant an alternate SO<sub>2</sub> emission limit for the sources.

For these reasons, Talen Energy proposes that attainment with the 1-hour SO<sub>2</sub> NAAQS in the Anne Arundel and Baltimore Counties, MD NAA, for H.A. Wagner and Brandon Shores can be assured via compliance with the use of 30-day rolling average limits calculated as discussed below. Talen Energy has elected to follow the procedure included in EPA's non-attainment guidance document, Appendix B. In general, EPA expects that any emission limit with an averaging time longer than 1 hour would need a downward adjustment to compensate for the loss of stringency inherent in applying a longer-term average limit. Discussions for the proposed SO<sub>2</sub> emission limits for each station are presented in the next five sub-sections followed by a summary of results from EPA's Appendix B modeling procedure in Section 6.6.

## 6.1 Crane Modeled SO<sub>2</sub> Emissions

Since Crane's SO<sub>2</sub> emissions are more of a single source, far from Ft. Smallwood, they will not require the use of Appendix B. As mentioned earlier in Section 3.1, PurENERGY will commit to a 1-hour emission rate of 2,900 lb/hr (365.3939 g/s) as a cap for C.P. Crane Units 1 and 2 combined. This constant emission rate of 2,900 lb/hr (365.3939 g/s) was used in all of the modeling demonstrations used in this report to support the Anne Arundel and Baltimore Counties, MD NAA SIP.

## 6.2 Appendix B Approach - Overview

As discussed in EPA's 2014 SO<sub>2</sub> nonattainment guidance document (Appendix B), the effect of infrequent emissions above the Critical Emission Value is outlined below:

"Exceedances of the SO<sub>2</sub> NAAQS occur when emissions from relevant sources are sufficiently high on occasions when the meteorology is conducive for those emissions to cause elevated SO<sub>2</sub> concentrations. An illustrative example would be a case in which a single source has a dominant impact on area concentrations, and the source only causes an exceedance at a particular location with light southwest winds with limited dispersion. In this example, the likelihood of an exceedance at that location will be a function of the likelihood of elevated emissions occurring during times of light southwest winds with limited dispersion. Stated more generally, the likelihood of an exceedance is a function of the likelihood of emissions being high when the meteorology is conducive for the source to cause an exceedance. By extension, the likelihood of a violation is a function of the likelihood of emissions being high on a sufficient number of times with meteorology conducive to having exceedances to have the average of the 99<sup>th</sup> percentile daily maximum values exceed the NAAQS. Viewed another way, the occasions when the meteorology is conducive for the source to cause an exceedance at a particular location are likely to be infrequent, and high concentrations are contingent on both emissions being sufficiently high and the meteorology being sufficiently conducive. The NAAQS itself is based on relatively rare occurrences, being based on the 99<sup>th</sup> percentile of daily maximum concentrations. Nevertheless, the point here is that the occurrence of high emissions will not cause an exceedance if it does not occur when meteorology is conducive to having an exceedance. Furthermore, a source with rare occurrences of high emissions and with much more frequent occurrences of moderate emissions is more likely to have moderate emissions on those occasions with meteorology conducive for exceedances, and the design value for the source may be more prone to reflect the moderate emissions than the high emissions."

EPA's 2014 SO<sub>2</sub> nonattainment guidance document establishes a procedure in Appendix B for showing that a longer-term emission limit (with a downward adjustment factor applied to the CEV based on a



projected distribution of emissions) can be protective of the 1-hour SO<sub>2</sub> NAAQS. The discussion on page 25 of this guidance further discusses this approach.

“Appendix B documents analyses that the EPA has conducted to evaluate the extent to which longer term average limits that have been adjusted to have comparable stringency to 1-hour limits at the critical emission value provide for attainment. In brief, while a longer term average limit as contemplated here would allow occasions when emissions exceed the critical emission value, the use of a lower limit compensates by requiring most values to be lower than they are required to be with a 1-hour limit at the critical emission value. The EPA expects that a common net result will be that the comparably stringent limit will provide a sufficient constraint on the frequency and magnitude of occurrences of elevated emissions (especially if supplemented with more direct limits on these occurrences) that a control strategy based on such limits would reasonably provide for attainment.”

Once the 1-hr critical emission value is established based on the traditional modeling approach (assuming constant operation), it can then be used as the baseline for establishing an emissions distribution throughout the year, including the variability described above, which will have a worst-case, long-term average emission rate below the CEV. To determine that emissions profile, historical emissions can be analyzed to determine a representative future emission scenario (inclusive of high and low operations and emissions) and then scaled as needed. A source could be expected to experience occasional hourly emission rates greater than the long-term (30-day) average emission limit or even the CEV with the likelihood that such infrequent emissions do not result in a NAAQS exceedance, as discussed above.

In their Appendix B of the 2014 SO<sub>2</sub> nonattainment guidance, EPA has outlined a procedure to conduct extensive modeling of a highly variable source as well as a site-specific modeling approach for demonstrating through a large number of modeling runs that a specific emissions distribution can be shown to protect the 1-hour SO<sub>2</sub> NAAQS. Establishing a longer-term average limit is most appropriate if the frequency and magnitude of such occasions of elevated emissions will be relatively low. This “Randomly Reassigned Emissions” (RRE) procedure is outlined below, followed by a discussion as to how this procedure was applied for the Brandon Shores Units 1 and 2.

1. Conduct dispersion modeling of the highest normal emissions to determine 1-hour CEV and use this result as a baseline for ensuring a lower, longer-term (i.e., rolling 30-day) limit would be considered an equivalently stringent limit.
2. Derive an estimate of the distribution of future emission from statistical analysis of a set of representative recent emissions data (i.e., CEMS) that reflects the emissions variability that the source is expected to exhibit in the future. This emission distribution can be expressed as a cumulative frequency distribution and can also be expressed as a set of discrete emission “bins” that approximate (or that conservatively provide a slightly higher set of emissions than) the cumulative emissions curve.
3. As needed, adjust the future emission values downward so that the entire set of modeling runs described below show NAAQS compliance and that the longer-term average of the emissions distribution is below the CEV. This could be an iterative process.
4. Create a large number (e.g., 100) of emission data sets (full years of hourly emissions data that reflects the emissions distribution) by randomly assigning hourly emission values from the scaled emissions.
5. Ensure the longer-term average emission rate derived from the 100 emission data sets, which could serve as the longer-term average limit, is less than the CEV value.
6. Conduct 100 sets of AERMOD simulation runs (with a 5-year meteorological data set in this case) using the randomly assigned hourly emission values to obtain the average 99<sup>th</sup> percentile of daily maximum concentrations. Create a 5-year average of the 99<sup>th</sup> percentile statistic at each receptor in preparation for the next step.

7. Compare the modeled design concentration obtained from the 100 model simulations (5-year averages) to the 1-hour SO<sub>2</sub> NAAQS. A successful outcome is that all of the 100 model simulations (5-year averages) show NAAQS compliance.

## 6.3 Brandon Shores Modeled SO<sub>2</sub> Emissions

### 6.3.1 Randomly Reassigned Emissions Analysis for Brandon Shores

A representative emission distribution was selected to be modeled for the randomly reassigned modeling runs based on the 2014-2016 actual emission dataset for Brandon Shores. The distribution accounts for the frequency and duration observed during actual plant operations, and this operation is expected to continue in a similar manner for future years. For conservatism, the “binned” or step-wise modeled hourly emissions were fit to a frequency curve that included slightly higher rates compared to the smoothed frequency distribution of the actual emissions. The 2014-2016 emission cumulative frequency plots were used in the analysis as the basis of the future emission bins to use in the 100 years of modeling. The future hourly emissions were computed by taking the 2014-2016 actual hourly heat input and multiplying them by 0.2 lb/MMBtu (the anticipated future emission rate). The maximum boiler ratings based on 2014-2016 data are 7,357 MMBtu/hr and 7,683 MMBtu/hr for Units 1 and 2, respectively. Figure 6-1 provides a comparison of the 2014-2016 hourly emissions to the future 1-hour CEV. Figure 6-2 shows a cumulative distribution of hourly emissions (2014-2016) and Figure 6-3 focuses on the top 10% of the cumulative frequency distribution compared to the future emission rates used in the longer term average (Appendix B) modeling.

For the modeling of Brandon Shores, two emission scenarios were selected (as discussed in Section 5). The first case included modeling the operation of both Brandon Shores and Wagner units, while the second case involves Brandon Shores and Wagner Units 1 and 4 (i.e., Wagner Unit 3 would not be operating) only as the results in Section 6.6.1 will show that Case 1 is the limiting case near Fort Smallwood. Section 6.4.1.1 discusses the former (Case 1) followed by a discussion of the analysis for Case 2 in Section 6.4.1.2.

#### 6.3.1.1 Randomly Reassign Emissions Analysis – Case 1

A total of 9 emission bins (provided in Table 6-1) were created with emission rates ranging from 1,000 lb/hr to 9,980 lb/hr for Brandon Shores Units 1 and 2 combined. Approximately 95% of the hours were set at or below a reference emission rate of 2,851 lb/hr, which is the critical emission value derived for Case 1. Although some of the time both of the Brandon Shores units will be off with zero emissions, the lowest emission bin was set at 1,000 lb/hr instead of zero lb/hr to be conservative.

The remaining 5% of the hours contain hourly emission rates greater than the CEV rate. The infrequent and higher magnitude emission rates that make up the 5% of the hours from Table 6-2 were modeled as groups, or events, that correspond to typical clustering of higher emission hours in terms of magnitude and frequency. Such prescribed events are characterized by a sequence of emissions with values greater than the short-term critical emission value lasting for pre-defined durations that are representative of the actual emission behavior associated with scrubber pump malfunctions. The historical data indicates a seasonal bias during the winter and summer periods, which correlates well with peak demand. The prescribed events in the Case 1 modeling of Brandon Shores have been designed to mimic this seasonality with a higher frequency during the winter and summer months. Of note is the highest value of 9,980 lb/hr, which is included to account for the rare potential of a full scrubber malfunction on one unit occurring until the unit is shut down (set at a duration of up to 3 hours and a frequency of once per year). As shown in Table 6-1, the weighted hourly emission rate (annual average of the emission bins) is equal to 1,925 lb/hr, which is also the target equivalent rolling 30-day NAAQS-compliant mass emission rate for Brandon Shores used in the RRE modeling for Case 1. The long-term emission rate represents a significant (32.5%) discount from the 1-hour CEV emission rate for Brandon Shores. Furthermore, the

rolling 30-day averaged emissions modeled would be higher than the annual average given the seasonality of the distribution for this source, thus the future limit is conservative.

The process for building 365-day randomly reassigned emission sets was repeated 100 times in order to develop the hourly emission files for the 100 AERMOD simulations. Appendix B of this report shows time series plots of the 100 simulated years of the hourly emissions for Case 1.

The 100 AERMOD simulations using randomly reassigned 1-hour emission rates for Brandon Shores were run in tandem with randomly reassigned 1-hour emission rates for Wagner Units 1, 3, and 4 along with a constant CEV 1-hour emission rate for Crane and Wheelabrator plus regional background (HU-Beltsville monitor for 2014-2016 as discussed in Section 4.7). Table 6-3 lists the long-term average emission rates (representative of a 30-day average) determined for each model simulation that are based on the average of the randomly reassigned hourly emission distribution for that simulation year. Some slight variability from the target equivalent rolling 30-day average of 1,925 lb/hr is expected given that the hourly-varying emissions are randomly assigned and the distribution may vary slightly from year to year.

#### 6.3.1.2 Randomly Reassign Emissions Analysis – Case 2

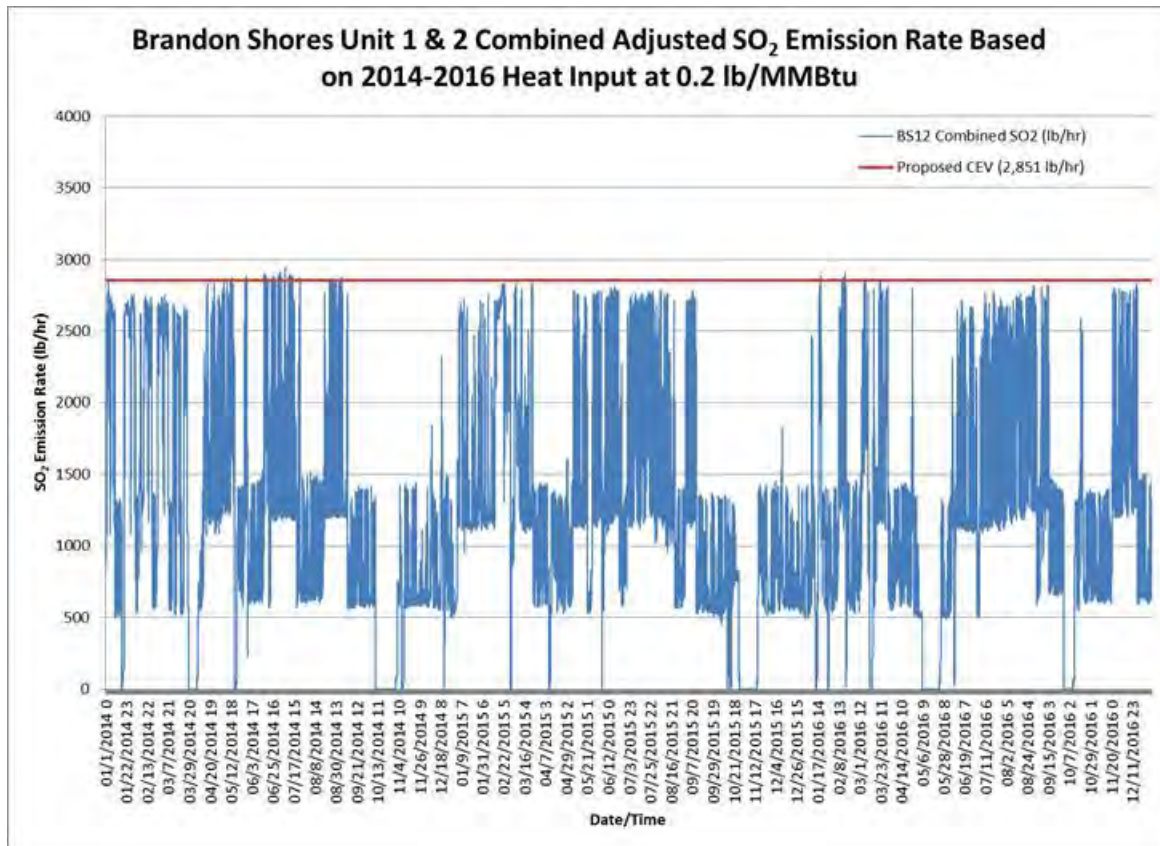
A total of 5 emission bins (provided in Table 6-4) were created with emission rates ranging from 2,500 lb/hr to 9,980 lb/hr for Brandon Shores Units 1 and 2 combined. Approximately 99.97% of the hours were set at or below a reference emission rate of 5,150 lb/hr, which is the critical emission value derived for Case 2. The critical emission value for Case 2 is the sum of the critical emission values for Brandon Shores Units 1 and 2 and Wagner Unit 3 from Case 1 (2,851 lb/hr + 2,299 lb/hr = 5,150 lb/hr). Similar to Case 1, a floor of 2,500 lb/hr was applied throughout the year to be conservative, even though the units will always have some down time.

The remaining 0.03% (3 hours) of the annual hours greater than the CEV rate consists of a single event that could last up to 3 hours (see Table 6-5) to account for the rare potential of a full scrubber malfunction on one unit occurring until the unit is shut down. This single annual event was modeled as a single event that could occur any time during the year. Note that all of the potential high emission events listed in Case 1, except this one, had magnitudes below the Case 2 CEV. As shown in Table 6-4, the weighted hourly emission rate (annual average of the emission bins) is equal to 3,860 lb/hr, which is also the target equivalent rolling 30-day NAAQS-compliant mass emission rate for Brandon Shores used in the RRE modeling for Case 2. The long-term emission rate represents a significant (25%) discount from the 1-hour CEV emission rate. Furthermore, the rolling 30-day averaged emissions modeled would be higher than the annual average given the seasonality of the distribution for this source, thus the future limit is conservative.

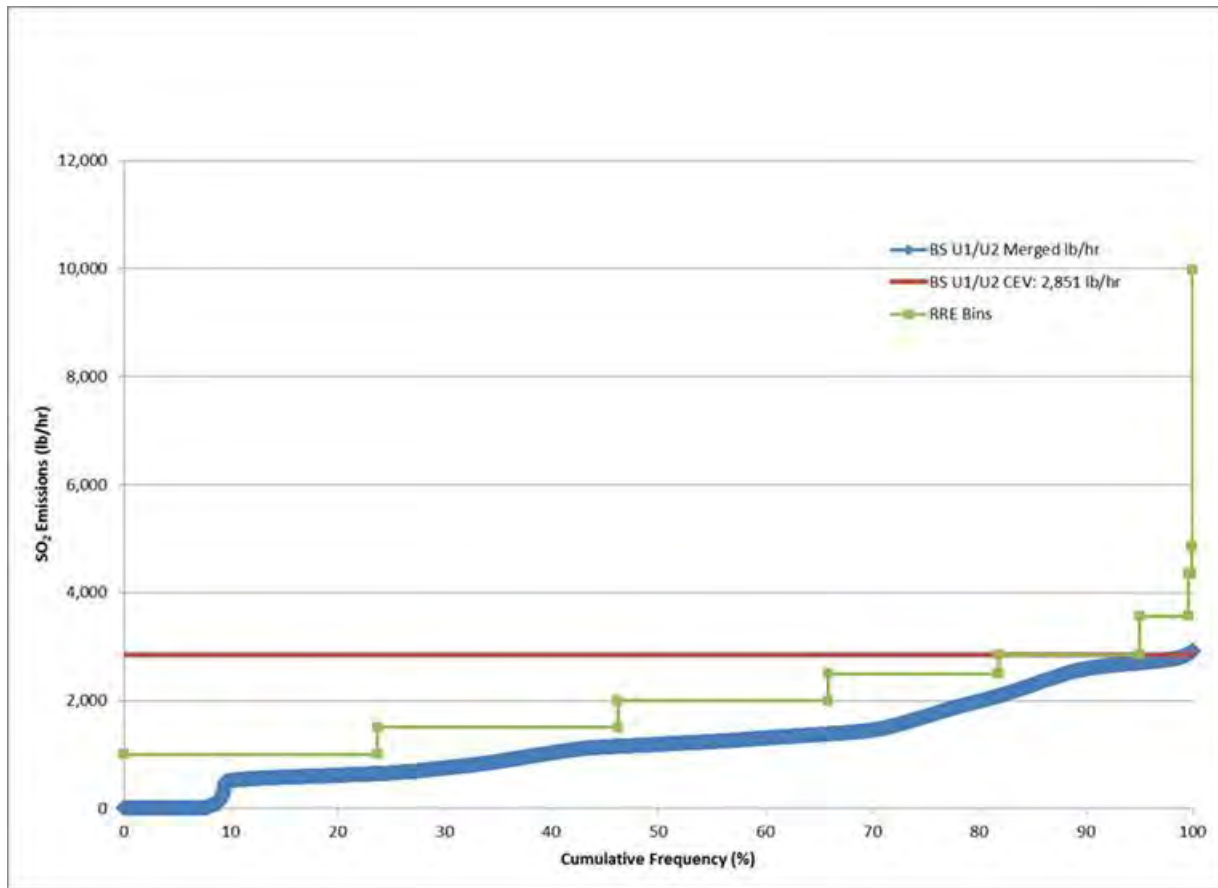
The process for building 365-day randomly reassigned emission sets was repeated 100 times in order to develop the hourly emission files for the 100 AERMOD simulations. Appendix C of this report shows time series plots of the 100 simulated years of the hourly emissions for Case 2.

The 100 AERMOD simulations using randomly reassigned 1-hour emission rates for Brandon Shores were run along with the randomly reassigned 1-hour emission rates for Wagner Units 1 and 4 (same as Case 1) with a constant CEV 1-hour emission rate for Crane and Wheelabrator plus regional background (HU-Beltsville monitor for 2014-2016 as discussed in Section 4.7). Table 6-6 lists the long-term average emission rates (representative of a 30-day average) determined for each model simulation that are based on the average of the randomly reassigned hourly emission distribution for that simulation year. Some slight variability from the target equivalent rolling 30-day average of 3,860 lb/hr is expected given that the hourly-varying emissions are randomly assigned and the distribution may vary slightly from year to year. The annual emissions limit for Brandon Shores is 11,019 tons/year, therefore the rolling 30-day rolling average limit of 3,860 lb/hr (equating to 16,907 tons/year) is not maintainable for more than three months of the year or the units would exceed their annual emissions limit.

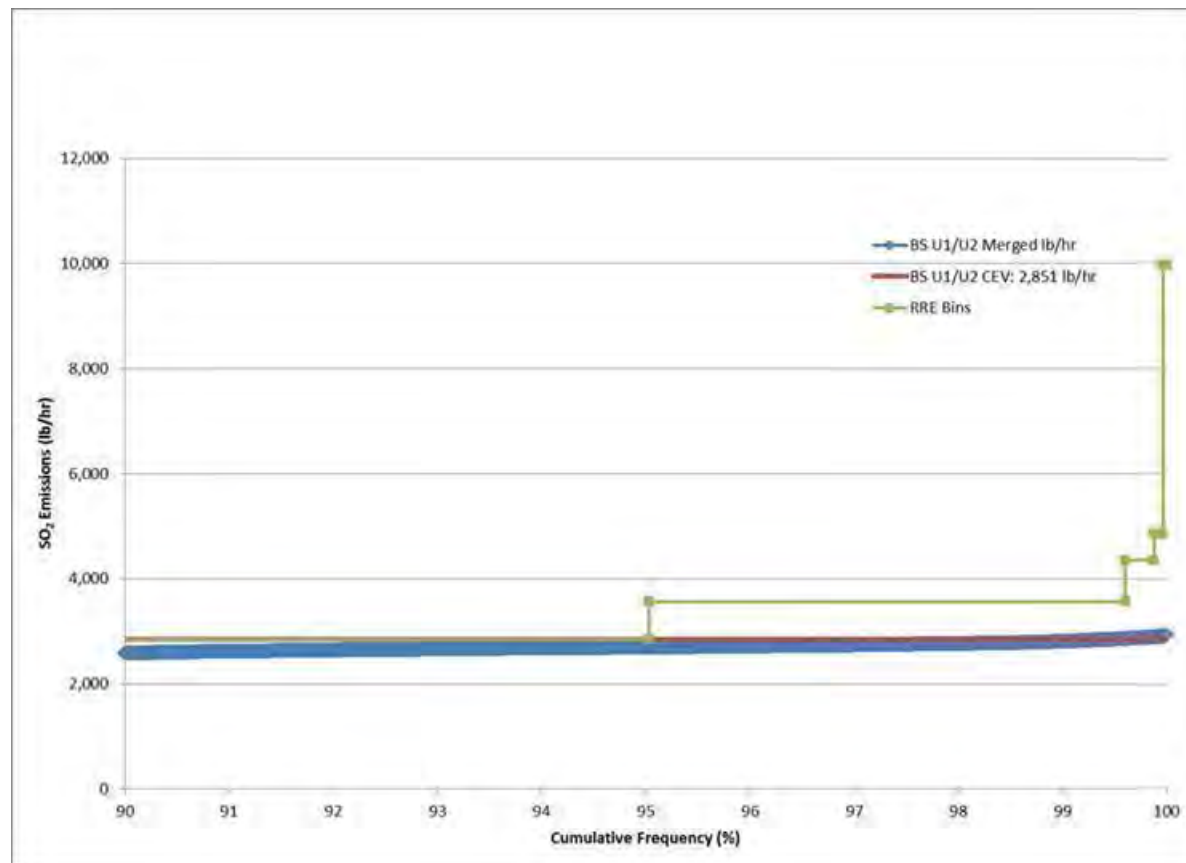
**Figure 6-1: 2014-2016 Adjusted Hourly Emission Rates for Brandon Shores Units 1 and 2 Compared to Short-Term Critical Emission Value for Case 1**



**Figure 6-2: Cumulative Emission Plot for Randomly Reassigned Emissions Compared to 2014-2016 Adjusted Emissions at Brandon Shores – Case 1**



**Figure 6-3: Top 10% of the Cumulative Emission Plot for Randomly Reassigned Emissions Compared to 2014-2016 Adjusted Hourly Emissions at Brandon Shores – Case 1**



**Table 6-1: SO<sub>2</sub> Emissions Distribution for Randomly Reassigned Emission Model Simulation Runs for Brandon Shores – Case 1**

Emission Bin	Hourly SO <sub>2</sub> Emission Rate (lb/hr)	Fraction of Occurrence in 366-Days	Cumulative Fraction of Occurrence	Weighted Hourly Rate (lb/hr)*	No. of Hours
1	1000	0.237443	0.2374	237.44	2080
2	1500	0.224886	0.4623	337.33	1970
3	2000	0.196347	0.6587	392.69	1720
4	2500	0.159817	0.8185	399.54	1400
5	<b>2851</b>	0.131849	0.9503	375.90	1155
6	3564	0.045662	0.9960	162.74	400
7	4348	0.00274	0.9987	11.91	24
8	4850	0.000913	0.9997	4.43	8
9	9980	0.000342	1.0000	3.42	3
<b>Long-Term Avg. SO<sub>2</sub> Emission Rate/Total Hours Per Year</b>				1925.41	8760

\* The weighted average is the emission rate times the fraction of the year that it is occurring. The sum of the weighted averages is the total long-term emission rate.

**Table 6-2: High Emission Events Simulated for Randomly Reassigned Emission Modeling for  
Brandon Shores – Case 1**

Event	Duration (hr)	Sequence of Emissions (lb/hr)	Frequency
Event 1*	3	9980, 9980, 9980	Once per year
Event 2	10	3564 (10x)	3 times per month; 4 times per month (Jan, Feb, Jun, Jul)
Event 3	2	4850, 4850, 4850, 4850	Twice during months of Jan, Feb, Jul, Aug
Event 4	4	4348, 4348, 4348, 4348	Odd Years: Jan, Mar, May, Jul, Sep, Nov Even Years: Feb, Apr, Jun, Aug, Oct, Dec

\* The emission rate determined for Event 1 is based on one unit at the NSPS limit (1.2 lb/MMBtu) + the other unit at the critical emission value (0.2 lb/MMBtu).

**Table 6-3: Long-Term Average Emission Rates for Brandon Shores – Case 1**

Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)	Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)	Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)
1	1932.04	36	1922.41	71	1930.32
2	1932.13	37	1935.60	72	1922.89
3	1924.41	38	1932.59	73	1931.55
4	1932.94	39	1924.03	74	1942.25
5	1920.10	40	1917.40	75	1917.33
6	1936.76	41	1931.66	76	1929.56
7	1936.26	42	1932.38	77	1933.81
8	1929.05	43	1928.86	78	1921.82
9	1922.12	44	1920.50	79	1921.45
10	1929.87	45	1929.64	80	1937.40
11	1923.04	46	1927.50	81	1928.26
12	1919.17	47	1931.62	82	1922.35
13	1933.30	48	1923.98	83	1938.83
14	1917.66	49	1915.96	84	1921.48
15	1935.93	50	1934.93	85	1931.82
16	1930.29	51	1937.63	86	1923.08
17	1941.99	52	1933.38	87	1933.73
18	1916.59	53	1936.07	88	1923.66
19	1928.84	54	1939.10	89	1938.33
20	1921.23	55	1923.19	90	1932.54
21	1931.74	56	1925.20	91	1941.67
22	1938.54	57	1931.35	92	1935.97
23	1920.07	58	1920.67	93	1935.30
24	1932.27	59	1936.94	94	1934.92
25	1928.24	60	1921.36	95	1948.09
26	1936.80	61	1926.30	96	1931.13
27	1931.60	62	1936.01	97	1939.88
28	1932.07	63	1932.41	98	1927.23
29	1918.52	64	1929.08	99	1937.12
30	1936.73	65	1928.29	100	1932.73
31	1940.63	66	1934.15		
32	1921.03	67	1921.87		
33	1935.80	68	1934.06		
34	1927.36	69	1930.82		
35	1947.10	70	1927.83		



**Table 6-4: SO<sub>2</sub> Emissions Distribution for Randomly Reassigned Emission Model Simulation Runs for Brandon Shores – Case 2**

Emission Bin	Hourly SO <sub>2</sub> Emission Rate (lb/hr)	Fraction of Occurrence in 366-Days	Cumulative Fraction of Occurrence	Weighted Hourly Rate (lb/hr)*	No. of Hours
1	2500	0.262785	0.2628	656.96	2302
2	3500	0.261416	0.5242	914.95	2290
3	4500	0.252283	0.7765	1135.27	2210
4	<b>5150</b>	0.223174	0.9997	1149.34	1955
5	9980	0.000342	1.0000	3.42	3
<b>Long-Term Avg. SO<sub>2</sub> Emission Rate/Total Hours Per Year</b>				3859.95	8760

\* The weighted average is the emission rate times the fraction of the year that it is occurring. The sum of the weighted averages is the total long-term emission rate.

**Table 6-5: High Emission Events Simulated for Randomly Reassigned Emission Modeling for Brandon Shores – Case 2**

Event	Duration (hr)	Sequence of Emissions (lb/hr)	Frequency
Event 1*	3	9980, 9980, 9980	Once per year

\* The emission rate determined for Event 1 is based on one unit at the NSPS limit (1.2 lb/MMBtu) + the other unit at the critical emission value (0.2 lb/MMBtu).

**Table 6-6: Long-Term Average Emission Rates for Brandon Shores – Case 2**

Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)	Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)	Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)
1	3880.32	36	3866.27	71	3871.17
2	3872.33	37	3883.50	72	3860.87
3	3858.75	38	3883.14	73	3872.84
4	3873.29	39	3867.80	74	3890.96
5	3854.03	40	3853.26	75	3852.94
6	3874.22	41	3883.37	76	3868.31
7	3882.54	42	3877.37	77	3880.80
8	3868.29	43	3879.92	78	3865.17
9	3866.20	44	3875.86	79	3867.25
10	3868.99	45	3855.67	80	3888.34
11	3862.75	46	3865.00	81	3872.39
12	3856.24	47	3878.46	82	3855.31
13	3875.77	48	3851.14	83	3875.35
14	3855.98	49	3885.56	84	3873.50
15	3881.36	50	3855.49	85	3878.47
16	3872.01	51	3883.37	86	3863.81
17	3889.79	52	3877.37	87	3877.18
18	3855.64	53	3879.92	88	3855.71
19	3865.99	54	3875.86	89	3885.24
20	3865.98	55	3855.67	90	3874.09
21	3877.81	56	3865.00	91	3897.33
22	3881.99	57	3878.46	92	3881.77
23	3857.13	58	3851.14	93	3879.59
24	3872.07	59	3885.56	94	3884.09
25	3862.57	60	3855.49	95	3898.41
26	3887.39	61	3863.92	96	3874.26
27	3870.19	62	3881.32	97	3883.12
28	3880.09	63	3877.24	98	3860.79
29	3854.38	64	3863.28	99	3879.62
30	3881.41	65	3860.56	100	3867.93
31	3887.33	66	3880.71		
32	3861.22	67	3857.10		
33	3875.97	68	3877.26		
34	3869.26	69	3867.76		
35	3897.48	70	3866.73		

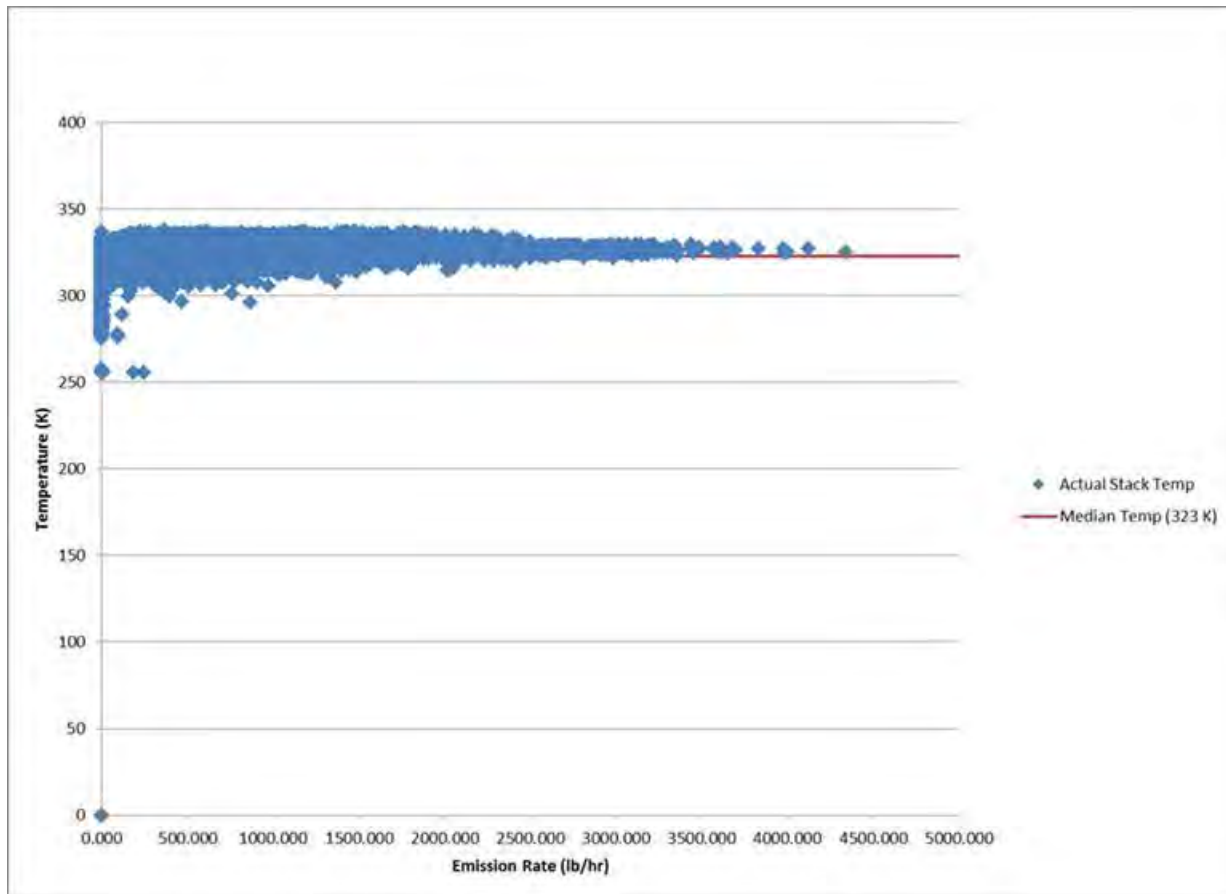
### 6.3.2 Load-Varying Temperature and Velocity for Randomly Reassigned Emissions at Brandon Shores

To ensure that appropriate gas exhaust parameters (temperature and velocity) was accounted for in the Randomly Reassigned Emissions modeling for varying emission loads, representative values were calculated based on historical data for Brandon Shores and Wagner sources. Since Wagner Units 1 and 4 were assumed to be burning oil at full load conditions in all hours modeled, the temperature and velocities are relatively constant. As a result, full-load parameters were used across all emission rates for the Randomly Reassigned Emissions modeling.

For Brandon Shores Units 1 and 2, the gas exit temperature is relatively constant across operating loads due to the saturated plume from the scrubber, as shown in Figure 6-4. Therefore, a median temperature from 2014-2016 data of 323 Kelvin was used for all emissions bins.

The velocity exhaust parameter for Brandon Shores Units 1 and 2 does vary with operating load. The 2014-2016 hourly data for the combined units was divided into bins of 200 lb/hr increments for SO<sub>2</sub> emission rates. The median velocity corresponding to each 200 lb/hr emission bin was analyzed to determine if there are discrete groups that exist. Table 6-7 summarizes the median velocities for each 200 lb/hr bin. There appears to be 3 distinct groups that the velocities can be assigned to an operating load (minimum, mid and full). For emissions between 1,000 lb/hr and 1,399 lb/hr, a median velocity of 12.42 m/s was used, corresponding to minimum operating load. For emissions between 1,400 lb/hr and 2,799 lb/hr, a median velocity of 13.63 m/s was used for mid-load. For full load, emissions greater than 2,800 were modeled with a velocity of 14.41 m/s.

**Figure 6-4: Brandon Shores Combined Units 1 and 2 Exit Temperatures Versus SO<sub>2</sub> Emissions for 2014-2016**



**Table 6-7: Brandon Shores Combined Units 1 and 2 Median Velocities for Range of Emissions for 2014-2016**

Operating Load	Value	Bin 1	Bin 2	Bin 3	Bin 4	Bin 5	Bin 6	Bin 7	Bin 8	Average of the Velocities Per Operating Load (m/s)
Minimum	Lower Emission (lb/hr)	1000	1200							12.42
	Upper Emission (lb/hr)	1200	1400							
	Median Velocity (m/s)	12.18	12.665							
Mid	Lower Emission (lb/hr)	1400	1600	1800	2000	2200	2400	2600		13.63
	Upper Emission (lb/hr)	1600	1800	2000	2200	2400	2600	2800		
	Median Velocity (m/s)	13.326	13.549	13.506	13.713	13.707	13.73049	13.8865		
Full	Lower Emission (lb/hr)	2800	3000	3200	3400	3600	3800	4000	4200	14.41
	Upper Emission (lb/hr)	3000	3200	3400	3600	3800	4000	4200	4400	
	Median Velocity (m/s)	14.354	14.544	14.761	14.163	14.044	14.235	14.4925	14.685	

## 6.4 Wagner Unit 3 Modeled SO<sub>2</sub> Emissions

### 6.4.1 Randomly Reassigned Emissions Analysis for Wagner Unit 3

A representative emission distribution was selected to be modeled for the randomly reassigned modeling runs based on the 2014-2016 actual emission dataset for Wagner Unit 3. The distribution accounts for the frequency and duration observed during that period. The magnitude of the past SO<sub>2</sub> emissions was based on a coal specification of  $\leq 1\%S$ , or  $\sim 1.63$  lb SO<sub>2</sub>/MMBtu). Due to the future reduction in sulfur content planned for Unit 3, the future SO<sub>2</sub> emission magnitudes used in the modeling were based on the observed hourly 2014-2016 heat inputs (MMBtu/hr), the future lower sulfur coal (1.1 lb SO<sub>2</sub>/MMBtu) and 30% control from DSI. The maximum heat input based on 2014-2016 data from Unit 3 was 2,740 MMBtu/hr. For conservatism, the “binned” or step-wise modeled hourly emissions were fit to a frequency curve that included slightly higher rates compared to the smoothed frequency distribution of the actual emissions. The 2014-2016 emission cumulative frequency plots were used in the analysis and were used for the basis of the emission bins to use in the 100 years of modeling. Figure 6-5 provides the 2014-2016 hourly emissions (adjusted for future operations at 1.1 lb/MMBtu and 30% DSI control) to the CEV. Figure 6-6 shows a cumulative distribution of hourly emissions (2014-2016) and Figure 6-7 focuses on the top 10% of the cumulative frequency distribution compared to the adjusted future operation emission rates used in the longer term average (Appendix B) modeling..

A total of 6 emission bins (provided in Table 6-8) were created with emission rates ranging from 1,500 lb/hr to 3,289 lb/hr for Wagner Unit 3. Approximately 96% of the hours were set at or below a reference emission rate of 2,299 lb/hr, which is the critical emission value derived for Case 1. The remaining 4% of the hours contain hourly emission rates greater than this reference rate. The infrequent and higher magnitude emission rates that make up the 4% of the hours from Table 6-9 were modeled as groups, or events, that correspond to potential malfunctions of SO<sub>2</sub> controls for Unit 3. Such prescribed events are characterized by a sequence of emissions with values greater than the short-term critical emission value lasting for pre-defined durations. There are 3 prescribed events based on the following assumptions, all of which would be at full load (max heat input) operation:

- Event 1: Occurs twice a year, each for a period of 72 hours. Emissions are based on 1.1 lb/MMBtu with 0% DSI control (24 hours) and 15% DSI control (48 hours),
- Event 2: Occurs once per month for a period of 8 hours. Emissions are based on 1.1 lb/MMBtu with 15% DSI control, and
- Event 3: Occurs once per month for a period of 8 hours. Emissions are based on 1.1 lb/MMBtu with 0% DSI control.

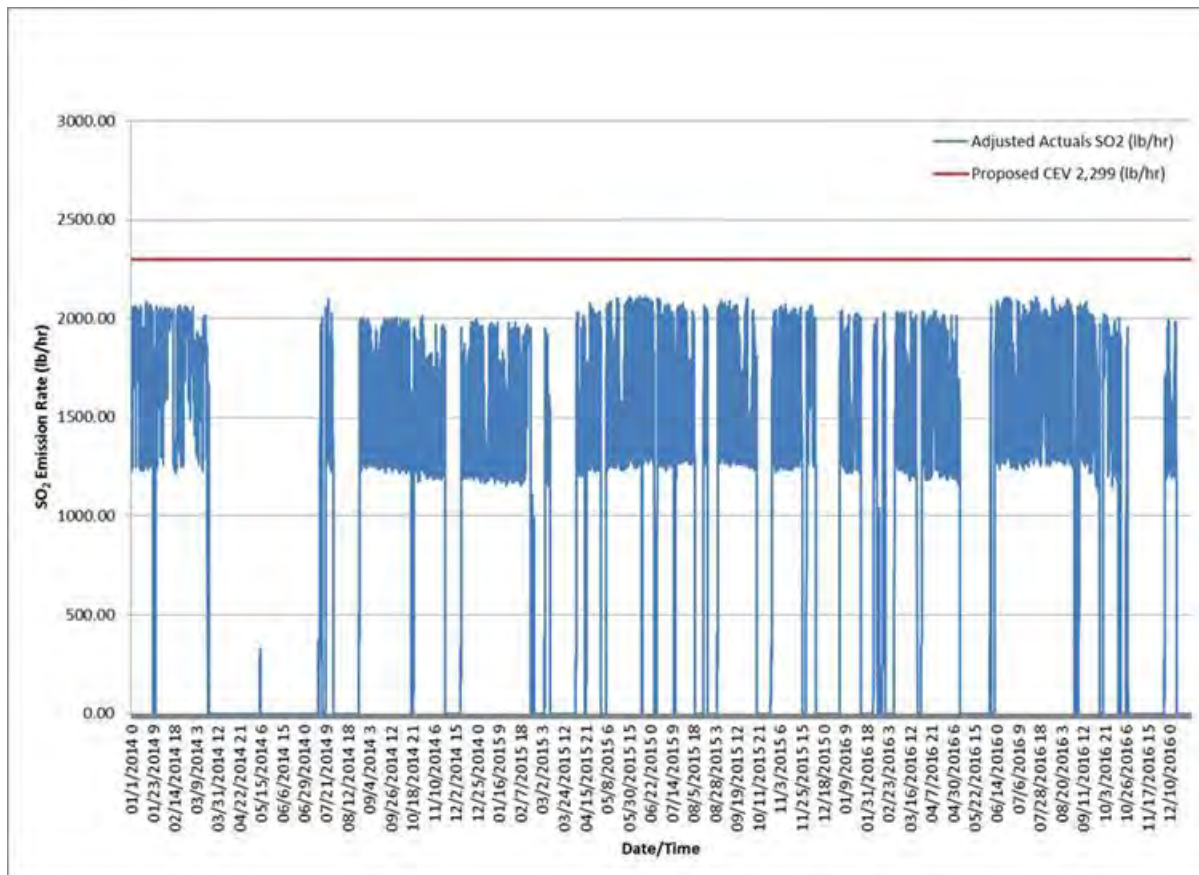
As shown in Table 6-8, the weighted hourly emission rate (annual average) of all the emission bins used in the NAAQS-compliant RRE modeling for Case 1 is equal to 1,904 lb/hr, which would be proposed as the rolling 30-day, mass emission limit for Wagner Unit 3. This long-term emission rate represents a discount of more than 17% from the 1-hour CEV emission rate. Furthermore, the rolling 30-day averaged emissions modeled would be higher than the annual average given the seasonality of the distribution for this source, thus the future limit is conservative.

The process for building 365-day randomly reassigned emission sets was repeated 100 times in order to develop the hourly emission files for the 100 AERMOD simulations. Appendix F of this report shows time series plots of the 100 simulated years of the hourly emissions.

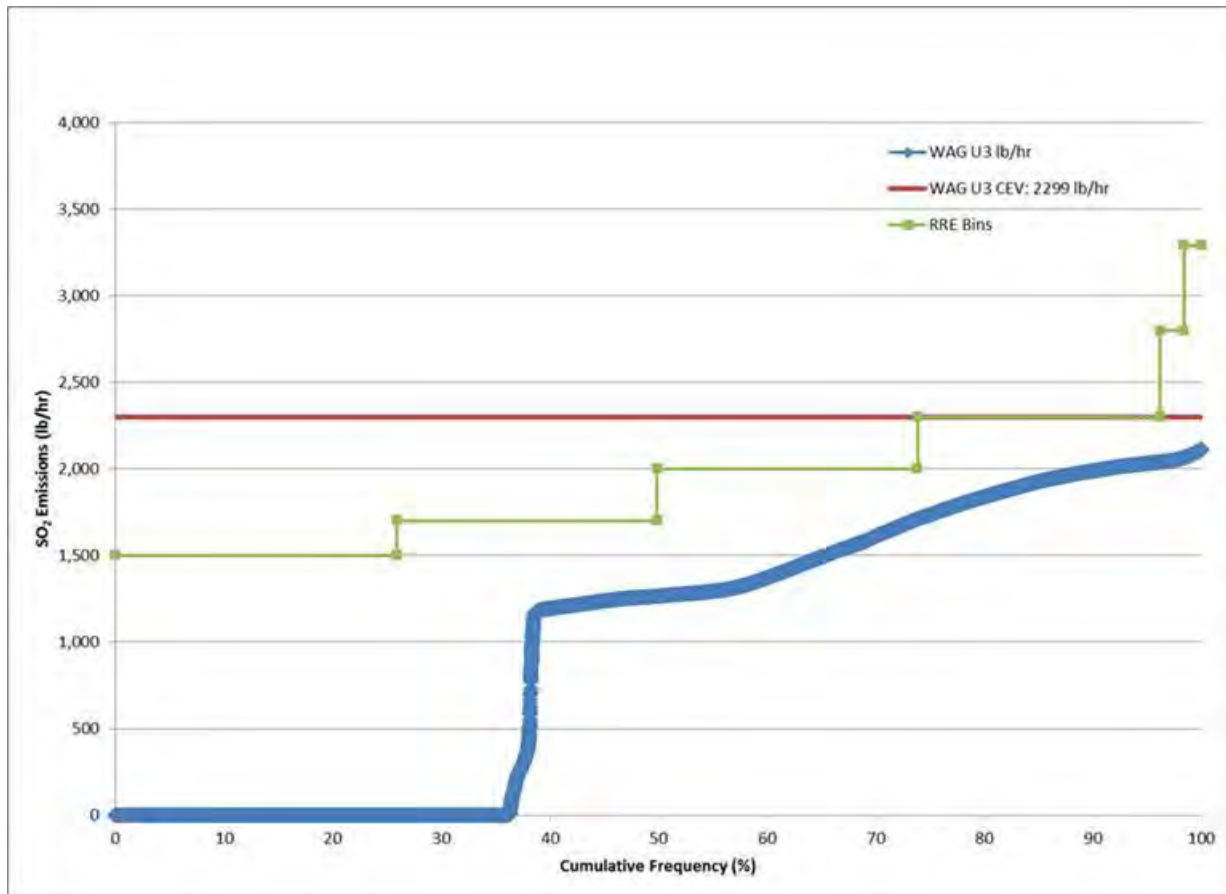
The 100 AERMOD simulations using randomly reassigned 1-hour emission rates for Wagner 3 were run in tandem with randomly reassigned 1-hour emission rates for Brandon Shores, Wagner Units 1 and 4 along with a constant CEV 1-hour emission rate for Crane and Wheelabrator plus regional background (HU-Beltsville monitor for 2014-2016 as discussed in Section 4.7). Table 6-10 lists the long-term average

emission rates (representative of a 30-day average) determined for each model simulation that are based on the average of the randomly reassigned hourly emission distribution for that simulation year. Some slight variability from the target equivalent rolling 30-day average of 1,904 lb/hr is expected given that the hour-varying emissions are randomly assigned and the distribution may vary slightly from year to year

**Figure 6-5: 2014-2016 Adjusted Actual Hourly SO<sub>2</sub> Emission Rates (Based on 1.1 lb/MMBtu Heat Input) for Wagner Unit 3 Compared to Short-Term Critical Emission Value for Case 1**

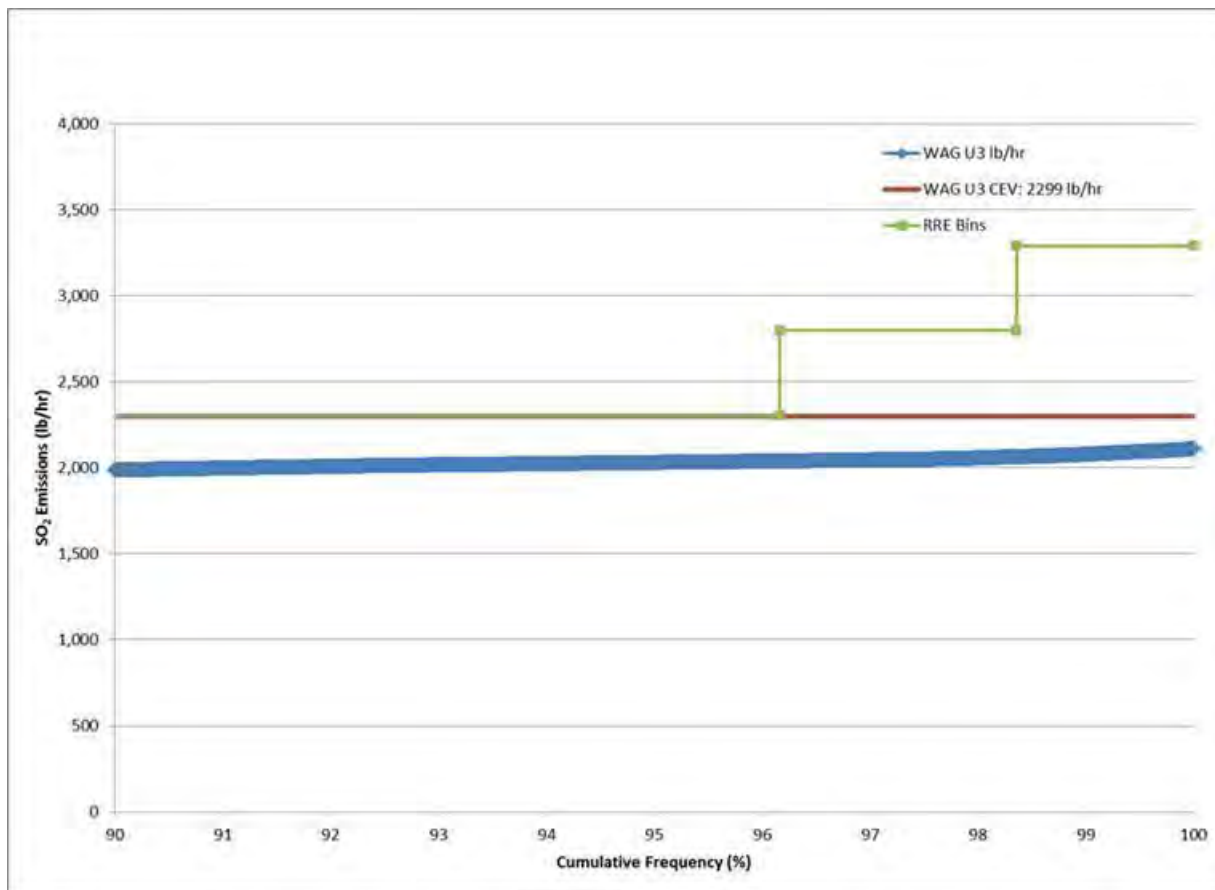


**Figure 6-6: Cumulative Emission Plot for Randomly Reassigned Emissions Compared to 2014-2016 Adjusted Hourly SO<sub>2</sub> Emissions (Based on 1.1 lb/MMBtu Heat Input) at Wagner Unit 3**





**Figure 6-7: Top 10% of the Cumulative Emission Plot for Randomly Reassigned Emissions Compared to 2014-2016 Adjusted Hourly SO<sub>2</sub> Emissions (Based on 1.1 lb/MMBtu Heat Input) at Wagner Unit 3**



**Table 6-8: SO<sub>2</sub> Emissions Distribution for Randomly Reassigned Emission Model Simulation Runs for Wagner Unit 3 – Case 1**

Emission Bin	Hourly SO <sub>2</sub> Emission Rate (lb/hr)	Fraction of Occurrence in 366-Days	Cumulative Fraction of Occurrence	Weighted Hourly Rate (lb/hr)*	No. of Hours
1	1500	0.259132	0.2591	388.70	2270
2	1700	0.239726	0.4989	407.53	2100
3	2000	0.239726	0.7386	479.45	2100
4	<b>2299</b>	0.223059	0.9616	512.81	1954
5	2796	0.021918	0.9836	61.28	192
6	3289	0.016438	1.0000	54.07	144
<b>Long-Term Avg. SO<sub>2</sub> Emission Rate/Total Hours Per Year</b>				1903.85	8760

\* The weighted average is the emission rate times the fraction of the year that it is occurring. The sum of the weighted averages is the total long-term average emission rate.

**Table 6-9: High Emission Events Simulated for Randomly Reassigned Emission Modeling for  
Wagner Unit 3 – Case 1**

Event	Duration (hr)	Sequence of Emissions (lb/hr)	Frequency
Event 1	72	2796(24x), 3289(24x), 2796 (24x)	Jan/Jul during years 1, 7, 13... Feb/Aug during years 2, 8, 14... Mar/Sep during years 3, 9, 15... Apr/Oct during years 4, 10, 16... May/Nov during years 5, 11, 17... Jun/Dec during years 6, 12, 18...
Event 2	8	2796(8x)	Once per month
Event 3	8	3289(8x)	Once per month

**Table 6-10: Long-Term Average Emission Rates for Wagner Unit 3 – Case 1**

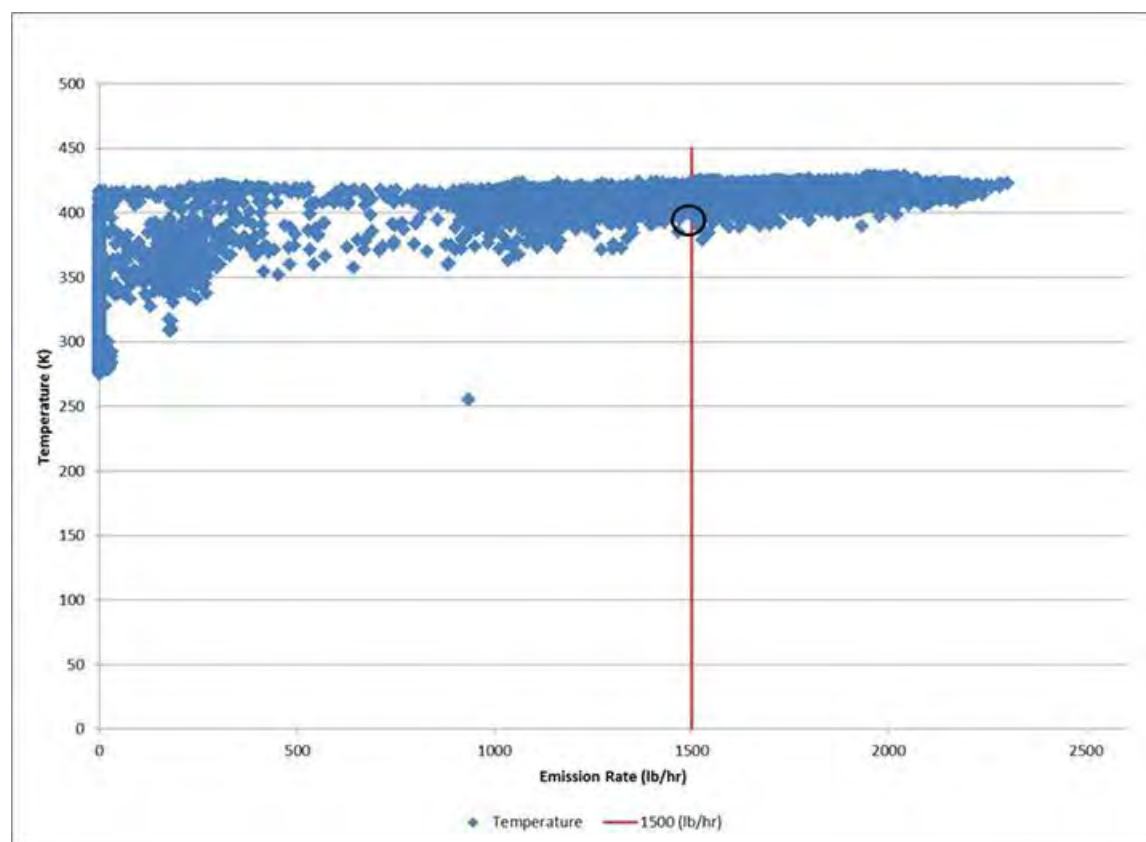
Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)	Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)	Model Run Iteration	Average SO <sub>2</sub> Emission Rate (lb/hr)
1	1905.87	36	1902.58	71	1907.45
2	1905.78	37	1907.48	72	1903.65
3	1902.70	38	1906.61	73	1904.87
4	1910.13	39	1903.64	74	1910.02
5	1899.90	40	1897.88	75	1898.98
6	1905.27	41	1905.77	76	1904.34
7	1899.63	42	1906.04	77	1907.35
8	1904.57	43	1903.63	78	1902.57
9	1900.84	44	1901.25	79	1901.94
10	1904.02	45	1905.38	80	1909.29
11	1902.71	46	1902.96	81	1905.27
12	1898.92	47	1904.55	82	1900.53
13	1905.19	48	1901.07	83	1907.31
14	1899.53	49	1899.15	84	1902.68
15	1909.18	50	1907.93	85	1907.10
16	1905.51	51	1908.27	86	1901.27
17	1910.71	52	1905.17	87	1906.11
18	1898.55	53	1906.68	88	1900.88
19	1902.79	54	1908.38	89	1909.41
20	1902.02	55	1900.37	90	1907.34
21	1905.75	56	1902.42	91	1911.75
22	1907.77	57	1907.04	92	1907.94
23	1899.79	58	1900.05	93	1905.58
24	1905.87	59	1910.15	94	1907.51
25	1902.66	60	1900.47	95	1912.99
26	1908.89	61	1903.17	96	1905.12
27	1903.88	62	1906.46	97	1908.12
28	1907.90	63	1906.63	98	1902.39
29	1902.55	64	1903.28	99	1907.54
30	1908.47	65	1903.23	100	1905.16
31	1908.81	66	1907.55		
32	1900.46	67	1900.66		
33	1906.43	68	1906.07		
34	1903.98	69	1905.94		
35	1911.01	70	1904.51		

### 6.4.2 Load-Varying Temperature and Velocity for Randomly Reassigned Emissions at Wagner Unit 3

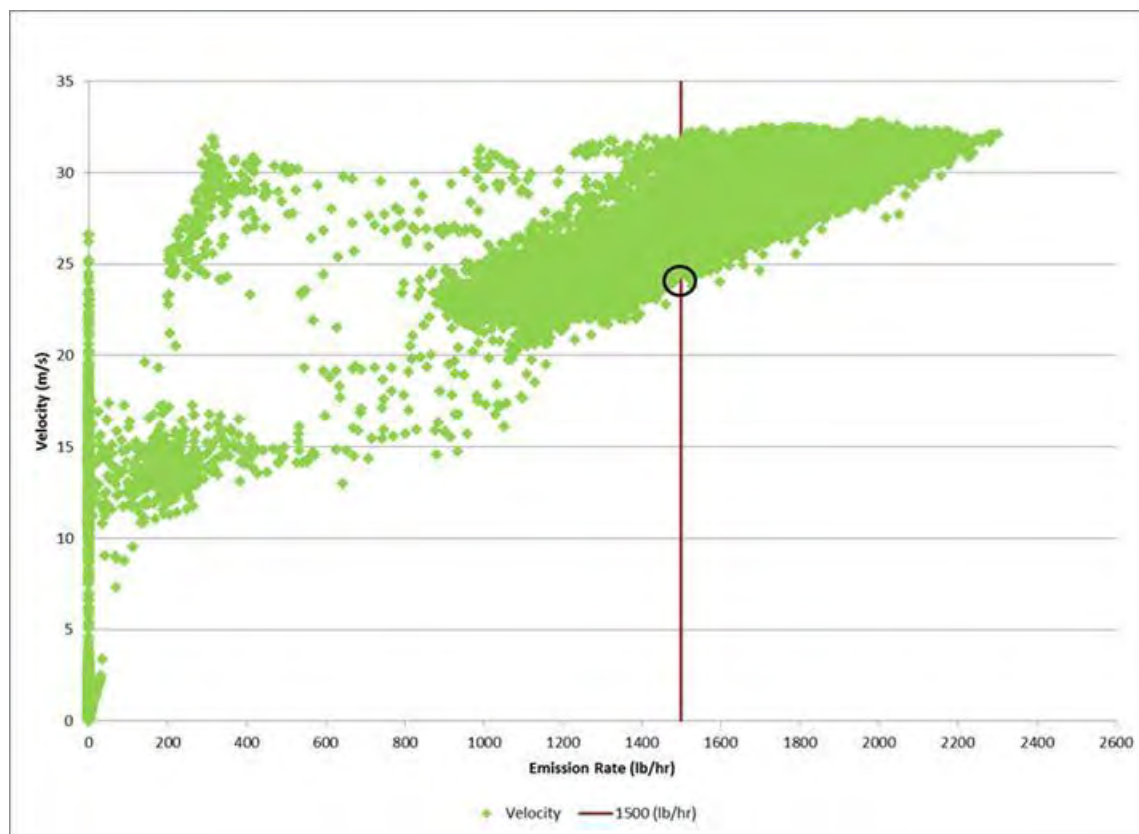
To ensure that appropriate gas exhaust parameters (temperature and velocity) were accounted for in the Randomly Reassigned Emissions modeling for varying emission loads, representative values were calculated based on historical data for Wagner Unit 3.

Figures 6-8 and 6-9 show the temperature versus adjusted emission rate and velocity versus adjusted emission rate, respectively. A temperature or velocity value would be assigned to a randomly reassigned emission rate bin based upon where the intersection of that emission rate meets the temperature or velocity data. To be conservative, we would select a temperature and velocity value that conservatively resides on the low end for a given randomly reassigned emission rate. For example, an emission rate of 1,500 lb/hr would yield a temperature of 394.44 K and a velocity of 24.107 m/s.

**Figure 6-8: Wagner Unit 3 Exit Temperatures Versus Future SO<sub>2</sub> Emissions for 2014-2016**



**Figure 6-9: Wagner Unit 3 Exit Velocity Versus Future SO<sub>2</sub> Emissions for 2014-2016**



## 6.5 Wagner Units 1 and 4 Modeled SO<sub>2</sub> Emissions

The current Title V permit for Wagner specifies that the oil burned shall not exceed 1% sulfur, which effectively limit SO<sub>2</sub> emissions from Unit 1 to 1,540 lb/hr and SO<sub>2</sub> emissions from Unit 4 to 4,550 lb/hr. Based on historical emissions from 2014-2016, these units do not typically operate more than 6 percent of the hours in any calendar year. To ensure emissions from these units are kept consistent with how they were modeled in this attainment demonstration Talen Energy proposes to limit the operating hours for both units to 438 hours per year (5%) each and to use of low-sulfur ( $\leq 0.3\%$ ) No. 6 oil, as discussed in Section 3.1.2. The equivalent SO<sub>2</sub> emission rates for modeling would be 480 lb/hr (Unit 1) and 1,350 lb/hr (Unit 4). These new maximum 1-hour emission rates represent a significant reduction (approximately 70%) from the current emission limits.

As described above, the normal (95<sup>th</sup> percentile) operations of these units is to be off, and as a result of the infrequent operation of Units 1 and 4, the critical emission values for these units were set to zero for the 1-hour CEV modeling for the area (both Case 1 and Case 2).

Consistent with the Appendix B of the EPA's April 23, 2014 guidance, which was used for the normally operating sources (Brandon Shores and Wagner Unit 3), emissions from Wagner Units 1 and 4 were included as other high emission events in this Appendix B modeling for both Case 1 and Case 2. In other words, these infrequent emissions above the CEV were treated the same as the infrequent emissions above the CEV for the normally operating units.

### 6.5.1 Randomly Reassigned Emissions Analysis for Wagner Unit 1

As described in the modeling protocol, Units 1 and 4 primarily operate during the winter (December-March) and summer (June-August) months and the RRE distributions for these sources include more operating hours during these periods. Based on recent 3-year historical data from 2014-2016, Unit 1 did not operate more than 12 hours on oil during the shoulder seasons of April-May and September-November, but Unit 4 operated 17 hours during the shoulder seasons; therefore, both units were conservatively modeled for 20 hours of operation for each month. The maximum heat input based on 2014-2016 data for Unit 1 was 1,491 MMBtu/hr. The proposed RRE distribution for Unit 1 is summarized in Table 6-11. To account for possible operation of these sources in the shoulder seasons, the units were assumed to operate in every month of the year in order to add more conservatism to the modeling analysis and to avoid seasonal operational limits on these units. Note that in the shoulder seasons, the unit was modeled running on oil for 20 hours per month, while the modeling assumed 40 hours per month during summer and winter months. The unit was modeled with two events of operations; the first event was 20 consecutive hours (occurring either once or twice per month), while the second event had a duration of 96 consecutive hours. The second event was simulated to occur only twice a year, once each in the winter and summer months. The total number of oil operating hours per year for Units 1 was modeled at 572 hours. This number of hours is conservatively higher than the proposed 438 operating hours per year limit. As a reminder, Wagner 1 is capable of operating on natural gas or fuel oil and most recently operated primarily on natural gas.

The process for building 365-day randomly reassigned emission sets was repeated 100 times in order to develop the hourly emission files for the 100 AERMOD simulations. Appendix D of this report shows time series plots of the 100 simulated years of the hourly emissions.

For all of the 572 operating hours that Unit 1 was modeled in the 100-iteration Case 1 RRE runs, full-load emissions (480 lb/hr) and stack parameters were used. This added a significant level of conservatism into the modeling analysis as these units typically ramp up and down, or may sit at part load depending on demand. Furthermore, the operating times for both Units 1 and 4 were synchronized in the modeling; therefore, if one of the units was running, then the other was also simulated to emit for that same period. Since Unit 1 operations (i.e., high emission events) were added to the RRE simulations for all the other sources (Brandon Shores, Wagner Unit 3), which were modeled as being in operation at all times, the RRE modeling is very conservative.

**Table 6-11: Events and Corresponding Durations Modeled for Unit 1 Per Month for 100-Iterations of RRE Runs**

Month	RRE Event 1	RRE Event 2**
January	40	96
February	40	
March	40	
April	20	96
May	20	
June	40	
July	40	
August	40	
September	20	
October	20	
November	20	
December	40	See Jan-Mar
	<b>380</b>	<b>192</b>
<b>Total</b>	<b>572</b>	

\*\* Event 2 occurred twice per year with a 96-hour event in the highlighted winter and summer months. The month for which this 96-hour event was triggered within these seasons was randomly varied for each RRE simulation run.

## 6.5.2 Randomly Reassigned Emissions Analysis for Wagner Unit 4

As described in the modeling protocol, Units 1 and 4 primarily operate during the winter (December-March) and summer (June-August) months and the RRE distributions for these sources include more operating hours during these periods. Based on recent 3-year historical data from 2014-2016, Unit 1 did not operate more than 12 hours on oil during the shoulder seasons of April-May and September-November, but Unit 4 operated 17 hours during the shoulder seasons; therefore, both units were conservatively modeled for 20 hours of operation for each month. The maximum heat input based on 2014-2016 data for Unit 4 was 4,197 MMBtu/hr. The proposed RRE distribution for Unit 4 is summarized in Table 6-12. To account for possible operation of these sources in the shoulder seasons, the units were modeled in every month of the year in order to add more conservatism to the modeling analysis and to avoid seasonal operational limits on these units. Note that in the shoulder seasons, the unit was modeled to be oil-fired for 20 hours for each month. The unit was modeled with two events of operations; the first event is 20 consecutive hours (occurring once in shoulder seasons and twice in active seasons), while the second event had a duration of 96 consecutive hours. The second event was simulated to occur only twice a year, once each in the winter and summer months. These events are identical to those identified for Unit 1 in Section 6.5.1. The total number of operating hours for Units 4 was simulated to be 572 hours per year.

The process for building 365-day randomly reassigned emission sets was repeated 100 times in order to develop the hourly emission files for the 100 AERMOD simulations. Appendix E of this report shows time series plots of the 100 simulated years of the hourly emissions.

For all of the 572 operating hours that Unit 4 was modeled in the 100-iteration RRE runs, full-load emissions (1,350 lb/hr) and stack parameters were used. This adds a significant layer of conservatism into the modeling analysis as these units typically ramp up and down. Furthermore, the operating times for both Units 1 and 4 were synchronized in the modeling; therefore if one of the units was running, then the other unit was simulated to emit for that same period.

**Table 6-12: Events and Corresponding Durations Modeled for Unit 4 Per Month for 100-Iterations of RRE Runs**

Month	RRE Event 1	RRE Event 2**
January	40	96
February	40	
March	40	
April	20	96
May	20	
June	40	
July	40	
August	40	
September	20	
October	20	
November	20	
December	40	See Jan-Mar
	<b>380</b>	<b>192</b>
<b>Total</b>	<b>572</b>	

\*\* Event 2 occurred twice per year with a 96 hour event in the highlighted winter and summer months. The month for which this 96-hour event was triggered within these seasons was randomly varied for each RRE simulation run.

## 6.6 Results of the RRE Modeling

### 6.6.1 Case 1 Results

As described above, 100 AERMOD simulations were run using randomly reassigned 1-hour emission rates for Brandon Shores (merged stack) and Wagner Units 1, 3, and 4 along with a constant CEV 1-hour emission rates for Crane and Wheelabrator plus regional background (HU-Beltsville monitor for 2014-2016 as discussed in Section 4.7). These 100 modeling runs, with 5-year running averages of the 99<sup>th</sup> percentile peak daily 1-hour maximum at each receptor, all resulted in design concentrations that comply with the NAAQS.

The highest 5-year average 99<sup>th</sup> percentile daily maximum SO<sub>2</sub> concentration of the 100 model simulations, for Case 1, was 194.91 µg/m<sup>3</sup> (occurred in simulation run 87) and is in compliance with the NAAQS. Figure 6-10 shows the design concentration isopleths for RRE simulation 87 with the highest impact located approximately 3.6 km to the west-northwest of the Fort Smallwood Complex. A secondary maximum impact of 194.34 µg/m<sup>3</sup> is located about 1.4 km west of Crane, as shown in Figure 6-10.

Tables 6-13 and 6-14 present the source culpability at the peak receptor near each plant for the controlling concentrations of RRE simulation run 87. The total concentration at the receptor is presented in the first row, while the remaining rows present the source contributions as concentrations in µg/m<sup>3</sup> and also as percentages of the total. A visual representation of these source capability results along with the controlling CEV peak impact receptors near Fort Smallwood and Crane are shown in Figures 6-11 and 6-12, respectively.

Appendix G provides a table of the highest 5-year average 99<sup>th</sup> percentile daily maximum SO<sub>2</sub> concentrations for each simulation run for Case 1.



As part of EPA Region 3's initial review and comments on this modeling demonstration, they provided additional statistics and observations based on the proposed RRE modeling approach. For the controlling RRE simulation run 87, EPA Region 3 provided an hour of day plot (Figure 6-13) of the combined Fort Smallwood hourly emission and included the following comment:

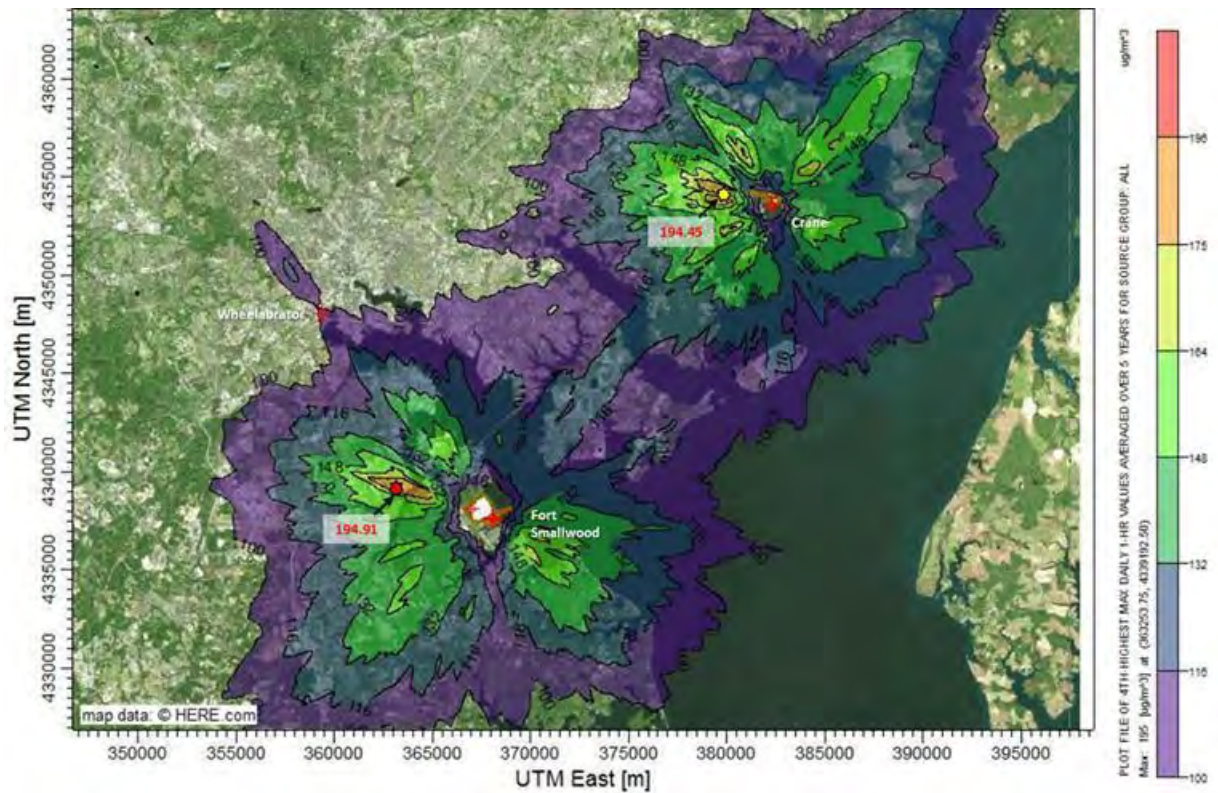
“... hourly model emission rates exceeding the combined CEV-1 values for Brandon Shores and Wagner Unit 3 are occurring during the day time hours when peak model concentrations are expected to occur and demonstrate that emissions are not being overly isolated to overnight hours when the model shows peak concentrations are not expected to occur. Note that the average combined hourly emissions are below the combined CEV-1 for Brandon Shores and Wagner Unit 3 (5,150 lbs/hr). Based on the standard deviation, it appears a substantial number of hours during the RRE simulations have combined emissions below the combined CEV; approximately 87% of the hours during the simulation are below this emission threshold. As noted in AECOM's report, the modeled hourly emissions are based on historic emission rates at Fort Smallwood and include a little over 12% of the hours where emissions exceed the combined CEV for Brandon Shores and Fort Smallwood.”

Table 6-15 provides a comparison of the model concentrations at the peak receptor location for the Case 1 CEV run and the Case 1 RRE simulation run 87. EPA Region 3 provided the following assessment based on the results from this table:

“The peak receptor locations, and yearly distributions of 4<sup>th</sup> high concentrations are remarkably similar given that the bulk of the RRE Case 87 hours had combined Fort Smallwood emissions below the CEV-1 limit (5,150 lbs/hr). This appears to support the RRE methodology in regards to establishing the proposed emission rates that will meet the 1-hour SO<sub>2</sub> NAAQS.”

Because of the voluminous amount of data used in support of these calculations, these data are not included in this report, but are rather included with the modeling files provided to MDE and EPA.

**Figure 6-10: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area for Controlling Case 1 RRE Simulation Run 87**



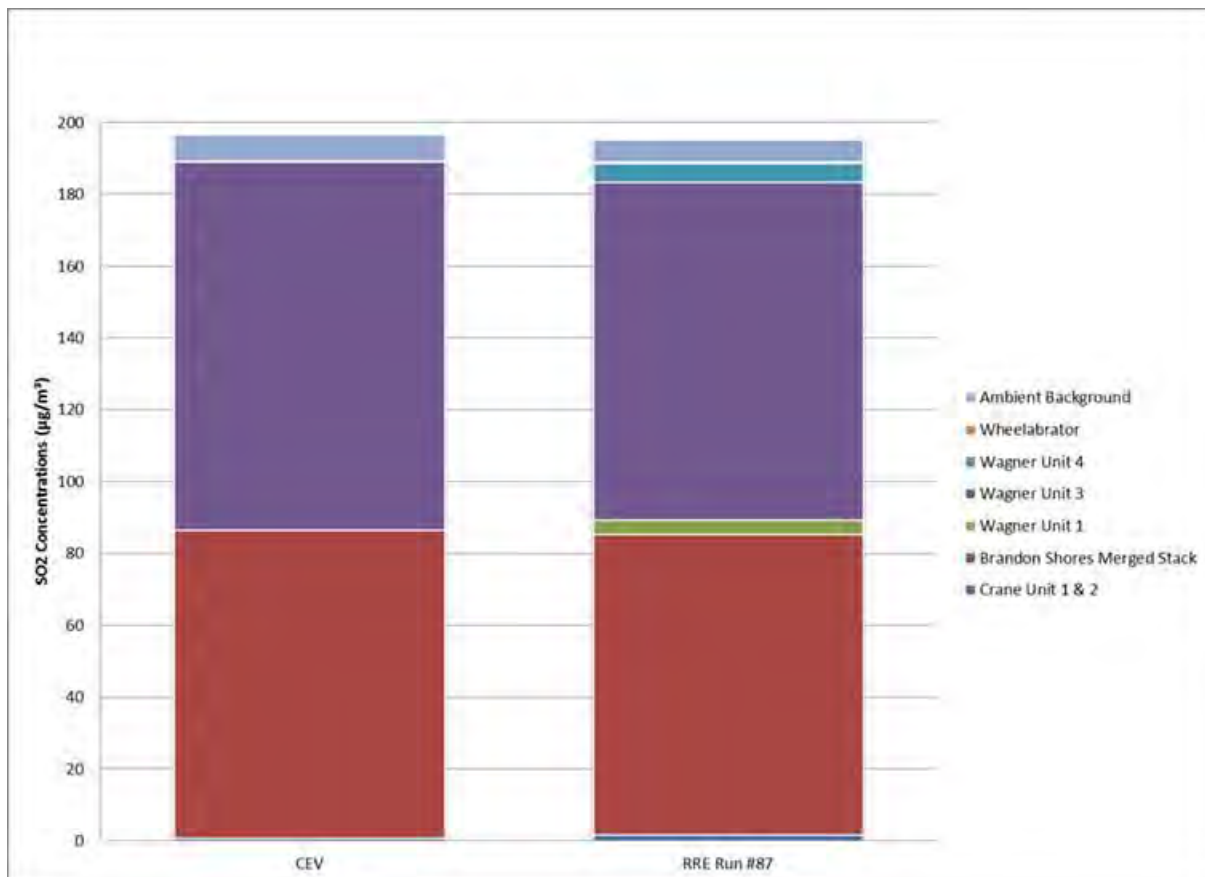
**Table 6-13: Source Contributions for Peak Impact near Fort Smallwood Complex for Controlling Case 1 RRE Simulation Run 87**

Source	Concentration (µg/m <sup>3</sup> )	Percent Contribution
Crane Unit 1 & 2	1.57	0.8%
Brandon Shores Merged Stack	83.68	42.9%
Wagner Unit 1	4.02	2.1%
Wagner Unit 3	93.97	48.2%
Wagner Unit 4	5.18	2.7%
Wheelabrator	0.5	0.3%
Ambient Background	5.99	3.1%
Peak Impact (Total)	194.91	100%

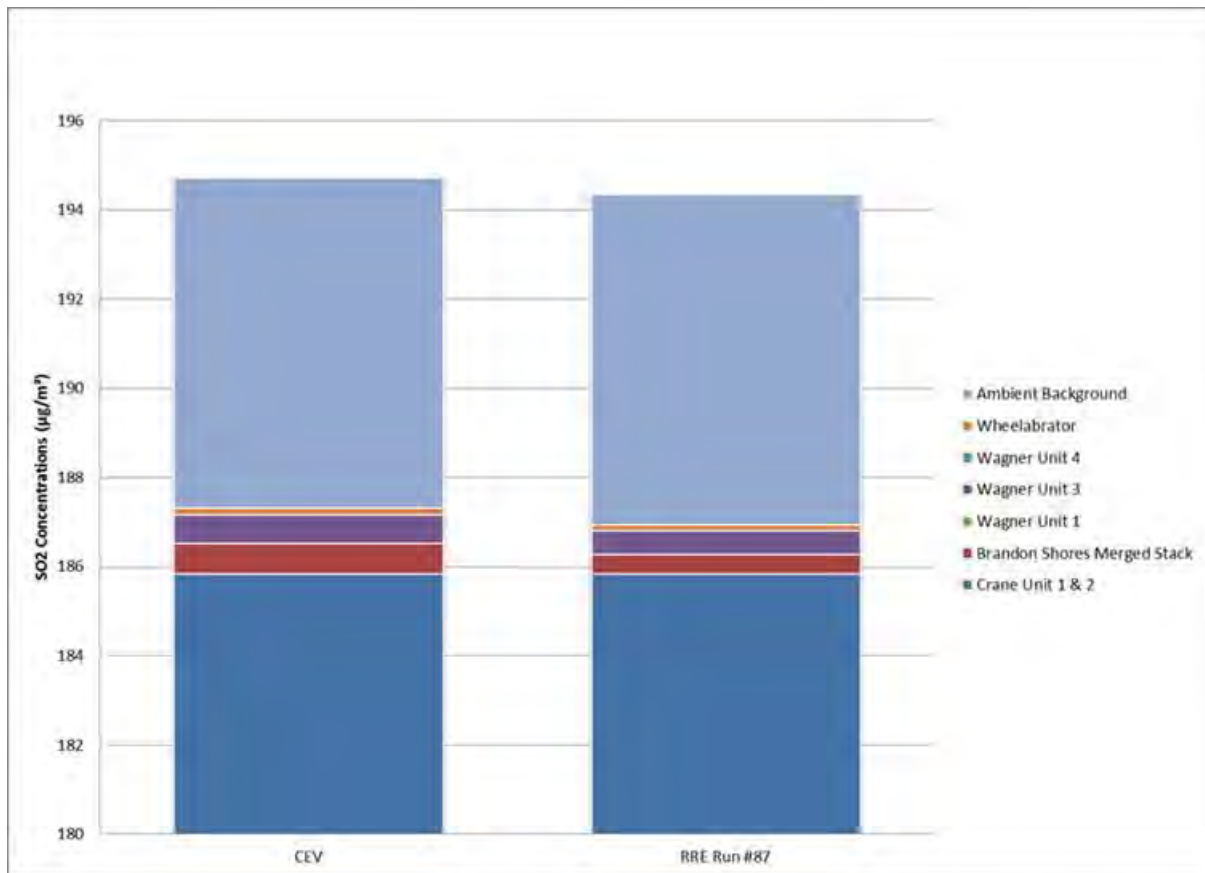
**Table 6-14: Source Contributions for Peak Impact near Crane for Controlling Case 1 RRE Simulation Run 87**

Source	Concentration ( $\mu\text{g}/\text{m}^3$ )	Percent Contribution
Crane Unit 1 & 2	185.94	95.6%
Brandon Shores Merged Stack	0.44	0.2%
Wagner Unit 1	0.0	0.0%
Wagner Unit 3	0.52	0.3%
Wagner Unit 4	0.0	0.0%
Wheelabrator	0.14	0.1%
Ambient Background	7.41	3.8%
Peak Impact (Total)	194.45	100%

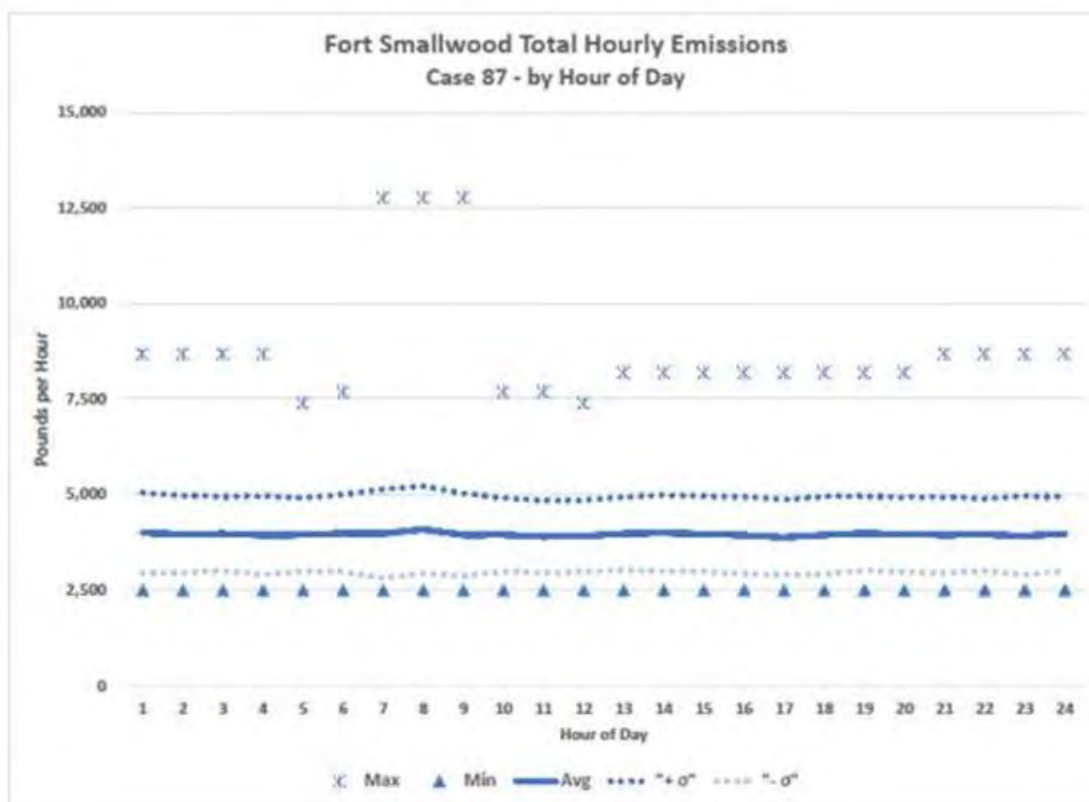
**Figure 6-11: Source Contribution Charts for Peak Impact near Fort Smallwood for Case 1 CEV and Controlling RRE Simulation Run 87**



**Figure 6-12: Source Contribution Charts for Peak Impact near Crane for Case 1 CEV and Controlling RRE Simulation Run 87**



**Figure 6-13: Fort Smallwood Total Hourly SO<sub>2</sub> Emissions for Controlling RRE Simulation Run 87 by Hour of Day**



**Table 6-15: Comparison of Peak Model Receptor Design Concentrations from Case 1 CEV and Controlling RRE Simulation Run 87**

Run	Easting	Northing	5-Year Avg.	2012 Max	2013 Max	2014 Max	2015 Max	2016 Max
CEV-1	363053.75	4339692.50	196.40	217.85	217.76	207.92	178.14	160.34
RRE 87	363253.75	4339192.50	194.91	206.24	219.99	230.67	164.07	153.60

## 6.6.2 Case 2 Results

As described above, 100 AERMOD simulations were run using randomly reassigned 1-hour emission rates for Brandon Shores (merged stack), Wagner Units 1 and 4, with a constant CEV 1-hour emission rate for Crane and Wheelabrator plus regional background (HU-Beltsville monitor for 2014-2016 as discussed in Section 4.7). These modeling runs, with 5-year running averages of the 99<sup>th</sup> percentile peak daily 1-hour maximum at each receptor, all resulted in design concentrations that comply with the NAAQS.

The highest 5-year average 99<sup>th</sup> percentile daily maximum SO<sub>2</sub> concentration of the 100 model simulations for Case 2, was 196.09 µg/m<sup>3</sup> (occurred in simulation run 97) and is in compliance with the NAAQS. Figure 6-13 shows the design concentration isopleths for RRE simulation 97 with the highest



impact located approximately 1.4 km to the west of Crane. A secondary maximum impact of 166.70  $\mu\text{g}/\text{m}^3$  is located about 3.5 km southwest of the Fort Smallwood Complex, as shown in Figure 6-13. PM<sub>2.5</sub>

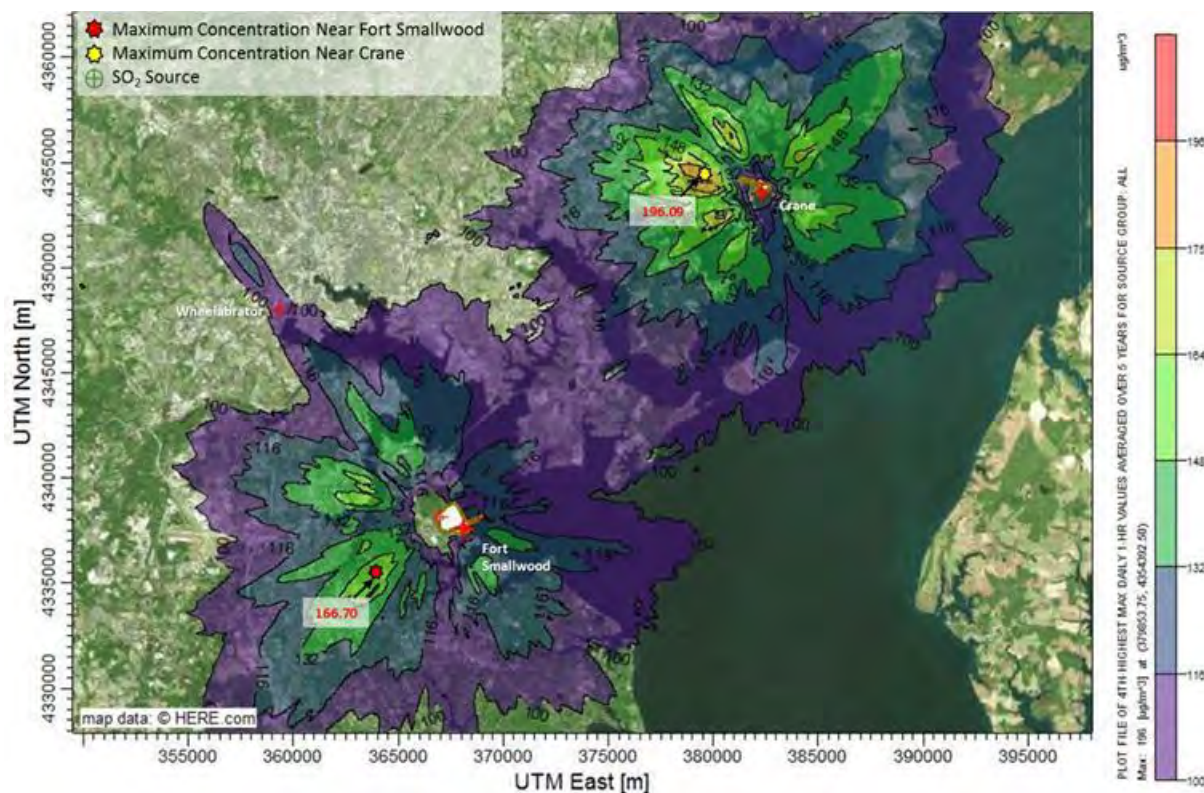
Tables 6-15 and 6-16 present the source culpability at the peak receptor near each plant for the controlling concentrations of RRE simulation run 87. The total concentration at the receptor is presented in the first row, while the remaining rows present the source contributions as concentrations in  $\mu\text{g}/\text{m}^3$  and also as percentages of the total. A visual representation of these source capability results along with the controlling CEV peak impact receptors near Fort Smallwood and Crane are shown in Figures 6-14 and 6-15, respectively.

Table 6-18 provides a comparison of the model concentrations at the peak receptor location for the Case 2 CEV run and the Case 2 RRE simulation run 97. The peak receptor for both runs is the same and as shown in Section 6.6.1 for Case 1, the yearly distributions of the 4<sup>th</sup> high concentrations are similar.

Appendix H provides a table of the highest 5-year average 99<sup>th</sup> percentile daily maximum SO<sub>2</sub> concentrations for each simulation run for Case 2.

Because of the voluminous amount of data used in support of these calculations, these data are not included in this report, but are rather included with the modeling files provided to MDE and EPA.

**Figure 6-14: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Design Concentrations and Peak Impacts for the Entire Non-Attainment Area for Controlling Case 2 RRE Simulation Run 97**



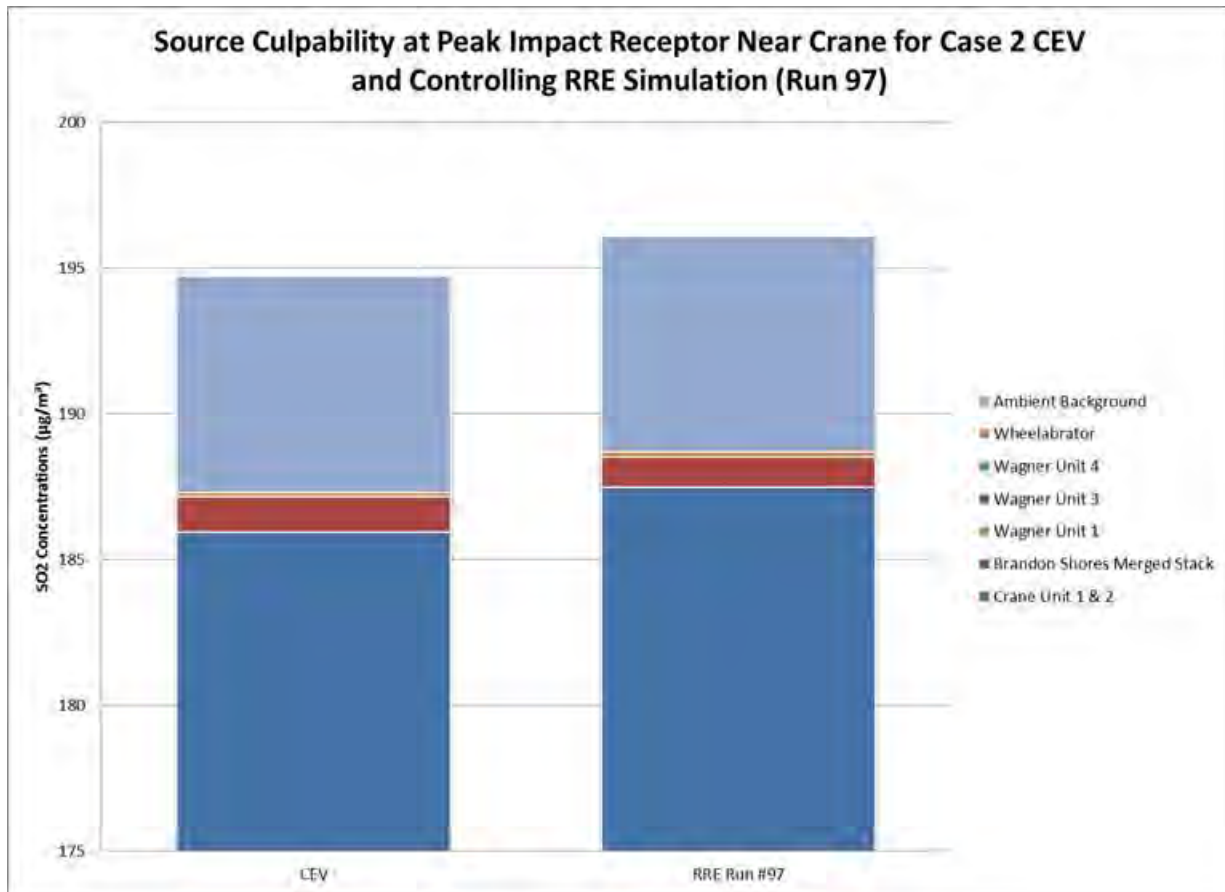
**Table 6-16: Source Contributions for Peak Impact near Crane for Controlling Case 2 RRE Simulation Run 97**

<b>Source</b>	<b>Concentration (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Percent Contribution</b>
Crane Unit 1 & 2	187.48	95.6%
Brandon Shores Merged Stack	1.03	0.5%
Wagner Unit 1	0.0	0.0%
Wagner Unit 3	0.0	0.0%
Wagner Unit 4	0.0	0.0%
Wheelabrator	0.18	0.1%
Ambient Background	7.40	3.8%
Peak Impact	196.09	100%

**Table 6-17: Source Contributions for Peak Impact near Fort Smallwood Complex for Controlling Case 2 RRE Simulation Run 97**

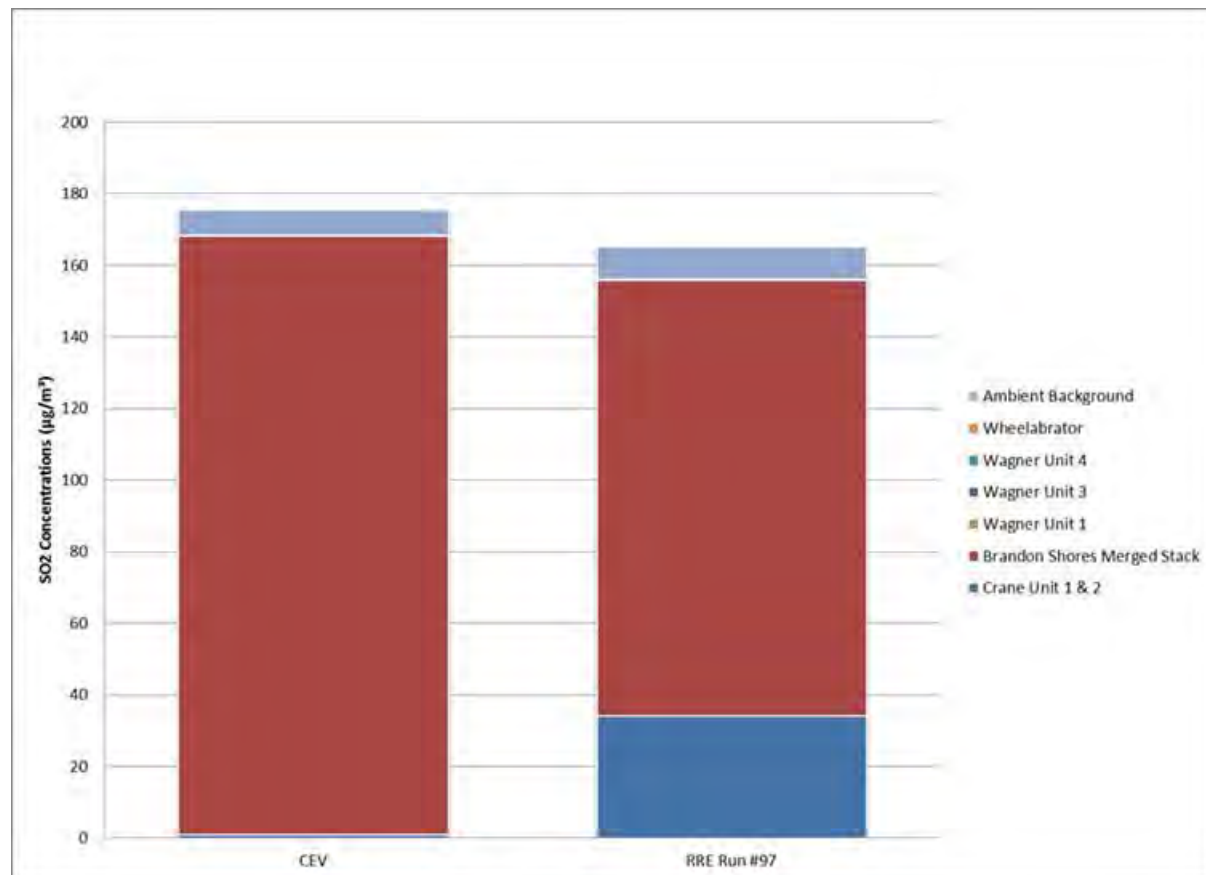
<b>Source</b>	<b>Concentration (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Percent Contribution</b>
Crane Unit 1 & 2	33.84	20.6%
Brandon Shores Merged Stack	123.52	73.8%
Wagner Unit 1	0.0	0.0%
Wagner Unit 3	0.0	0.0%
Wagner Unit 4	0.0	0.0%
Wheelabrator	0.13	0.1%
Ambient Background	9.21	5.6%
Peak Impact	166.70	100%

**Figure 6-15: Source Contribution Charts for Peak Impact near Crane for Case 2 CEV and Controlling RRE Simulation Run 97**





**Figure 6-16: Source Contribution Charts for Peak Impact near Fort Smallwood for Case 2 CEV and Controlling RRE Simulation Run 97**



**Table 6-18 Comparison of Peak Model Receptor Design Concentrations from Case 2 CEV and Controlling RRE Simulation Run 97**

Run	Easting	Northing	5-Year Avg.	2012 Max	2013 Max	2014 Max	2015 Max	2016 Max
<b>CEV-2</b>	379853.75	4354392.50	194.71	224.10	187.27	236.30	162.26	163.62
<b>RRE 97</b>	379853.75	4354392.50	196.10	223.73	187.10	235.76	170.53	163.38

### 6.6.3 Maximum 30-day Rolling Averages for Brandon Shores and Wagner Unit 3

After determining that all of the RRE runs demonstrate attainment of the SO<sub>2</sub> NAAQS, Talen calculated a 30-day average emission rate across the full range of emission rates input into the RRE runs that could serve as a protective limit. As discussed in Section 6.4.1.1, high emission events could potentially occur during the winter or summer months, corresponding with high load demand for Brandon Shores. The 30-day rolling average permit limit would therefore need to account for this seasonality by taking the sum of the total high emissions and the total of “non-event” (i.e., normal) emissions (values at or below the CEV) for a summer or winter month input into the RRE modeling and dividing that by the number of hours in a 30-day period (720 hours). Brandon Shores is simulated in the RRE modeling to have 55 hours of high emission events in the month of January, leaving 665 hours for non-event emissions in a 30-day period. The sum of the high emissions for 55 hours and the sum of non-event emissions of the remaining hours divided by 720 hours results in a maximum 30-day average of 1,927.4 lb/hr. This maximum value of 1,927.4 lb/hr would be the proposed 30-day rolling average permit limit for Brandon Shores.

The same maximum 30-day calculation can be applied to Wagner Unit 3. During two months of every year all three of the prescribed high emission events outlined in Table 6-9 would occur. This would total 88 hours of high emission events in either of these months, leaving 632 hours for non-event emission in a 30-day period. The sum of the high emission for the 88 hours and the sum of the non-event emissions of the remaining hours divided by 720 hours results in a maximum 30-day average of 1,933.55 lb/hr.

The sum of the maximum 30-day average emission limits for Brandon Shores and Wagner Unit 3 from Case 1 (3,860 lb/hr) would conservatively be set as the 30-day rolling average limit for Brandon Shores-only operations (Case 2).

## 7. Summary of Critical and Longer-Term Emission Rates

Table 7-1 provides a summary of the 1-hour and the equivalent longer-term average emission rates, as appropriate, for each station modeled that will ensure compliance with the 1-hour SO<sub>2</sub> NAAQS in the Anne Arundel and Baltimore County, MD non-attainment area. These federally enforceable proposed limits for Crane, Brandon Shores and Wagner units listed in Table 7-1 have been established based on the extensive modeling discussed in Sections 5 and 6 of this report. The proposed future SO<sub>2</sub> emission limits are significantly lower than the current SO<sub>2</sub> emission limits for each plant. For Crane, the proposed 1-hour SO<sub>2</sub> emission limit is a 78% emission reduction from the current limit. The proposed not to exceed 1-hour limits for Wagner Unit 1 and 4 are both near 70% of their current SO<sub>2</sub> emission limits and Wagner Unit 3's proposed not to exceed 1-hour limit is 28% lower than the current limit.

The lower SO<sub>2</sub> emission limits at Wagner are due in large part to the future operation changes that will be in place by January 2021. These include:

- Unit 1 will operate no more than 5% of the year (438 hours) on low-sulfur (0.3%) No. 6 oil (otherwise it will fire on natural gas),
- Unit 3 will burn lower-sulfur coal, such as New Source Performance Standard (NSPS) compliant coal (1.1 lb SO<sub>2</sub>/MMBtu);
- Implementation of a specialized sorbent is expected to improve SO<sub>2</sub> control efficiency of the dry sorbent injection system for Wagner Unit 3, achieving a 30% SO<sub>2</sub> reduction, and
- Unit 4 will operate no more than 5% of the year (438 hours) on low-sulfur (0.3%) No. 6 oil.

For Brandon Shores Units 1 and 2 and Wagner Unit 3, the emission distribution used in the RRE modeling for Case 1 (and Case 2 for Brandon Shores) conservatively assumed these units are continuously operating for every hour of the year at various emission rates and the 30-day average emission limits are calculated from that emissions distribution (See Section 6.6.3). To be clear, the maximum 30-day rolling average limits would apply to emissions averaged over all 720 hours in any rolling 30-day period, which can include hours with zero emissions. The limits on the fraction of time that the emissions can exceed the CEV provides sufficient constraints to assure NAAQS compliance.

Note that in Table 7-1 Wagner 3 has a 30-day average limit, but Brandon Shores does not. Wagner 3's limit is based on its maximum emissions modeled in Case 1 when Brandon Shores was also operating. Brandon Shores is effectively limited by the combined coal unit limit (3,860 lb/hr) 1) because it is equal to the Brandon Shores 30-day average emissions from Case 2 (only Brandon Shores operating), and 2) because it is equal to the sum of the Brandon Shores and Wagner Unit 3 emissions that passed in Case 1. In other words, within 30-day average periods, if Wagner 3 is not operating, Brandon Shores emissions are limited to 3,860 lbs/hr, and if Wagner 3 is operating, Brandon Shores emissions are limited to the difference between 3,860 lbs/hr and Wagner 3's emissions. Therefore, whether Wagner Unit 3 is operating or not, Brandon Shores is limited by the combined coal unit 30-day average emission limit of 3,860 lb/hr, as summarized in Table 7-1.

Not to exceed 1-hour average emission limits for Brandon Shores and Wagner sources are based on the highest 1-hour average emission limit included in the RRE (EPA's Appendix B approach) modeling for Cases 1 and 2. For Brandon Shores, the highest 1-hour average value modeled was 9,980 lb/hr and for Wagner 3 it was 3,289 lb/hr. Wagner Units 1 and 4 were modeled as either "on" at full-load or "off" with highest 1-hour SO<sub>2</sub> emission rates of 480 lb/hr and 1,350 lb/hr, respectively.

With the exception of the Brandon Shores-only scenario, the percentage of hours of high emissions that can exceed the established CEV values (i.e., "high emission events") is based on the use of a 5% "rule-of-thumb" as approved in an Illinois SO<sub>2</sub> emission limitation rule<sup>19</sup>. Brandon Shores and Wagner Units 1

<sup>19</sup> Available at [http://ilrules.elaws.us/iac/t35\\_pt214\\_sec.214.301](http://ilrules.elaws.us/iac/t35_pt214_sec.214.301); see Section 214.603(e) for Powerton.

and 4 were modeled with high emission events occurring approximately 5% of the hours, while Wagner Unit 3 was lower at around 4%. The CEV for the Brandon Shores-only scenario was high enough that only one, very unlikely, high emission event lasting only 3 hours was modeled in the RRE runs; therefore, the limit of time over the CEV was set at 3 hours.

The extensive modeling presented in this report and in the modeling archive, consisting of 200 5-year periods, demonstrates attainment with the NAAQS in the Anne Arundel and Baltimore Counties, MD non-attainment area.

**Table 7-1: Proposed SO<sub>2</sub> Enforceable Limits**

<b>Source</b>	<b>Current SO<sub>2</sub> Emission Limit</b>	<b>Proposed Additional SO<sub>2</sub> Emission Limits (2021 and Beyond)</b>
C.P. Crane	3.5 lb/MMBtu 13,055 lb/hr (1-hr Avg.)	2,900 lb/hr (1-hr Avg.)
Brandon Shores Units 1 and 2 and Wagner Unit 3 (Combined coal units)	N/A	3,860 lb/hr (30-day Average)
Brandon Shores Units 1 and 2 (combined) <sup>(1)</sup>	5,392 tons/year (Unit 1) 5,627 tons/year (Unit 2) Not to Exceed 1.2 lb/MMBtu	Emissions Above 2,851 lb/hr (1-hr Avg.) allowed up to 435 hours annually when Wagner 3 is operating; Emissions Above 5,150 lb/hr (1-hr Avg.) allowed up to 3 hours annually when Wagner 3 is not operating; Not to Exceed 9,980 lbs/hr (3-hr period per year)
Wagner Unit 1	1,540 lb/hr (1-hr Avg.)	Operation up to 438 hours annually (No. 6 Fuel Oil); Not to Exceed 480 lb/hr 1-hr Avg.
Wagner Unit 3	4,550 lb/hr (1-hr Avg.)	1,904 lb/hr (30-day Avg.); Emissions Above 2,299 lb/hr (1-hr Avg.) allowed up to 336 hours annually; Not to Exceed 3,289 lb/hr (1-hr Avg.)
Wagner Unit 4	4,550 lb/hr (1-hr Avg.)	Operation up to 438 hours annually (No. 6 Fuel Oil); Not to Exceed 1,350 lb/hr 1-hr Avg.

(1) Separate 30-day average not required as it is included in the combined coal unit 30-day limit.

**Anne Arundel County and Baltimore County SO<sub>2</sub> State Implementation Plan (SIP)  
Modeling Report Appendices**

**Appendix A:**

EPA Technical Support Document (TSD) for Maryland Area Designations for the 2010 SO<sub>2</sub> Primary National Air Quality Standard (pages 1-27)

**Appendix B:**

Time Series Plots of 100 Years of Simulated Emissions for Brandon Shores – Case 1 (pages 28-39)

**Appendix C:**

Time Series Plots of 100 Years of Simulated Emissions for Brandon Shores – Case 2 (pages 40-50)

**Appendix D:**

Time Series Plots of 100 Years of Simulated Emissions for Wagner Unit 1 (pages 51-61)

**Appendix E:**

Time Series Plots of 100 Years of Simulated Emissions for Wagner Unit 4 (pages 62-72)

**Appendix F:**

Time Series Plots of 100 Years of Simulated Emissions for Wagner Unit 3 (pages 73-83)

**Appendix G:**

Table of Highest 5-year Average 99<sup>th</sup> Percentile Daily Maximum SO<sub>2</sub> Concentrations for Case 1 (page 84)

**Appendix H:**

Table of Highest 5-year Average 99<sup>th</sup> Percentile Daily Maximum SO<sub>2</sub> Concentrations for Case 2 (page 85)

# Appendix A

## Technical Support Document for Final Designation

### Maryland Area Designations for the 2010 SO<sub>2</sub> Primary National Ambient Air Quality Standard

#### Summary

Pursuant to section 107(d) of the Clean Air Act (CAA), the U.S. Environmental Protection Agency (EPA, or the Agency) must designate areas as either “unclassifiable,” “attainment,” or “nonattainment” for the 2010 1-hour sulfur dioxide (SO<sub>2</sub>) primary national ambient air quality standard (NAAQS). Section 107(d) of the CAA defines a nonattainment area as one that does not meet the NAAQS or that contributes to a violation in a nearby area, an attainment area as any area other than a nonattainment area that meets the NAAQS, and an unclassifiable area as any area that cannot be classified on the basis of available information as meeting or not meeting the NAAQS.

July 2, 2016 is the deadline for the EPA to designate certain areas established by the U.S. District Court for the Northern District of California. This deadline is the first of three deadlines established by the court for the EPA to complete area designations for the 2010 SO<sub>2</sub> NAAQS. This deadline applies to a certain area in Maryland because one emission source meets the conditions of the court’s order.

Maryland submitted a designation recommendation on April 19, 2011, and an updated recommendation on November 20, 2015. On April 14, 2016, Maryland submitted an alternative model request for use of a non-regulatory default/beta Adjust U\* option in their modeling analyses for the area surrounding Wagner. On April 19, 2016, Maryland submitted additional modeling analyses and information. Table 1 below lists Maryland’s recommendations and identifies the counties in Maryland that the EPA is designating in order to meet the July 2, 2016, court-ordered deadline. These final designations are based on an assessment and characterization of air quality through ambient air quality data, air dispersion modeling, other evidence and supporting information, or a combination of the above.

**Table 1. Maryland’s Recommended and EPA’s Final Designations**

Area	State’s Recommended Area Definition	State’s Recommended Designation	EPA’s Final Area Definition	EPA’s Final Designation
<u>Anne Arundel County and Baltimore County</u> <sup>1</sup>	Area boundary not provided	Attainment	Portions of Anne Arundel and Baltimore Counties that are within 26.8 kilometers of Herbert A. Wagner’s Unit 3 stack, which is located at	Nonattainment

<sup>1</sup> The EPA is finalizing our intended designation of nonattainment. However, the EPA is modifying the intended area definition from portions of Anne Arundel and Baltimore Counties that are with 35.5 kilometers of Wagner’s

			39.17765N latitude, 76.52752W longitude (Anne Arundel County and Baltimore County, MD)	
Baltimore City <sup>2</sup>	Baltimore City	Unclassifiable	Same as State's Recommendation (Baltimore City, MD)	Unclassifiable/ Attainment

### Background

On June 3, 2010, the EPA revised the primary (health based) SO<sub>2</sub> NAAQS by establishing a new 1-hour standard at a level of 75 parts per billion (ppb) which is met at an ambient air quality monitoring site when the 3-year average of the 99th percentile of 1-hour daily maximum concentrations does not exceed 75 ppb. This NAAQS was published in the *Federal Register* on June 22, 2010 (75 FR 35520), and is codified at 40 CFR 50.17. The EPA determined this is the level necessary to protect public health with an adequate margin of safety, especially for children, the elderly, and those with asthma. These groups are particularly susceptible to the health effects associated with breathing SO<sub>2</sub>. The two prior primary standards of 140 ppb evaluated over 24 hours, and 30 ppb evaluated over an entire year, codified at 40 CFR 50.4, remain applicable.<sup>3</sup> However, the EPA is not currently designating areas on the basis of either of these two primary standards. Similarly, the secondary standard for SO<sub>2</sub>, set at 500 ppb evaluated over 3 hours, codified at 40 CFR 50.5, has not been revised, and the EPA is also not currently designating areas on the basis of the secondary standard.

### General Approach and Schedule

Section 107(d) of the CAA requires that not later than 1 year after promulgation of a new or revised NAAQS, state governors must submit their recommendations for designations and boundaries to the EPA. Section 107(d) also requires the EPA to provide notification to states no less than 120 days prior to promulgating an initial area designation that is a modification of a state's recommendation. If a state does not submit designation recommendations, the EPA may promulgate the designations that it deems appropriate without prior notification to the state, although it is our intention to provide such notification when possible. If a state or tribe disagrees with the EPA's intended designations, it is given an opportunity within the 120-day period to demonstrate why any proposed modification is inappropriate. The EPA is required to complete designations within 2 years after promulgation of a new or revised NAAQS, unless the EPA

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Unit 3 stack to portions of Anne Arundel and Baltimore Counties that are within 26.8 kilometers within Wagner's Unit 3 stack.

<sup>2</sup> The EPA is finalizing our intended area designation of unclassifiable/attainment and the boundary definition consisting of the city's jurisdictional boundary for Baltimore City.

<sup>3</sup> 40 CFR 50.4(e) provides that the two prior primary NAAQS will no longer apply to an area 1 year after its designation under the 2010 NAAQS, except that for areas designated nonattainment under the prior NAAQS as of August 22, 2010, and areas not meeting the requirements of a SIP Call under the prior NAAQS, the prior NAAQS will apply until that area submits and the EPA approves a SIP providing for attainment of the 2010 NAAQS. There are no areas in Maryland subject to this clause.



determines that sufficient information is not available, in which case the deadline is extended to 3 years. The 3-year deadline for the revised SO<sub>2</sub> NAAQS was June 2, 2013.

On August 5, 2013, the EPA published a final rule establishing air quality designations for 29 areas in the United States for the 2010 SO<sub>2</sub> NAAQS, based on recorded air quality monitoring data from 2009 - 2011 showing violations of the NAAQS (78 FR 47191). In that rulemaking, the EPA committed to address, in separate future actions, the designations for all other areas for which the Agency was not yet prepared to issue designations.

Following the initial August 5, 2013 designations, three lawsuits were filed against the EPA in different U.S. District Courts, alleging the Agency had failed to perform a nondiscretionary duty under the CAA by not designating all portions of the country by the June 2, 2013 deadline. In an effort intended to resolve the litigation in one of those cases, plaintiffs Sierra Club and the Natural Resources Defense Council and the EPA filed a proposed consent decree with the U.S. District Court for the Northern District of California. On March 2, 2015, the court entered the consent decree and issued an enforceable order for the EPA to complete the area designations according to the court-ordered schedule.

According to the court-ordered schedule, the EPA must complete the remaining designations by three specific deadlines. By no later than July 2, 2016 (16 months from the court's order), the EPA must designate two groups of areas: (1) areas that have newly monitored violations of the 2010 SO<sub>2</sub> NAAQS, and (2) areas that contain any stationary sources that had not been announced as of March 2, 2015, for retirement and that, according to the EPA's Air Markets Database, emitted in 2012 either (i) more than 16,000 tons of SO<sub>2</sub>, or (ii) more than 2,600 tons of SO<sub>2</sub> with an annual average emission rate of at least 0.45 pounds of SO<sub>2</sub> per one million British thermal units (lbs SO<sub>2</sub>/MmBTU). Specifically, a stationary source with a coal-fired unit that, as of January 1, 2010, had a capacity of over 5 megawatts and otherwise meets the emissions criteria, is excluded from the July 2, 2016, deadline if it had announced through a company public announcement, public utilities commission filing, consent decree, public legal settlement, final state or federal permit filing, or other similar means of communication, by March 2, 2015, that it will cease burning coal at that unit.

The last two deadlines for completing remaining designations are December 31, 2017, and December 31, 2020. The EPA has separately promulgated requirements for state and other air agencies to provide additional monitoring or modeling information on a timetable consistent with these designation deadlines. We expect this information to become available in time to help inform these subsequent designations. These requirements were promulgated on August 21, 2015 (80 FR 51052), in a rule known as the SO<sub>2</sub> Data Requirements Rule (DRR).

Updated designations guidance was issued by the EPA through a March 20, 2015, memorandum from Stephen D. Page, Director, U.S. EPA, Office of Air Quality Planning and Standards, to Air Division Directors, U.S. EPA Regions 1-10. This memorandum supersedes earlier designation guidance for the 2010 SO<sub>2</sub> NAAQS, issued on March 24, 2011, and it identifies factors that the EPA intends to evaluate in determining whether areas are in violation of the 2010 SO<sub>2</sub> NAAQS. The guidance also contains the factors the EPA intends to evaluate in determining the boundaries for all remaining areas in the country, consistent with the court's order and schedule. These

factors include: 1) Air quality characterization via ambient monitoring or dispersion modeling results; 2) Emissions-related data; 3) Meteorology; 4) Geography and topography; and 5) Jurisdictional boundaries. This guidance was supplemented by two non-binding technical assistance documents intended to assist states and other interested parties in their efforts to characterize air quality through air dispersion modeling or ambient air quality monitoring for sources that emit SO<sub>2</sub>. Notably, the EPA's documents titled, "SO<sub>2</sub> NAAQS Designations Modeling Technical Assistance Document" (Modeling TAD) and "SO<sub>2</sub> NAAQS Designations Source-Oriented Monitoring Technical Assistance Document" (Monitoring TAD), were made available to states and other interested parties. Both of these TADs were most recently updated in February 2016.

Based on complete, quality assured and certified ambient air quality data collected between 2013 and 2015, no violations of the 2010 SO<sub>2</sub> NAAQS have been recorded at ambient air quality monitors in any undesignated part of Maryland. However, there one source in the state meeting the emissions criteria of the consent decree for which the EPA must complete designations by July 2, 2016. In this final technical support document (TSD), the EPA discusses its review and technical analysis of Maryland's April 19, 2016 submission for the area that we must designate. The EPA also discusses any final modifications from the state's recommendation based on all available data before us.

The following are definitions of important terms used in this document:

- 1) 2010 SO<sub>2</sub> NAAQS – the primary NAAQS for SO<sub>2</sub> promulgated in 2010. This NAAQS is 75 ppb, based on the 3-year average of the 99th percentile of the annual distribution of daily maximum 1-hour average concentrations. See 40 CFR 50.17.
- 2) Attaining monitor – an ambient air monitor meeting all methods, quality assurance, and siting criteria and requirements whose valid design value is less than or equal to 75 ppb, based on data analysis conducted in accordance with Appendix T of 40 CFR part 50.
- 3) Design Value – a statistic computed according to the data handling procedures of the NAAQS (in 40 CFR part 50 Appendix T) that, by comparison to the level of the NAAQS, indicates whether the area is violating the NAAQS.
- 4) Designated nonattainment area – an area which the EPA has determined has violated the 2010 SO<sub>2</sub> NAAQS or contributed to a violation in a nearby area. A nonattainment designation reflects considerations of the state's recommendations and all of the information discussed in this document. The EPA's decision is based on all available information including the most recent 3 years of air quality monitoring data, available modeling analyses, and any other relevant information.
- 5) Designated unclassifiable area – an area for which the EPA cannot determine based on all available information whether or not it meets the 2010 SO<sub>2</sub> NAAQS.
- 6) Designated unclassifiable/attainment area – an area which the EPA has determined to have sufficient evidence to find either is attaining or is likely to be attaining the NAAQS. The EPA's decision is based on all available information including the most recent 3 years of air quality monitoring data, available modeling analyses, and any other relevant information.
- 7) Modeled violation – a violation based on air dispersion modeling.

- 8) Recommended attainment area – an area a state or tribe has recommended that the EPA designate as attainment.
- 9) Recommended nonattainment area – an area a state or tribe has recommended that the EPA designate as nonattainment.
- 10) Recommended unclassifiable area – an area a state or tribe has recommended that the EPA designate as unclassifiable.
- 11) Recommended unclassifiable/attainment area – an area a state or tribe has recommended that the EPA designate as unclassifiable/attainment.
- 12) Violating monitor – an ambient air monitor meeting all methods, quality assurance, and siting criteria and requirements whose valid design value exceeds 75 ppb, based on data analysis conducted in accordance with Appendix T of 40 CFR part 50.

## **Technical Analysis for the Anne Arundel County and Baltimore County, Maryland Nonattainment Area**

### **Introduction**

The Anne Arundel County and Baltimore County, Maryland, area contains a stationary source that, according to the EPA's Air Markets Database, emitted in 2012 either more than 16,000 tons of SO<sub>2</sub> or more than 2,600 tons of SO<sub>2</sub> and had an annual average emission rate of at least 0.45 pounds of SO<sub>2</sub> per one million British thermal units (lbs SO<sub>2</sub>/mmBTU). Specifically, in 2012, the Herbert A. Wagner Generating Station (Wagner, or the Facility), emitted 7,514 tons of SO<sub>2</sub> and had an emissions rate of 1.105 lbs SO<sub>2</sub>/mmBTU. As of March 2, 2015, this stationary source had not met the criteria for being "announced for retirement." Pursuant to the March 2, 2015, court-ordered schedule, the EPA must designate the area surrounding this facility by July 2, 2016.

In its April 19, 2011, submission to the EPA for designations for the 2010 SO<sub>2</sub> NAAQS, Maryland recommended that an area that includes Wagner, specifically the entirety of Anne Arundel County, be designated as unclassifiable. The 2011 submission, however, did not include any supporting analyses. Subsequently, in its November 20, 2015, updated designation recommendation submission to the EPA, Maryland recommended that the area surrounding Wagner be designated as attainment. Maryland, however, did not recommend any particular boundary for the area in its November 20, 2015, submission. Maryland also stated that no monitors in Maryland violated the 1-hour SO<sub>2</sub> NAAQS, and the EPA has confirmed this. On January 15, 2016, Maryland submitted a supplement to its 2015 recommendation which included a modeling analysis for the area around Wagner. Additionally, this supplement included State comments on the air dispersion modeling dated January 4, 2016, submitted to the EPA by Sierra Club, asserting that violations of the NAAQS are present in the area around Wagner. After review of the Sierra Club modeling, the EPA agreed with the Sierra Club modeling and proposed to designate portions of Anne Arundel and Baltimore Counties as nonattainment for the SO<sub>2</sub> standard. Additionally, the EPA proposed to designate Baltimore City as unclassifiable/attainment based on the Sierra Club modeling.

On February 16, 2016, the EPA notified Maryland that we intended to designate the Anne Arundel County and Baltimore County, Maryland area as nonattainment, based on our view that the area was not meeting the NAAQS. Additionally, we informed Maryland that our intended boundary for the nonattainment area consisted of portions of Anne Arundel and Baltimore Counties that are within 35.5 kilometers of Herbert A. Wagner's Unit 3 stack, which is located at 39.17765N latitude, 76.52752W longitude. Our intended designation and associated boundaries were based on air dispersion modeling submitted by Sierra Club that was used in lieu of actual monitored data in order to designate the area. It provided evidence that 2010 SO<sub>2</sub> NAAQS violations are occurring within Baltimore County and Anne Arundel County. Furthermore, our intended designation and associated boundaries were also based on the EPA's analysis of emissions data, the lack of federally enforceable SO<sub>2</sub> emission controls at Wagner, and general wind patterns and topography. The EPA noted that Maryland's modeling analysis was not conducted in accordance with the EPA's Modeling TAD or Appendix W, and did not support a finding that the area was meeting the NAAQS and an attainment designation. Detailed rationale, analyses, and other information supporting our intended designation for this area can be found in the TSD for our intended designation in Maryland, and that document along with all others related to this rulemaking can be found in Docket ID EPA-HQ-OAR-2014-0464.

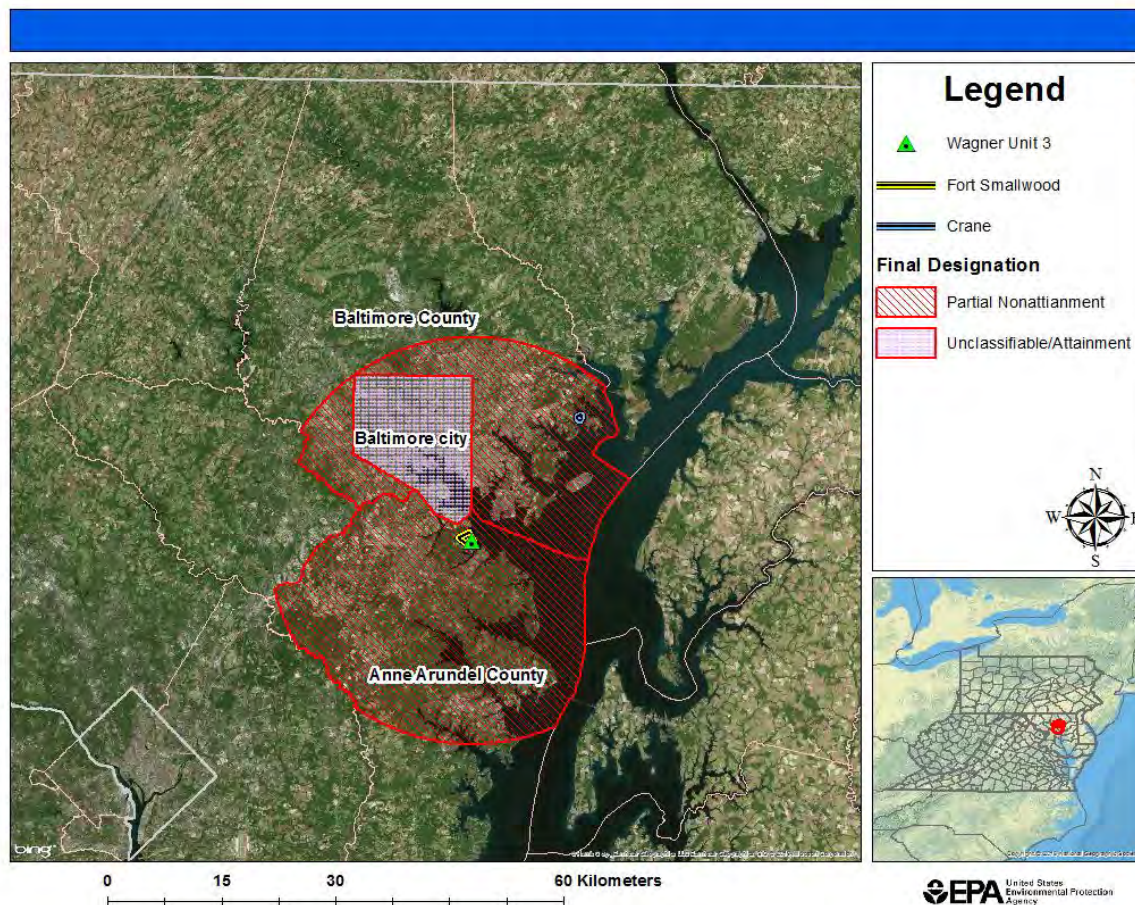
#### Assessment of New Information

In our February 16, 2016, notification to Maryland regarding our intended nonattainment designation for the Anne Arundel County and Baltimore County, Maryland, area, the EPA requested that any additional information that the Agency should consider prior to finalizing the designation should be submitted by April 19, 2016. On March 1, 2016, the EPA also published a notice of availability and public comment period in the *Federal Register*, inviting the public to review and provide input on our intended designations by March 31, 2016 (81 FR 10563).

The EPA is explicitly incorporating and relying upon the analyses and information presented in the TSD for our intended designation for the purposes of our final designation for this area, except to the extent that any new information submitted to the EPA or conclusions presented in this TSD for our final designation and our response to comments document (RTC), available in the docket, supersede those found in the preliminary technical support document.

As further detailed below, after carefully considering all available data and information, the EPA is designating the Anne Arundel County and Baltimore County, Maryland, area as nonattainment for the 2010 SO<sub>2</sub> NAAQS, but we are designating a smaller nonattainment area than we had identified in our February 16, 2016, notification. The boundaries for this nonattainment area consist of portions of Anne Arundel and Baltimore Counties that are within 26.8 kilometers of Herbert A. Wagner's Unit 3 stack, which is located at 39.17765N latitude, 76.52752W longitude, and are shown in the figure below. Also included in the figure are nearby emitters of SO<sub>2</sub>. Additionally, as shown in the figure below and further detailed later in this document, the EPA is designating Baltimore City as unclassifiable/attainment.

**Figure 1. EPA's Final Anne Arundel County and Baltimore County, Maryland Nonattainment Area**



The EPA received substantive comments regarding our intended nonattainment designation for the Anne Arundel County and Baltimore County, Maryland area from citizens, citizen groups, Sierra Club, industry, and Maryland. Our responses to those comments are provided in the response to comments document (RTC), available in the docket.

Also, additional air dispersion modeling was submitted to the EPA during the state and public comment period in order to characterize air quality in the Anne Arundel County and Baltimore County, Maryland, area. Notably, Sierra Club provided additional air dispersion modeling information during the comment period asserting that the EPA should finalize the proposed nonattainment designation for the area surrounding Wagner. Additionally, Maryland submitted additional air dispersion modeling asserting that the EPA should designate the area surrounding Wagner as attainment, as a first option, or unclassifiable, as a second option, in the face of conflicting modeling analyses. Maryland also stated that if the EPA disagrees with Maryland's recommended designation and designates the area as nonattainment, the nonattainment area should be much smaller with a boundary description comprised of roads and a land/water

interface. This information was submitted by Maryland to support a modification to both our proposed designation and our proposed designation boundary for the area. The EPA disagrees with Maryland's recommendations of attainment and unclassifiable, as modeling analyses submitted by both Sierra Club and Maryland, that were conducted in accordance with the TAD and Appendix W, show violations in the area surrounding Wagner. Based on new information received during the comment period, the EPA agrees that the nonattainment area should be smaller; however, based on analyses of the 5 factors and a modeled contribution analysis, the EPA disagrees that the area should be comprised of the roads and land/water interface that Maryland suggested. Similarly to what was proposed, the EPA is finalizing a nonattainment area using a radius drawn from Wagner's unit 3 stack. The nonattainment area, however, is being reduced to a shorter radius drawn from Wagner's unit 3 stack, but is still inclusive of all modeled violations close in proximity to Wagner as well as sources the EPA has determined to be contributing to these modeled violations. The discussion and analysis of this new information that follow reference the Modeling TAD, Monitoring TAD, and the factors for evaluation contained in EPA's March 20, 2015, guidance, as appropriate and applicable.

## Detailed Assessment of Sierra Club's and the State of Maryland's New Modeling

### *Summary of Recent Air-Dispersion Model Submissions*

The EPA received multiple modeling analyses from Sierra Club and the State of Maryland. Sierra Club submitted four (4) AERMOD simulations for all coal-fired units at Brandon Shores, C.P Crane and Wagner, six (6) units overall. The State of Maryland submitted five (5) AERMOD simulations for the same units Sierra Club modeled but added two (2) oil units at Wagner and the Wheelabrator Baltimore Incinerator for a total of nine (9) units. Table 2 lists the modeling analyses that were considered in our final designation decision. Our final designations are based on modeling submitted by the State of Maryland (BETA Adjust U\* modeling showing nonattainment submitted by Maryland and referred to as the Appendix D Modeling Analysis), though we determined a smaller boundary was appropriate than the State recommended with this modeling. The EPA finds that this modeling analysis is the most accurate as it best follows the modeling TAD and March 20, 2015 guidance, and in our technical judgement, appears most representative of actual air quality in the area surrounding Wagner.

**Table 2. Summary of Model Analyses Considered for Final Designation**

Submittal Package	Reference Document	Source Description	Mode	Period Modeled
Sierra Club	Appendix B Exhibit 3	Hourly Emissions/Fixed Stack Rates	Regulatory Default	2012-14
Sierra Club	Appendix B Exhibit 3	Hourly Emissions/Variable Stack Rates	Regulatory Default	2012-14
Sierra Club	Appendix B Exhibit 3	Hourly Emissions/Fixed Stack Rates	Regulatory Default	2013-15
Sierra Club	Appendix B Exhibit 3	Hourly Emissions/Variable Stack Rates	Regulatory Default	2013-15
State of Maryland	Appendix A	Hourly Emissions/Variable Stack Rates	Non-Default <sup>1</sup>	1 Apr 2015 - 31 Mar 2016
State of Maryland	Appendix A	Hourly Emissions/Variable Stack Rates	Non-Default <sup>2</sup>	1 Apr 2015 - 31 Mar 2016
State of Maryland	Appendix C	Hourly Emissions/Variable Stack Rates	Regulatory Default	2013-15
State of Maryland	Appendix C	Hourly Emissions/Variable Stack Rates	Non-Default <sup>3</sup>	2013-15
State of Maryland	Appendix D	Hourly Emissions/Variable Stack Rates	Non-Default <sup>3</sup>	2013-15

**Regulatory Default, AERMOD version 15181 regulatory default mode**

<sup>1</sup> AERMOIST, nondefault plume enhancement technique

<sup>2</sup> AERMOIST, nondefault plume enhancement technique; Adjust U\* and LOWWIND 3 AERMOD BETA Options



<sup>3</sup> Adjust U\* AERMOD BETA Option. Approval sought and granted through June 20, 2016 Concurrence with Model Clearinghouse under Section 3.2 of Appendix W

### *Sierra Club Modeling Summary*

Sierra Club submitted modeling as part of comments submitted during the 30-day public comment period that closed on March 31, 2016. This modeling<sup>4</sup> was essentially an update of Sierra Club's previous submittal and included more recent hourly emissions data (2013-15), hourly varying stack flow rates, and updated background concentrations.

A total of four (4) AERMOD simulations were presented. Sierra Club modeled six (6) sources at allowable and actual hourly emission rates. Only the actual hourly emission rate runs were reviewed by the EPA since this is the recommended method outlined in the EPA's Modeling TAD. The modeled hourly emission rates were nearly identical to those pulled from the EPA's Clean Air Markets website.<sup>5</sup> Two (2) three-year periods were modeled: 2012-14 and 2013-15. Stack parameters for each three-year period were either set to fixed temperatures and flow rates for each modeled unit or used the same fixed temperature along with hourly varying flow rates derived from 2012-14 CEM data made available by the EPA. Background concentrations increased slightly (26.2 µg/m<sup>3</sup> versus 28.8 µg/m<sup>3</sup>) reflecting a slight increase in the background monitor's most recent 3-year design value. The model receptor grid was identical to Sierra Club's previous submittal and was comprised of a 50km by 50km domain centered on the Brandon Shores/Crane/Wagner power plants and included over 97,000 individual (1.5 m flagpole) receptors. Meteorological data from the Baltimore/Washington International (BWI) and Dulles airports was processed in AERMET with supplemental 5-minute and 2-minute surface wind data using EPA's AERMINUTE program. Surface characteristics were processed seasonally with continuous winter season snow cover using AERSURFACE.

Sierra Club's updated modeling continued to show modeled violations surrounding Wagner with additional areas of violating receptors in portions of Baltimore County west and north of the City of Baltimore. Comparisons of the "fixed" and "variable" stack rate runs show that AERMOD concentrations are sensitive to stack flow rates. In general, the runs using the "fixed" stack rates yielded higher concentrations than the runs with "variable" stack rates.

The EPA is not relying upon Sierra Club's most recent modeling for designation purposes. The simulations generally followed EPA's Modeling TAD but produced modeled violations in areas of Baltimore County greater than 20 km from Wagner that seem questionable in reflecting this area's actual air quality based on the EPA's technical knowledge and judgment. Modeling completed by the State of Maryland using the same default version of AERMOD as Sierra Club produced modeled violations even farther away from Wagner than those modeled in Sierra Club's. Maryland extended the modeling domain outward from Sierra Club's to ensure all modeled violations were captured. The State of Maryland examined these new areas of modeled violations and noted they occurred during the overnight hours under stable atmospheric conditions with low wind speeds. The EPA developed and included the BETA Adjust U\* option

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<sup>4</sup> Sierra Club modeling described in report entitled *C.P. Crane Generating Station Chase, Maryland Brandon Shores & H.A. Wagner Generating Stations Fort Smallwood Complex, Maryland Evaluation of Compliance with the 1-hour NAAQS for SO<sub>2</sub>* dated March 23, 2016, from Wingra Engineering, S.C. Madison, Wisconsin.

<sup>5</sup> <https://ampd.epa.gov/ampd/>

within AERMOD (starting with version 12345) to address concerns with simulating concentrations under these conditions. A more thorough discussion of this can be found in the next section discussing the State of Maryland's modeling submission (specifically Appendix C modeling).

Commenter (0332-AB-Sierra Club) stated that, while Sierra Club believes that their 2015 modeling fully supports a nonattainment designation, they attached a supplemental modeling report (Appendix B Exhibit 3) demonstrating that the results of the 2015 modeling report are robust to the modeling years selected, the use of emission data from the EPA's Emissions Modeling Clearinghouse and to the inclusion of variable hourly exit velocities. Commenter stated that, consistent with these conclusions and with the supplemental information described in their letter and attachments, they urged the EPA to finalize its proposed nonattainment designation for the areas around the Wagner coal-fired power plant.

### *State of Maryland Modeling Summary*

The State of Maryland submitted several sets of modeling analyses during their 60-day state response period, which ended April 19, 2016. Maryland's preferred recommendation for the Wagner area is attainment. Updated modeling was included in Appendix A, Appendix C, and Appendix D of their submittal. Each of these appendices will be briefly discussed in the following sections. The EPA believes that the modeling presented in Appendix D of Maryland's submittal best followed EPA's Modeling TAD and associated guidance and is the most likely to reflect actual air quality conditions in the Wagner area.

### *State of Maryland Appendix A Modeling Summary*

Modeling submitted as part of Maryland's Appendix A was presented to support its preferred designation of attainment for the Wagner area. The modeling analyses in Appendix A were developed by Wagner's consultant and were an attempt to simulate conditions for a low-sulfur coal switch that recently took place for Wagner Unit 2 in response to the EPA's Mercury Air Toxics Standards (MATS). Two sets of modeling were presented with both simulations resulting in model concentrations below the 1-hour SO<sub>2</sub> NAAQS.

Both model simulations in Appendix A included one year of meteorological data developed with surface and upper air soundings from BWI and Dulles Airport respectively. This period extended from April 1, 2015, through March 31, 2016, and covered the period in which the fuel switch for MATS occurred at Wagner's Unit 2 coal-fired boiler.<sup>6</sup> Meteorological data was processed with supplemental 2-minute wind information from BWI using AERMINUTE and included monthly varying surface characteristics with no seasonal snow cover. The modeling domains covered the same area used by Sierra Club with an extension at the edge of the northwest corner to ensure the peak concentrations were captured. There were a little over 10,000 individual model receptors in Maryland's receptor grid. Receptors were excluded from areas where monitors could not be

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<sup>6</sup> This unit is currently on PJM's Future Deactivation List. Its listed shutdown date is June 1, 2020. See: <http://www.pjm.com/planning/generation-deactivation/gd-summaries.aspx>.



sited, specifically over water bodies, as allowed in the EPA's Modeling TAD. Company-provided hourly CEM emission rates and stack parameters including both stack temperatures and stack flow rates were used. EPA finds that these actual rates are more accurate than information used in Sierra Club's "varying" stack rate simulations.

While both one-year simulations showed compliance with the 1-hour SO<sub>2</sub> NAAQS, the EPA finds that there were several deficiencies present that led us to conclude that these results do not support Maryland's preferred attainment designation for the Wagner Area. Appendix A model runs were split into a "default" AERMOD run and a non-default run. The EPA is providing the following comments to explain why these modeling runs are not appropriate for consideration in its final designation for the Wagner area.

**AERMOIST creates an aberration that precludes this analysis from being considered Regulatory Default:** AERMOIST is a plume enhancement technique that attempts to account for the impacts of moisture-laden plumes from Brandon Shore's Flue-Gas Desulfurization (FGD) units on final model plume rise. AERMOIST calculates latent heating in these moist plumes and then adjusts stack temperatures (upward). This is accomplished by feeding adjusted stack temperatures back into AERMOD through the hourly emission file. The EPA has thus far not determined the regulatory status of AERMOIST, so we currently cannot accept this component as part of the EPA's regulatory default AERMOD package.

Furthermore, an analysis of the output files shows that the Brandon Shore units were emitting during the hour which defined the simulation's 1-hr SO<sub>2</sub> design value (the 99<sup>th</sup> %). Based on the EPA's knowledge of AERMOIST and analysis that this simulation's design value was 99.93% of the NAAQS and the Brandon Shore units were emitting at that time, it's very likely that AERMOIST contributed to the simulation showing compliance with the NAAQS. In other words, without AERMOIST this simulation would have most likely exceeded the NAAQS.

**Use of only one year of met data is not necessarily reflective of the Wagner area's modeled design value.** The EPA recognizes Maryland's attempt to project what current operations at Wagner would be given the facility's recent switch to lower sulfur coal in Unit 2. The EPA notes, however, that this coal switch was not federally enforceable. In addition, using only one year of simulation time would not accurately reflect what the area's design value would be, which is the purpose of the modeling analysis. A more accurate representation would have included three years of met data as outlined in EPA's Modeling TAD. Furthermore, given the closeness to the standard of Maryland's "default" run and the impact of the currently unapproved use of AERMOIST, it is highly likely that if Maryland had run the most recent three years of meteorological and emissions that the model results would have exceeded the 1-hour SO<sub>2</sub> NAAQS.

**Maryland's non-default run included in Appendix A uses options that were not approved under Section 3.2.2 of Appendix W.** The non-default run presented in Appendix A showed model concentrations in the Wagner area that were below the NAAQS. This run, however, utilized several BETA options within AERMOD that would

need approval under Section 3.2.2 of Appendix W. These included the BETA Adjust U\* and Low Wind 3 options within AERMOD along with the previously mentioned AERMOIST component. No formal approval request was sought or given for these two BETA options, which is contrary to the EPA's December 10, 2015 Clearinghouse Memorandum,<sup>7</sup> meaning that it would not be appropriate for the EPA to rely upon the results from this run for the purpose of designating the area around the Wagner facility.

#### *State of Maryland Appendix C Modeling Summary*

Two (2) AERMOD simulations, showing nonattainment, were included as part of Appendix C. This included a default AERMOD run and a run using EPA's BETA Adjust U\* option. These runs were submitted as part of an official request to use an alternative model under Section 3.2.2 of Appendix W. This request was outlined in Maryland's April 14, 2016, letter to the EPA Region 3 Regional Administrator. After an internal technical review, a short summary was developed and a formal concurrence request was submitted to the EPA's Model Clearinghouse on May 13, 2016. The Model Clearinghouse granted approval of Maryland's request on June 20, 2016, and the approval memorandum is available in the docket under this rulemaking.

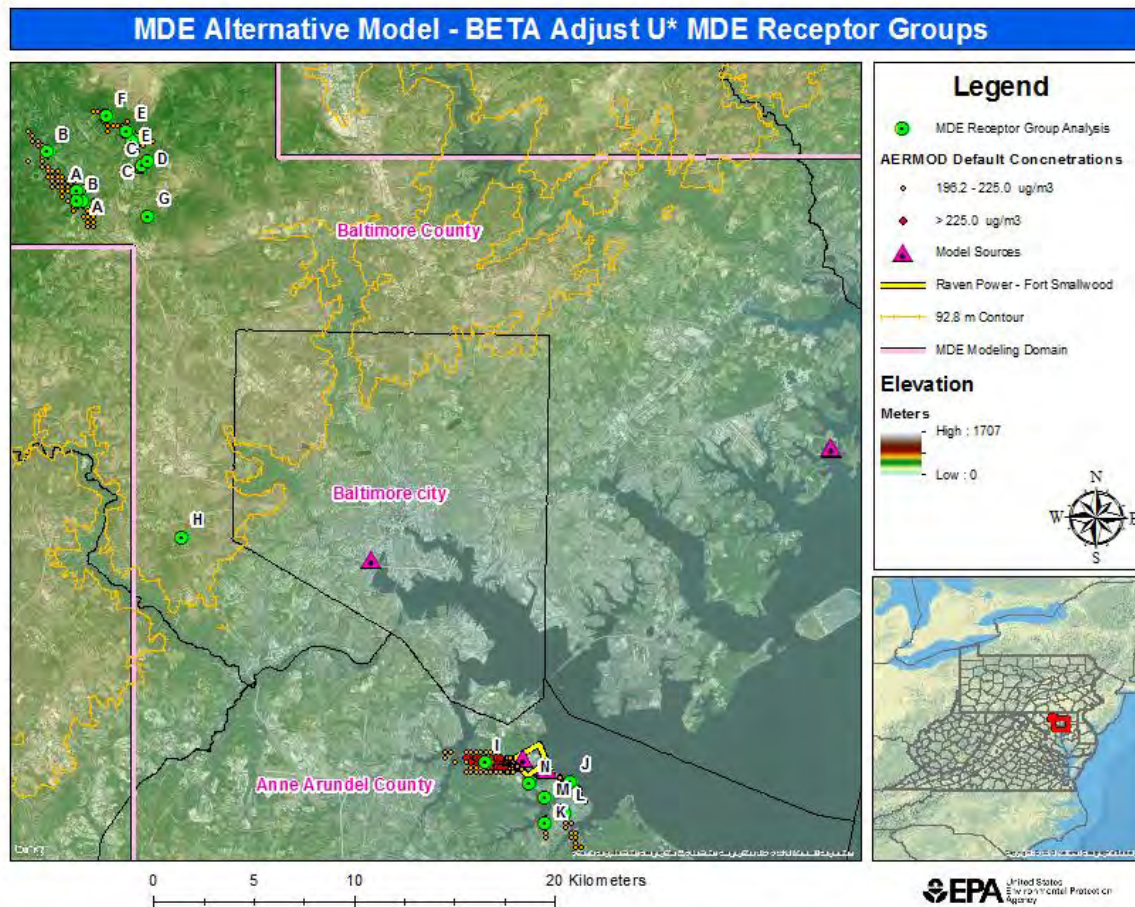
Maryland's default AERMOD run showed similar areas of modeled violations as Sierra Club's model simulations. Violations were clustered in the immediate area of the Wagner power plant as well as several areas in Baltimore County to the west and north of the City of Baltimore. Model violations extended out to almost 40 km from Wagner. Both AERMOD runs used three (3) years of surface and upper air soundings from BWI and Dulles airports for the 2013-2015 time period. Surface winds were supplemented with 2-minute surface wind data processed in AERMET using monthly varying surface characteristics including soil moisture with no seasonal snow cover via AERSURFACE. Hourly emissions, stack temperature, and flow rates were used for all units at Brandon Shores, C.P. Crane, and Wagner. Emission rates and stack parameters were held constant for the Wheelabrator Baltimore Incinerator.

Figure 2 shows the locations of the receptors in Maryland's default AERMOD run that exceeded the 1-hour SO<sub>2</sub> NAAQS in the extended Wagner area. This figure was included in the EPA's May 13, 2016 technical analysis that was sent the Model Clearinghouse for concurrence. Violating receptors can be generally broken into two (2) groups. Far away receptors (A-H) that occur in the elevated Piedmont terrain and close-in receptors (I-N) that reside on the Atlantic Coastal Plane. The 92.8m contour marks effective stack height for Wagner Unit 3.

#### **Figure 2. AERMOD Default run violating receptors from Maryland's Appendix C run**

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<sup>7</sup> [https://www3.epa.gov/ttn/scram/guidance/clarification/AERMOD\\_Beta\\_Options\\_Memo-20151210.pdf](https://www3.epa.gov/ttn/scram/guidance/clarification/AERMOD_Beta_Options_Memo-20151210.pdf)



Maryland examined the dates and times for several representative receptors (labeled A through N in Figure 2) from the group of violating receptors in its default AERMOD run. Receptors A through H had peak model concentrations occurring during the overnight hours under low wind speeds. Violating receptors near Wagner (receptors I through N) occurred during daytime hours with modestly higher wind speeds. Table 3 shows the dates and times for these representative violating receptors along with the hourly wind speed and  $U^*$  values from the simulation's AERMET surface file. There are two sets of columns: one for the default AERMET run and one using the BETA Adjust  $U^*$  run. The BETA  $U^*$  values for receptors A through H increased while values for I through M did not change (there was a slight increase for receptor N). As explained earlier, EPA's BETA Adjust  $U^*$  increases the  $U^*$  value only in instances of stable (including overnight), low-wind speed conditions.

The EPA received comments from Sierra Club objecting to the modeling provided by AECOM to Maryland because the EPA has not formally approved the use of the ADJ\_  $U^*$  and LOWWIND3 options as the regulatory default under Appendix W and because AECOM failed to support the preferability of these options for modeling the Baltimore-area coal plants, especially for determining whether the area is attaining the 1-hour  $SO_2$  NAAQS. Commenter provided discussion of this issue in their letter and attachments, including attached comments of

Camille Sears (Exhibit 4). Also see discussion of these options in section III.A.1 of this document.

**Table 3. Change in representative violating receptor U\* values using AERMET in default and BETA Adjust U\* modes**

Group	X	Y	Elevation (m)	Year	Julian Day	Hour	Default AERMET		BETA Adjust U*	
							Surface Friction Velocity (u*) (m/s)	Wind Speed	Surface Friction Velocity (u*) (m/s)	Wind Speed
A	344732.83	4366325.66	212.8	2014	247	20	0.081	2.25	0.15	2.25
A	344982.83	4365825.66	209.6	2014	247	20	0.081	2.25	0.15	2.25
B	343232.83	4368325.66	213.7	2014	247	20	0.081	2.25	0.15	2.25
B	343232.83	4368075.66	210.3	2014	55	22	0.026	0.79	0.095	0.79
C	347982.83	4367575.66	209.1	2014	19	5	0.036	1.08	0.095	1.08
C	347953.75	4367592.5	208.34	2014	19	5	0.036	1.08	0.095	1.08
D	348232.83	4367825.66	205.3	2014	60	22	0.031	0.86	0.097	0.86
E	347482.83	4368825.66	217.5	2014	19	5	0.036	1.08	0.095	1.08
E	347232.83	4369325.66	219.5	2014	273	19	0.05	1.37	0.095	1.37
F	346232.83	4370075.66	219.4	2014	19	5	0.036	1.08	0.095	1.08
G	348232.83	4365075.66	201.2	2015	128	20	0.069	1.94	0.126	1.94
H	349953.75	4349092.5	159.13	2014	273	20	0.047	1.3	0.094	1.3
I	365075	4337890	9.39	2014	358	13	0.118	1.55	0.118	1.55
J	369375	4336940	7.69	2014	363	13	0.179	1.99	0.179	1.99
K	368075	4334890	9.16	2014	61	16	0.165	2.04	0.165	2.04
I	369075	4335390	7.84	2014	64	10	0.094	0.69	0.094	0.69
M	368075	4336140	6.51	2015	33	13	0.118	1.3	0.118	1.3
N	367275	4336840	14.04	2014	274	6	0.148	3	0.187	3

Running the BETA Adjust U\* option in AERMOD does not eliminate all violating receptors in Maryland's Appendix C runs. Model violations in close proximity (within 6 km) to Wagner continue to occur even with the BETA Adjust U\* option. The BETA Adjust U\* option appears to reduce the concentration peaks occurring in Baltimore County west and north of the City (i.e., the 'far away' receptors) of Baltimore such that there are no longer violating receptors in that area. These default AERMOD run violations are probably occurring due to AERMOD potentially over predicting concentrations during times of low wind/stable conditions. The EPA finds that the specified use of BETA Adjust U\* in the latter Appendix C run provides a more realistic estimate of actual conditions in Anne Arundel County, Baltimore County, and the City of Baltimore surrounding the Wagner power plant.

#### *State of Maryland Appendix D Modeling Summary*

Modeling presented in Maryland's Appendix D is identical to the BETA Adjust U\* run included in Appendix C. Maryland presented the results of this run to provide a possible alternative to their preferred Attainment designation for the Wagner area. Model results showed violating receptors were confined to areas within 6 km of Wagner. If the Appendix A model simulations were not acceptable, as the EPA has now determined that they are not, Maryland proposed defining a nonattainment area based on several road segments that enclosed the violating receptors.

### *Model Selection and Modeling Components for Modeling Used in Designation Decision*

The EPA's Modeling TAD notes that for area designations under the 2010 SO<sub>2</sub> NAAQS, the AERMOD modeling system should be used, unless use of an alternative model can be justified. In some instances the recommended model may be a model other than AERMOD, such as the BLP model for buoyant line sources. The AERMOD modeling system contains the following components:

- AERMOD: the dispersion model
- AERMAP: the terrain processor for AERMOD
- AERMET: the meteorological data processor for AERMOD
- BPIPPRIME: the building input processor
- AERMINUTE: a pre-processor to AERMET incorporating 1-minute automated surface observation system (ASOS) wind data
- AERSURFACE: the surface characteristics processor for AERMET
- AERSCREEN: a screening version of AERMOD

After reviewing modeling multiple analyses sent by Sierra Club and the State of Maryland, the EPA finds that the BETA Adjust U\* AERMOD simulation included in Maryland's Appendix D most closely follows the Modeling TAD and the EPA's March 20, 2015, guidance and therefore more accurately represents true air quality in the Wagner area. As currently required, Maryland formally requested the use of the BETA Adjust U\* option in AERMOD under Section 3.2.2 of Appendix W. After a concurrent technical review by Region 3 and the Model Clearinghouse, the EPA has provided a formal approval to use the BETA Adjust U\* option within AERMOD. Concurrence was granted by the Model Clearinghouse on June 20, 2016 and it is available in the docket under this rulemaking.

Modeling used in Maryland's Appendix D was completed using a version of Lakes Environmental software that includes AERMOD's most recent version (15181). As noted previously, AERMOD was run using the non-default BETA Adjust U\* option. As noted in EPA's *Addendum Users Guide for the AERMOD Meteorological Preprocessor (AERMET)* ... "[T]he ADJ\_U\* "BETA" option is considered to be a non-Default option and is therefore subject to the alternative model provisions in Section 3.2 of Appendix W (40 CFR Part 51)."

### *Modeling Parameter: Rural or Urban Dispersion*

The EPA's recommended procedure for characterizing an area by prevalent land use is based on evaluating the dispersion environment within 3 km of the facility. According to the EPA's modeling guidelines contained in documents such as the Modeling TAD, rural dispersion coefficients are to be used in the dispersion modeling analysis if more than 50% of the area within a 3 km radius of the facility is classified as rural. Conversely, if more than 50% of the area is urban, urban dispersion coefficients should be used in the modeling analysis. When performing the modeling for the area of analysis, Maryland determined that it was most appropriate to run the model using rural dispersion coefficients. Upon review of land use

surrounding the Wagner power plant, the EPA determined that Maryland's use of rural dispersion coefficients was appropriate in this model run.

*Modeling Parameter: Area of Analysis (Receptor Grid)*

The EPA believes that a reasonable first step towards characterization of air quality in the area surrounding the Wagner power plant is to determine the extent of the area of analysis, i.e., receptor grid. Considerations presented in the Modeling TAD include but are not limited to: the location of the SO<sub>2</sub> emission sources or facilities considered for modeling; the extent of significant concentration gradients of nearby sources; and sufficient receptor coverage and density to adequately capture and resolve the model predicted maximum SO<sub>2</sub> concentrations.

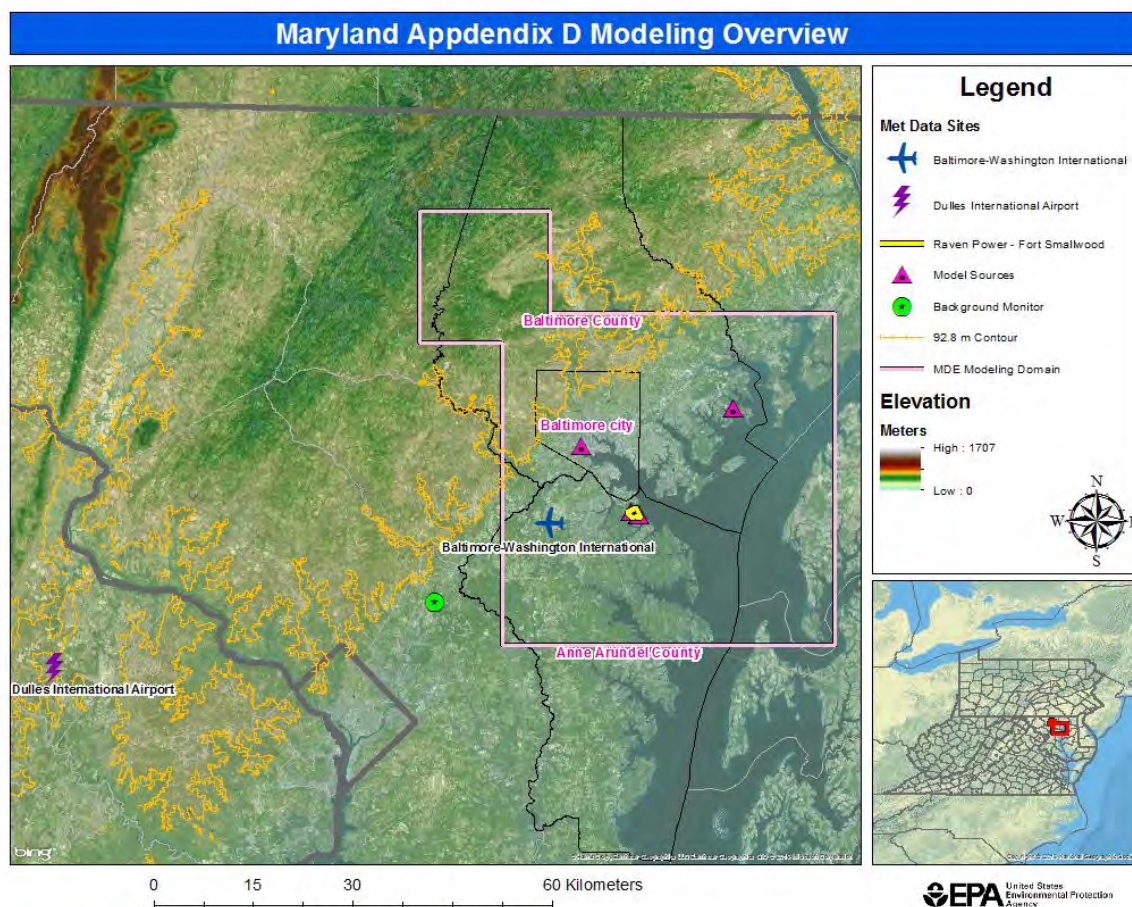
The grid receptor spacing for the area of analysis chosen by Maryland is as follows:

- 25 meter spacing along the Fort Smallwood ambient boundary (Brandon Shores/Wagner)
- Irregular spacing along ambient boundary for C.P. Crane
- 100m spacing within the first 4 km from Fort Smallwood and C.P. Crane
- 250m spacing from 4 km to 10 km from Fort Smallwood and C.P. Crane
- 500m spacing for the remainder of domain outside of 10 km from Fort Smallwood and C.P. Crane
- 250m spacing for the 20 km by 20 km grid added onto northwest corner of Sierra Club modeling domain

The receptor network contained 17,000 individual receptors and covered portions of Anne Arundel and Baltimore counties as well as the City of Baltimore. Figure 3 shows the chosen area of analysis surrounding the Wagner power plant, which along with Brandon Shores is part of the Fort Smallwood complex, as well as the domain for the modeling analysis. Consistent with the Modeling TAD, receptors for the purposes of this designation effort were placed only in areas where it would also be feasible to place a monitor and record ambient air impacts. The impacts of the area's geography and topography will be discussed later within this document.



**Figure 3. Overview of Modeling Domain for the Wagner Area of Analysis**



For the area around the Wagner power plant, Maryland included emissions from Brandon Shores, which along with Wagner make up the Fort Smallwood complex, the Wheelabrator Baltimore Incinerator located in the City of Baltimore and C.P. Crane, a two (2) unit coal-fired power plant located in the eastern part of Baltimore County. The Wheelabrator Baltimore Incinerator is located approximately 12.5 km northwest of Wagner, and C.P. Crane is located almost 22 km northeast of Wagner. These facilities represent the largest operating SO<sub>2</sub> sources in the Wagner area. The combination of Maryland's choice of sources to model and the extent and distribution of model receptor points within the modeling domain ensures that the modeling analysis will properly assess source impacts in the Wagner area.

*Modeling Parameter: Source Characterization*

Maryland characterized the sources within the area of analysis in accordance with practices outlined as acceptable in the Modeling TAD. Specifically, Maryland used actual stack heights in conjunction with actual emission rates. Hourly emission rates were used for the Brandon Shores, C.P. Crane, and Wagner based on CEM data for these units. Emission rates for the Wheelabrator Baltimore Incinerator were held constant throughout the model simulation. Buildings at the Fort Smallwood complex (Brandon Shores and Wagner) were included in the modeling analysis, allowing for downwash assessment to be included for the area immediately surrounding the Wagner power plant. This building information was processed using EPA's BPIP-PRIME (version 04274) program. Units at Brandon Shores are vented through a dual-flue stack. The modeling uses merged stack principles<sup>8</sup> when both units are operating simultaneously. In addition to hourly varying emission rates for Brandon Shores, C.P. Crane, and Wagner, stack temperatures and velocity rates varied on an hourly basis based on company provided CEM data.

#### *Modeling Parameter: Emissions*

The EPA's Modeling TAD notes that for the purposes of modeling to characterize air quality for use in designations, the recommended approach is to use the most recent three (3) years of actual emissions data and concurrent meteorological data. However, the TAD also provides for the flexibility of using allowable emissions in the form of the most recently permitted (referred to as PTE or allowable) emissions rate.

The EPA believes that CEMS data provide acceptable historical emissions information when it is available and that these data are available for many electric generating units. In the absence of CEMS data, the EPA's Modeling TAD highly encourages the use of AERMOD's hourly varying emissions keyword HOUREMIS or through the use of AERMOD's variable emissions factors keyword EMISFACT. When choosing one of these methods, the EPA believes that detailed throughput, operating schedules, and emissions information from the impacted sources should be used.

In certain instances, states and other interested parties may find that it is more advantageous or simpler to use PTE rates as part of their modeling runs. Specifically, a facility may have recently adopted a new federally enforceable emissions limit, been subject to a federally enforceable consent decree, or implemented other federally enforceable mechanisms and control technologies to limit SO<sub>2</sub> emissions to a level that indicates compliance with the NAAQS. These new limits or conditions may be used in the application of AERMOD. In these cases, the Modeling TAD notes that the existing SO<sub>2</sub> emissions inventories used for permitting or SIP planning demonstrations should contain the necessary emissions information for designations-related modeling. In the event that these short-term emissions are not readily available, they may be calculated using the methodology in Table 8-1 of Appendix W to 40 CFR Part 51 titled, "Guideline on Air Quality Models."

As previously noted, Maryland included Wagner and three (3) other significant emitters of SO<sub>2</sub> within the City of Baltimore and Baltimore County. These included all of the major combustion units at Brandon Shores, C.P. Crane, and Wagner along with the Wheelabrator Baltimore Incinerator. Maryland believes the modeling domain adequately represents the area where

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<sup>8</sup> See Section 2.2 of the EPA's *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources*.



maximum concentrations of SO<sub>2</sub> are expected to occur and includes all sources which might contribute to those concentrations. No other sources were determined by Maryland to have the potential to cause significant concentration gradient impacts within the area of analysis. The facilities in the area of analysis and their associated annual actual SO<sub>2</sub> emissions from 2013 to 2015 are summarized in Table 4. The emissions were summed from the hourly emission file used in the modeling analysis to represent hourly varying emissions from units at Brandon Shores, C.P. Crane, and Wagner. Summed emissions and actual hourly emissions were based on CEMS data provided by the operators and were verified using the EPA's Clean Air Markets Division<sup>9</sup> for these three sources. As noted previously, the Wheelabrator Baltimore Incinerator used a constant emission rate over the simulation period.

**Table 4. Actual SO<sub>2</sub> Emissions in 2013-15 from Facilities in Maryland's Area of Analysis**

Facility Name	SO <sub>2</sub> Emissions (tons per year or tpy)		
	2013	2014	2015
Brandon Shores Unit 1	1,389.0	1,669.9	1,310.1
Brandon Shores Unit 2	1,481.3	1,475.2	1,642.5
C.P. Crane Unit 1	831.3	573.4	387.9
C.P. Crane Unit 2	2,140.3	1,313.8	953.9
Wagner Unit 1	0.2	72.6	65.1
Wagner Unit 2	1,568.3	1,946.7	1,185.9
Wagner Unit 3	8,553.5	7,276.1	8,756.6
Wagner Unit 4	72.7	322.5	186.2
Wheelabrator Baltimore Incinerator	438.0	438.0	438.0
Total Emissions From All Facilities in Maryland's Area of Analysis	<b>16,474.6</b>	<b>15,088.2</b>	<b>14,926.2</b>

#### *Modeling Parameter: Meteorology and Surface Characteristics*

The most recent 3 years of meteorological data (concurrent with the most recent 3 years of emissions data) should be used in designations efforts. As noted in the Modeling TAD, the selection of data should be based on spatial and climatological (temporal) representativeness. The representativeness of the data are based on: 1) the proximity of the meteorological monitoring site to the area under consideration, 2) the complexity of terrain, 3) the exposure of the meteorological site, and 4) the period of time during which data are collected. Sources of meteorological data include National Weather Service (NWS) stations, site-specific or onsite data, and other sources such as universities, the Federal Aviation Administration (FAA), and military stations.

For the Wagner area of analysis, surface meteorology from the NWS station at the BWI airport, approximately 12 km west of the Fort Smallwood Complex and coincident upper air

<sup>9</sup> <https://ampd.epa.gov/ampd/>

observations from the NWS station at the Dulles Airport, approximately 91 km to the west-southwest were selected (*see* Figure 3). This data was considered representative of meteorological conditions within the area of analysis.

Maryland used AERSURFACE version 13016 using data from the BWI NWS station south of the City of Baltimore located at 39.1733 N latitude and 76.6841 W longitude to estimate the surface characteristics of the area of analysis. AERSURFACE was run using the standard twelve (12) 30° sectors. Surface characteristics included albedo (the fraction of solar energy reflected from the earth back into space), Bowen ratio (the method generally used to calculate heat lost or heat gained in a substance), and surface roughness (sometimes referred to as “Zo”). These values varied monthly. Bowen ratios were adjusted based on precipitation values to be either wet, dry or average. Surface roughness was calculated based on land use categories from the 1992 USGS land cover database for Maryland out to 1 km from the BWI ASOS tower location.

Meteorological data from the BWI and Dulles Airport surface and upper air stations were used in generating AERMOD-ready files with the AERMET processor. The output meteorological data created by the AERMET processor is suitable for being applied with AERMOD input files for AERMOD modeling runs. Maryland generally followed the EPA’s preferred methodology and settings in the processing of the raw meteorological data into an AERMOD-ready format, and used AERSURFACE to best represent surface characteristics.

Hourly surface meteorological data records are read by AERMET, and include all the necessary elements for data processing. However, wind data taken at hourly intervals may not always portray wind conditions for the entire hour, which can be variable in nature. Hourly wind data may also be overly prone to indicate calm conditions, which are not modeled by AERMOD. In order to better represent actual wind conditions at the meteorological tower, wind data of 1 minute duration was provided from the same instrument tower, but in a different formatted file to be processed by a separate preprocessor, AERMINUTE. These data were subsequently integrated into the AERMET processing to produce final hourly wind records of AERMOD-ready meteorological data that better estimate actual hourly average conditions and that are less prone to over-report calm wind conditions. This allows AERMOD to apply more hours of meteorology to modeled inputs, and therefore produce a more complete set of concentration estimates. As a guard against excessively high concentrations that could be produced by AERMOD in very light wind conditions, Maryland set a minimum threshold of 0.5 meters per second in processing meteorological data for use in AERMOD. This approach is consistent with a March 2013 EPA memo titled, “Use of ASOS meteorological data in AERMOD dispersion Modeling.” In setting this threshold, no wind speeds lower than this value would be used for determining concentrations. This threshold was specifically applied to the 1-minute wind data.

#### *Modeling Parameter: Geography and Terrain*

The Fort Smallwood complex sits on the western shore of the Chesapeake Bay southeast of the City of Baltimore. Elevations are relatively flat in the immediate area of Wagner since it resides on the Atlantic Coastal Plain. Terrain rises to the northwest as the Atlantic Coastal Plain physiographic province gives way to the higher terrain of the Piedmont.

To account for these terrain changes, the AERMAP terrain program within AERMOD was used to specify terrain elevations for all the receptors. The source of the elevation data incorporated into the model was the USGS National Elevation Database.

*Modeling Parameter: Background Concentrations of SO<sub>2</sub>*

The Modeling TAD offers two mechanisms for characterizing background concentrations of SO<sub>2</sub> that are ultimately added to the modeled design values: 1) a “first tier” approach, based on monitored design values, or 2) a temporally varying approach, based on the 99<sup>th</sup> percentile monitored concentrations by hour of day and season or month. For the Wagner area of analysis, Maryland chose to use a seasonally varying by wind sector background from the Beltsville SO<sub>2</sub> monitor. The Essex monitor is the closest monitor to the Wagner and Fort Smallwood complex (approximately 15 km northeast). Due to its close proximity to Wagner and other nearby large SO<sub>2</sub> sources, the Essex monitor is probably influenced by these sources bringing up the possibility of “double counting” where source contributions are being made in both the modeling analysis and the representative background concentration. Using Beltsville, located in Maryland’s Prince George’s County approximately 33 km southwest of Wagner and the Fort Smallwood Complex, minimizes this possibility. .

*Summary of Modeling Results*

The AERMOD modeling parameters, as supplied by additional information from Maryland during the comment period for the Wagner area of analysis are summarized below in Table 5.

**Table 5. AERMOD Modeling Parameters for the Wagner Area of Analysis**

Wagner, MD Area of Analysis	
AERMOD Version	15181
Dispersion Characteristics	Rural
Modeled Sources	4
Modeled Stacks	9
Modeled Structures	16
Modeled Fence lines	2
Total receptors	17,000
Emissions Type	Actual (Hourly Varying)
Emissions Years	2013-15
Meteorology Years	2013-15
Surface Meteorology Station	BWI Airport, MD
Upper Air Meteorology Station	Dulles Airport, VA
Methodology for Calculating Background SO <sub>2</sub> Concentration	Wind Sector, Seasonal
Calculated Background SO <sub>2</sub> Concentration	Varies by Wind Sector and Season

The results presented below in Table 6 show the magnitude and geographic location of the highest predicted modeled concentration based on actual emissions.

**Table 6. Maximum Predicted 99th Percentile 1-Hour SO<sub>2</sub> Concentration in the Wagner Area of Analysis Based on Actual Emissions**

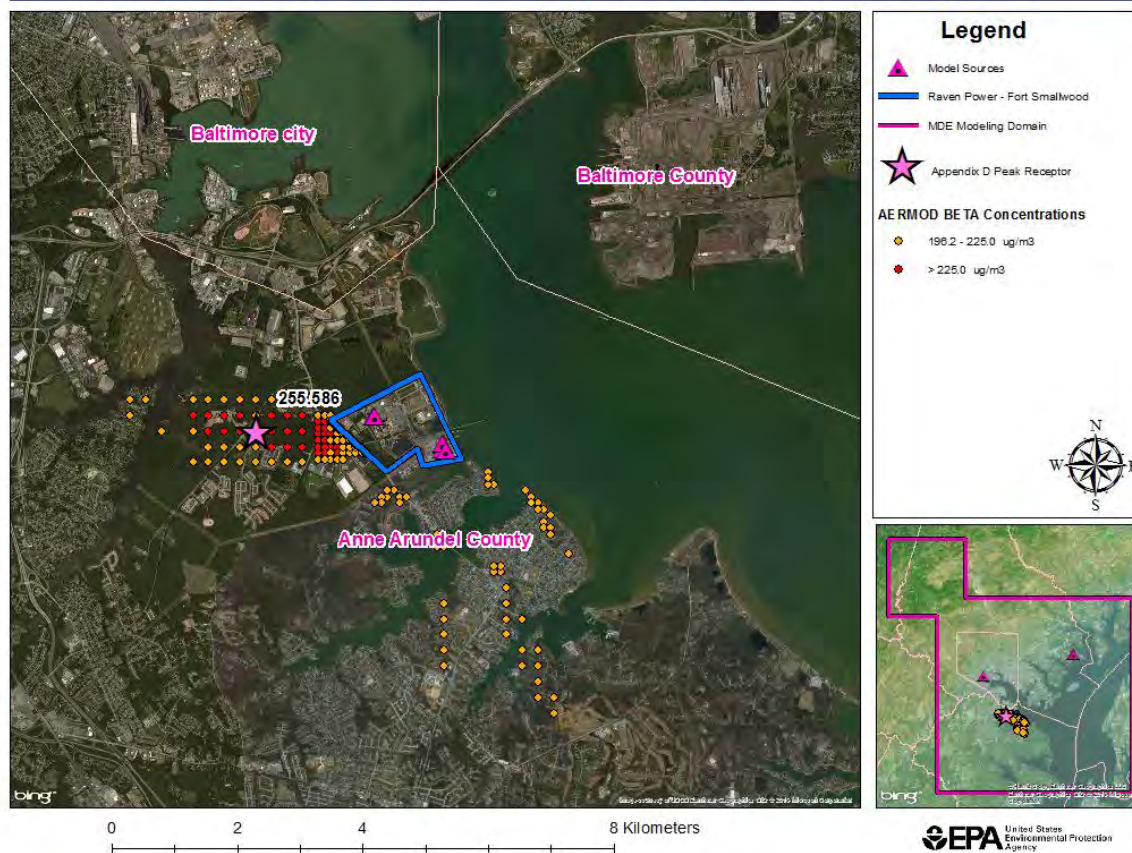
Averaging Period	Data Period	Receptor Location		SO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	
		UTM z18 E (m)	UTM z18 N (m)	Modeled (including background)	NAAQS
99th Percentile 1-Hour Average	2013-15	365075	4337890	255.586	196.5*

\*Equivalent to the 2010 SO<sub>2</sub> NAAQS set at 75 ppb

Modeling included in Maryland's Appendix D indicates that the highest predicted 3-year average 99<sup>th</sup> percentile 1-hour average concentration within the chosen modeling domain is 255.6 µg/m<sup>3</sup>, or ~98 ppb. This modeled concentration included a background SO<sub>2</sub> concentration, and is based on actual emissions from the Brandon Shores, C.P. Crane, Wagner, and the Wheelabrator Baltimore Incinerator. Figure 4 shows the model receptors that exceed the 1-hour SO<sub>2</sub> NAAQS. Violating model receptors in Maryland's Appendix D modeling analysis occur within 6 km of the Fort Smallwood Complex and Wagner. The model peak concentration occurs to the west of Wagner with additional violating receptors also located to the south and southwest.

**Figure 4. Maximum Predicted 99<sup>th</sup> Percentile 1-Hour SO<sub>2</sub> Concentrations in the Wagner Area of Analysis Based on Actual Emissions**

## MDE April 19, 2016 Submittal - App D - BETA Modeling Analysis



### Emissions and Emissions-Related Data

A thorough discussion of emissions from Wagner and other nearby sources can be found in the TSD for our intended designation, however, some additional emissions and emissions-related information is provided in this final TSD. With regards to relevant emissions information, the EPA further considered the emission rates and limits of C.P. Crane and the Wheelabrator Baltimore Incinerator. Crane has a significantly higher hourly emission limits (Table 7) and actual hourly emission rates (Table 8) in comparison to the Baltimore Incinerator. While both Crane and the Baltimore Incinerator have similar annual emission limits, the hourly limit is more important due to the 1-hour SO<sub>2</sub> NAAQS. Furthermore, Crane does not have any SO<sub>2</sub> emission control devices installed and operating, whereas Wheelabrator operates with a “slaked lime” spray dryer absorber (SDA). Each of Crane’s two (2) unit hourly emission limits are over 17 times greater than the Baltimore Incinerator’s. Crane’s maximum actual hourly emission rates are 8 to 14 times higher than the Baltimore Incinerator. Based on this emissions information, the impact of Crane’s emissions on the area’s air quality is likely much greater than that of the Baltimore Incinerator.

**Table 7. Allowable Emission Limits based on Crane and Baltimore Incinerator Title V Permits**

Source	Hourly Limit	Boiler Rating	Hourly Limit (lbs/hr)	Annual Limit (tpy)
Crane Unit 1	3.5 lbs/MmBTU	1,865MmBTU/hr	~6,527.50	1,532
Crane Unit 2	3.5 lbs/MmBTU	1,865MmBTU/hr	~6,527.50	1,646
Wheelabrator Baltimore Incinerator			375	1,478

**Table 8. Modeled (Actual) Emission Rates**

Source	Rate	lbs/hr	Total (tpy)		
			2013	2014	2015
Crane Unit 1	Variable	0.0 to 2,966.7	831.3	573.4	387.9
Crane Unit 2	Variable	0.0 to 5,409.7	2,140.3	1,313.8	953.9
Wheelabrator Baltimore Incinerator	Fixed	100	438	438	438

Maryland's BETA Adjust U\* modeling analysis included a culpability analysis which showed source contribution for each receptor that exceeded the NAAQS; this area was confined to the area immediately surrounding Wagner (see Figure 4). Specifically, for violating receptors surrounding the Wagner generating station, modeled impacts from Crane Units 1 and 2 are four (4) times higher than modeled impacts from the Wheelabrator Baltimore Incinerator. Crane's maximum modeled impact to violating receptors in the Wagner area is  $4.9 \mu\text{g}/\text{m}^3$  versus the Baltimore Incinerators maximum modeled impact to violating receptors, which is  $1.2 \mu\text{g}/\text{m}^3$ .

Additionally, Crane's modeled impact in the immediate Wagner area may be greater than currently stated. First, modeled impacts are based on actual emissions, which may not reflect Crane's impact if in the future it emits closer to its hourly permitted emission rates (see Table 7). Actual maximum hourly rates for Crane are only 45% of permitted limits for Unit 1 and 83% of permitted limits for Unit 2. This estimate may be conservative since no analysis was done to examine how often both of Crane's units operate during the same hour; Crane's combined actual hourly emission rates may be a much smaller fraction of its combined hourly permitted emission rate. Second, the actual hourly model rates for Crane may not have occurred during worst-case meteorological conditions. Crane's hourly emissions were set to zero (0) for nearly 60% of the hours in the model simulation. By contrast, the Baltimore Incinerator's model impacts were fully assessed since it emitted during all hours of the simulation, thus including worst-case meteorological conditions. With so many hours at Crane set to zero (0) there is no way of assuring the units were on during the worst-case meteorological conditions so modeled impacts for Crane could actually be much higher. For reasons outlined in this section, the EPA has

determined that it is appropriate to include Crane in the Anne Arundel County and Baltimore County nonattainment area.

### Jurisdictional Boundaries

Once the geographic area of analysis associated with Wagner, other nearby sources of SO<sub>2</sub>, and background concentration is determined, existing jurisdictional boundaries are considered for the purpose of informing our final nonattainment area, specifically with respect to clearly defined legal boundaries. Given that existing jurisdictional boundaries do not appear suitable for defining the nonattainment area surrounding Wagner (discussed in detail in the TSD for our intended designation, p. 47-49), the EPA's position is that an alternative to using jurisdictional boundaries is to draw a circle around the sources most impacting the area's air quality and all modeled violating receptors. Similar to the EPA's proposed nonattainment area boundary, and considering the new modeling analysis submitted by Maryland that uses the BETA Adjust U\* option, the EPA finds that a circle drawn with a radius extending out 26.8 km from Wagner's Unit 3 stack (located at 39.17765N latitude, 76.52752W longitude) is an appropriate boundary. Such a circle encloses portions of Anne Arundel and Baltimore Counties, which contain all of the violating receptors and sources most impacting the area for the SO<sub>2</sub> NAAQS.

Maryland's April 19, 2016, submittal provided a recommended boundary around Wagner consisting of roads and a land/water interface. The EPA disagrees with such a boundary in that it only includes the modeled violations within approximately 6 kilometers of Wagner and does not include the impacts of the C.P. Crane power plant. Additionally, the EPA does not find such a boundary suitable because roads have the potential to shift, which could alter the nonattainment area boundary. The EPA finds that our final nonattainment area, consisting of portions of Anne Arundel and Baltimore Counties that are within 26.8 kilometers of Herbert A. Wagner's Unit 3 stack, which is located at 39.17765N latitude, 76.52752W longitude, are comprised of clearly defined legal boundaries, and we find these boundaries to be a suitably clear basis for defining our final nonattainment area.

### Conclusion

After careful evaluation of the state's recommendations, all timely comments and information received during the state and public comment period, and additional relevant information as discussed in this document, the EPA determines that the area around Wagner is not meeting the NAAQS, and therefore is designating the area as nonattainment for the 2010 SO<sub>2</sub> NAAQS. Specifically, the area is comprised of portions of Anne Arundel and Baltimore Counties that are within 26.8 kilometers of Herbert A. Wagner's Unit 3 stack, which is located at 39.17765N latitude, 76.52752W longitude. After taking into consideration all of the air dispersion modeling analyses the EPA received both prior to and during the comment period, the EPA believes Maryland's modeling analysis, which uses the BETA Adjust U\* option, showing SO<sub>2</sub> NAAQS violations occurring in the immediate vicinity of Wagner, to be most representative of actual air quality in the area. The EPA finds that Maryland's BETA Adjust U\* AERMOD simulation included in Maryland's Appendix D most closely follows the Modeling TAD and EPA's March 20, 2015 guidance, and is therefore the most accurate representation currently available of air quality in the Wagner area.

Additionally, based on the weight of evidence of available source contribution information and emissions data, the EPA finds that the C.P. Crane power plant in neighboring Baltimore County contributes to the SO<sub>2</sub> NAAQS violations occurring in the immediate vicinity of Wagner, and as such, believes a nonattainment boundary which includes Crane is appropriate. Furthermore, the EPA has determined based on the weight of evidence of available source contribution information, emissions data, and an installed and operational emissions control device at Wheelabrator, that the Wheelabrator Baltimore Incinerator in neighboring Baltimore City should not be included in the nonattainment area.

At this time, our final designation for the state only applies to this area and the other area contained in this final TSD. Consistent with the court-ordered schedule, the EPA will evaluate and designate all remaining undesignated areas in Maryland by either December 31, 2017, or December 31, 2020.

## **Technical Analysis for Baltimore City, Maryland Unclassifiable/Attainment Area**

### Introduction

In its April 19, 2011, submission to the EPA for the initial designations for the 2010 SO<sub>2</sub> NAAQS, Maryland recommended that Baltimore City be designated as unclassifiable. Maryland did not update its recommendation for Baltimore City in its 2015 updated recommendation.

On February 16, 2016, the EPA notified Maryland that we intended to designate the Baltimore City, Maryland area as unclassifiable/attainment, based on our view that the area was meeting the NAAQS and not contributing to the violations occurring in Baltimore County and Anne Arundel County. Additionally, we informed Maryland that our intended boundary for Baltimore City for the unclassifiable/attainment area consisted of Baltimore City's jurisdictional boundary.

Our intended designation and associated boundaries were based on air dispersion modeling showing persuasive evidence that SO<sub>2</sub> NAAQS violations are not occurring in Baltimore City. Detailed rationale, analyses, and other information supporting our intended designation for this area can be found in the TSD for our intended designation for Maryland, and this document along with all others related to this rulemaking can be found in Docket ID EPA-HQ-OAR-2014-0464.

The EPA is explicitly incorporating and relying upon the analyses and information presented in the TSD for our intended designation for the purposes of our final designation for this area, except to the extent that any new information submitted to the EPA or conclusions presented in this final TSD and our response to comments document (RTC), available in the docket, supersede those found in the TSD for our intended designation. Namely, Maryland's new modeling analysis discussed earlier in this document which relied upon the BETA Adjust U\* option shows no NAAQS violations in Baltimore City. The EPA finds that Maryland's BETA Adjust U\* AERMOD simulation included in Maryland's Appendix D most closely follows the Modeling TAD and the EPA's March 20, 2015, guidance, and therefore continues to support an



unclassifiable/attainment designation for Baltimore City (*See* the “State of Maryland Appendix D Modeling Summary” section discussed above).

Given these modeling results and that there are no large SO<sub>2</sub> emissions sources located within Baltimore City that could be impacting areas outside of Baltimore City, as well as no violating monitors in the area and limited terrain, the EPA believes there is persuasive evidence to support a conclusion that Baltimore City is meeting the NAAQS and is not contributing to a nearby area that does not meet the NAAQS and that a designation of unclassifiable/attainment is appropriate. Therefore, the EPA designates Baltimore City as unclassifiable/attainment for the 2010 SO<sub>2</sub> NAAQS.

#### Jurisdictional Boundaries:

The EPA notes that our final unclassifiable/attainment area, consisting of Baltimore City is comprised of a clearly defined legal boundary, and we find this boundary to be a suitably clear basis for defining our final unclassifiable/attainment area.

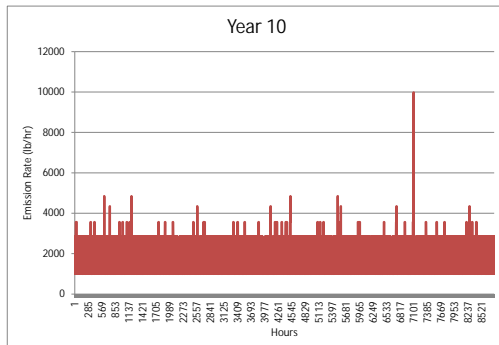
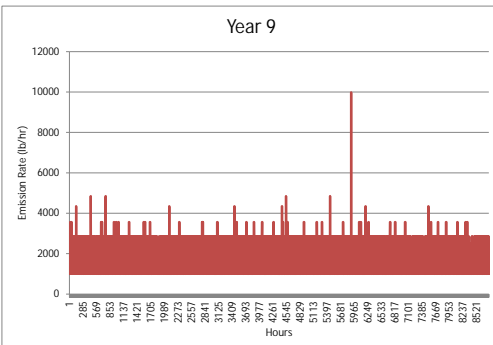
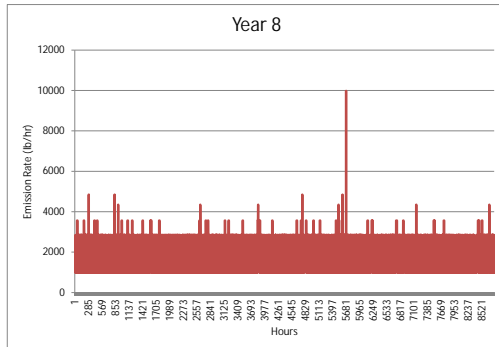
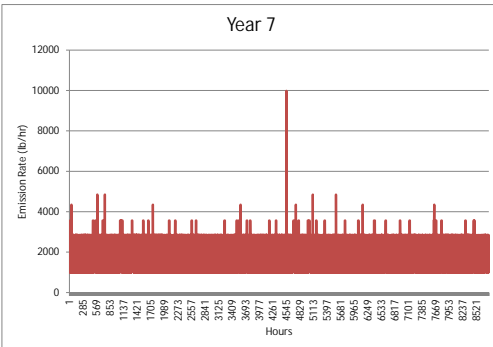
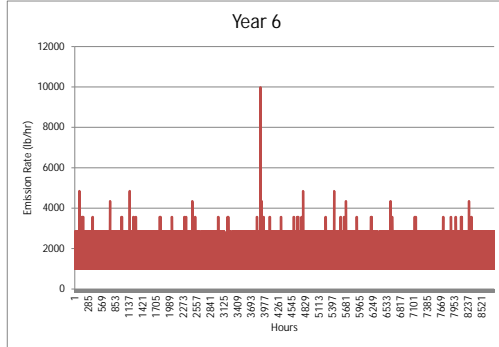
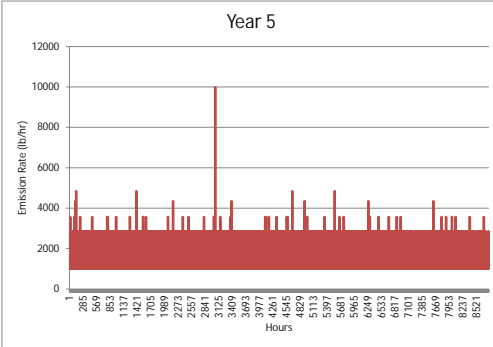
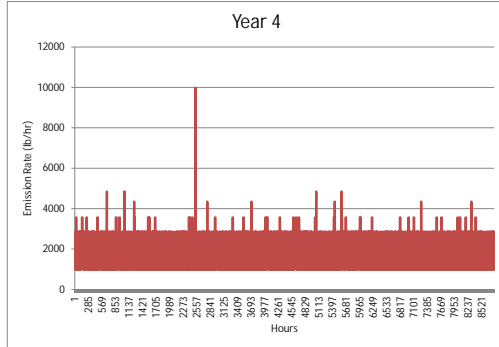
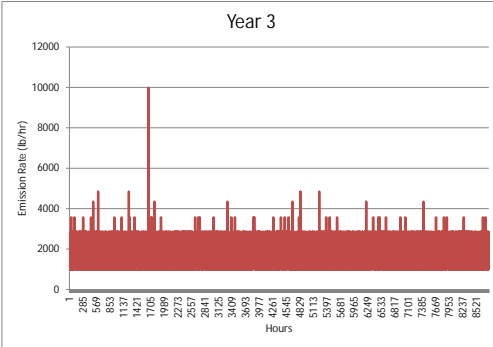
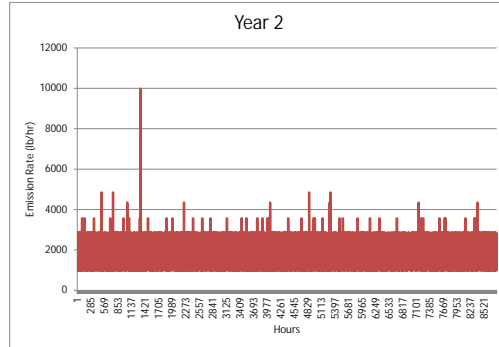
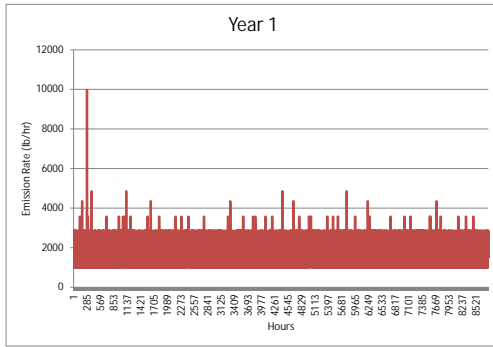
#### Conclusion

After careful evaluation of the Maryland’ recommendation, all timely comments and information received during the state and public comment period, and additional relevant information as discussed in this document, the EPA is designating Baltimore City as unclassifiable/attainment for the 2010 SO<sub>2</sub> NAAQS. Specifically, the area is comprised of Baltimore City’s jurisdictional boundary.

## Appendix B

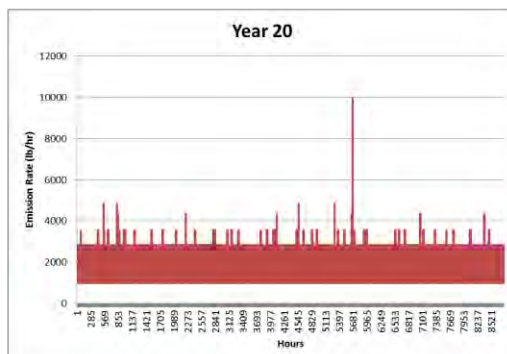
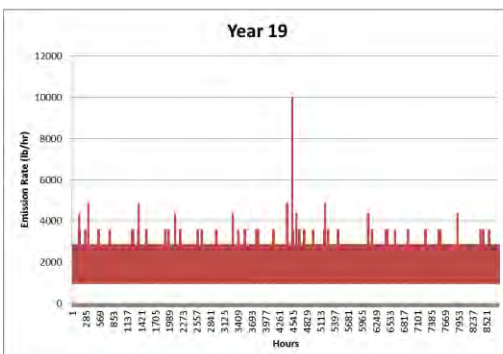
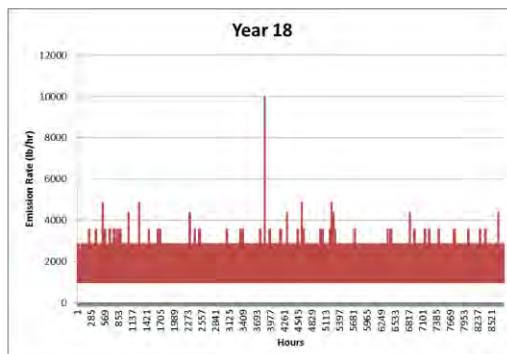
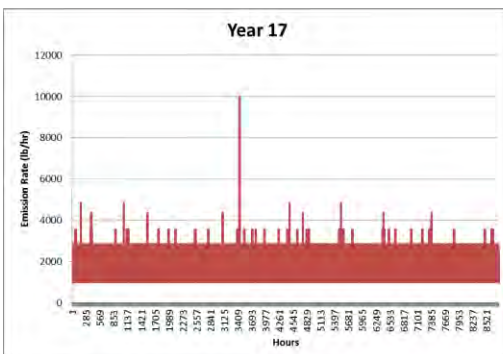
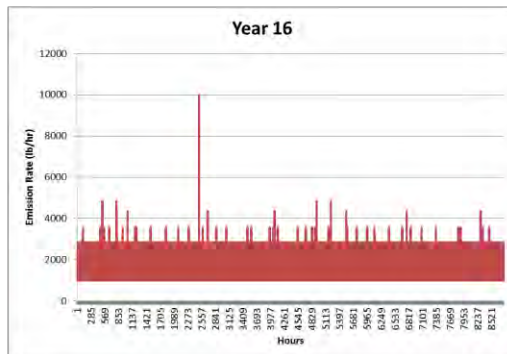
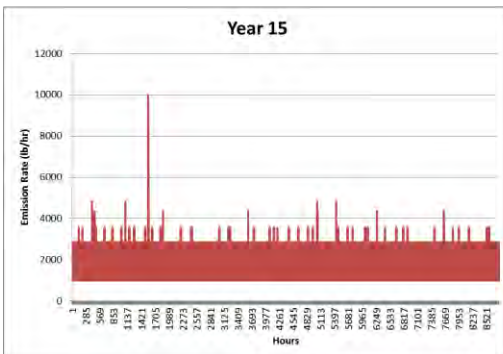
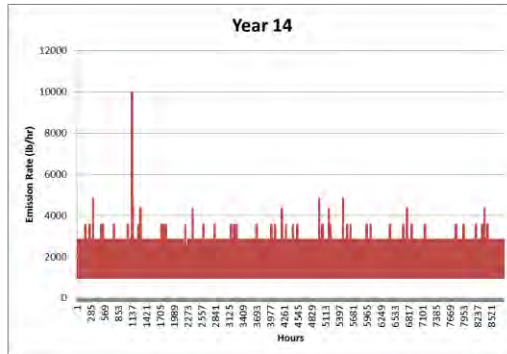
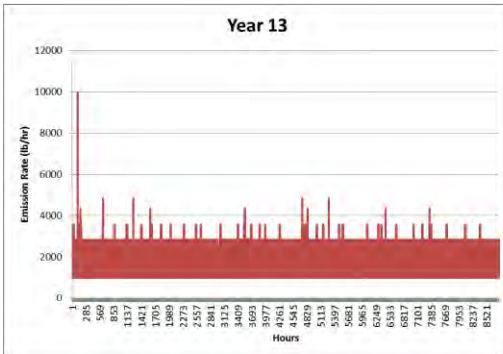
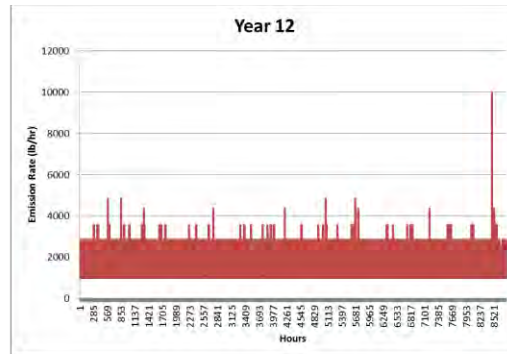
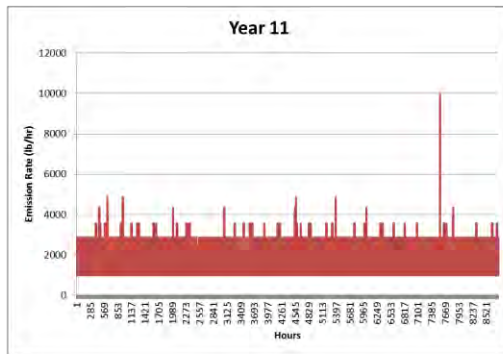
### **Time Series Plots of 100 Years Simulated Emissions for Brandon Shores Case 1**

SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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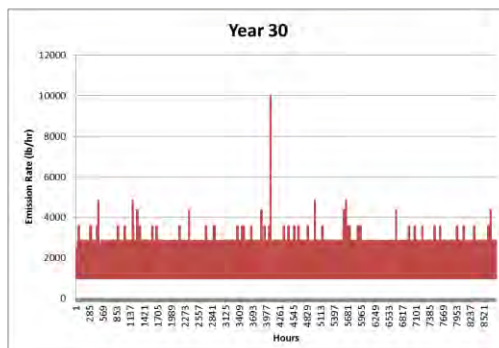
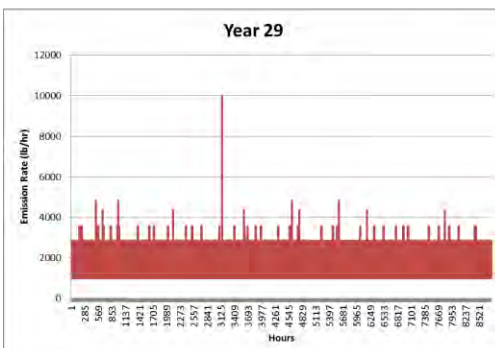
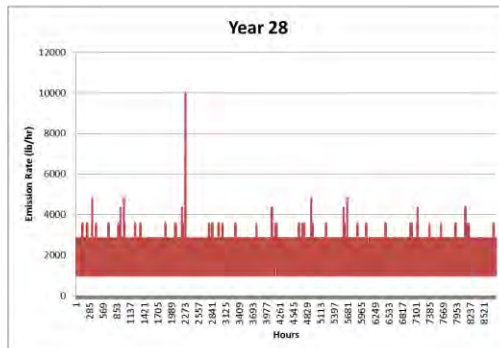
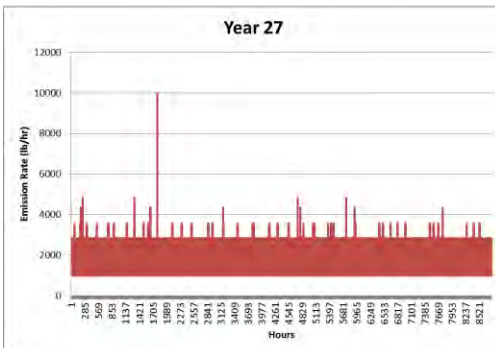
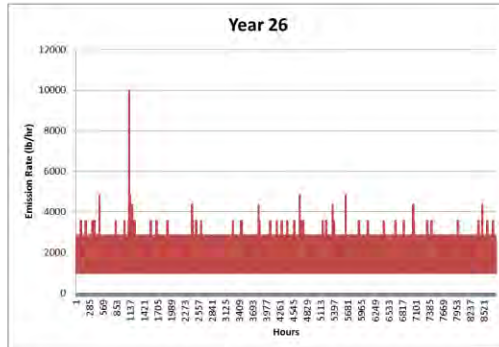
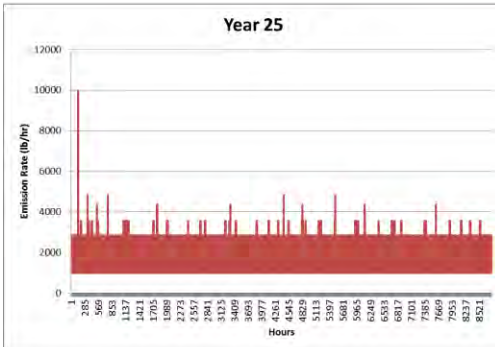
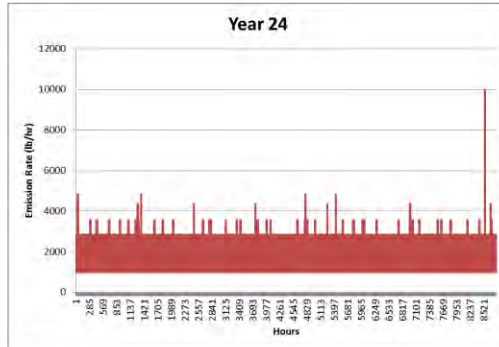
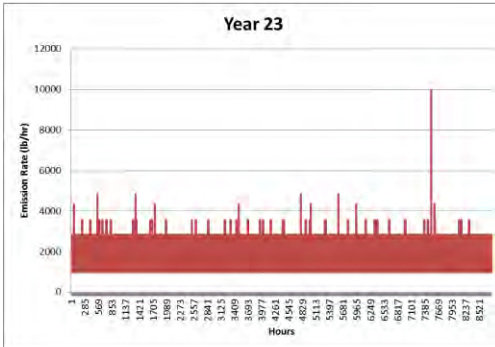
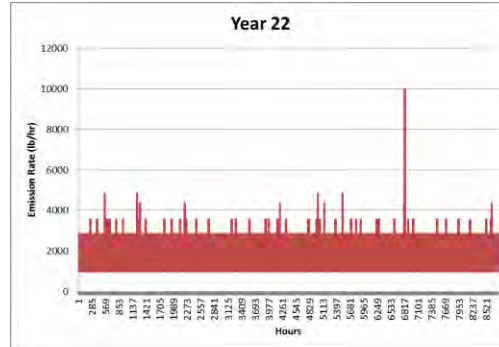
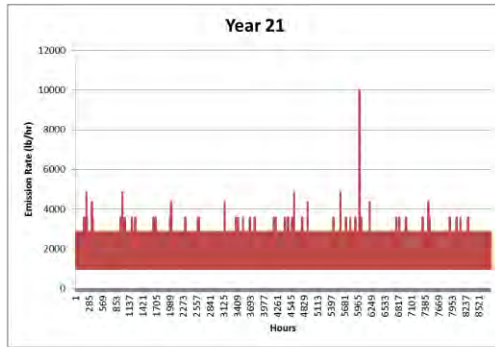




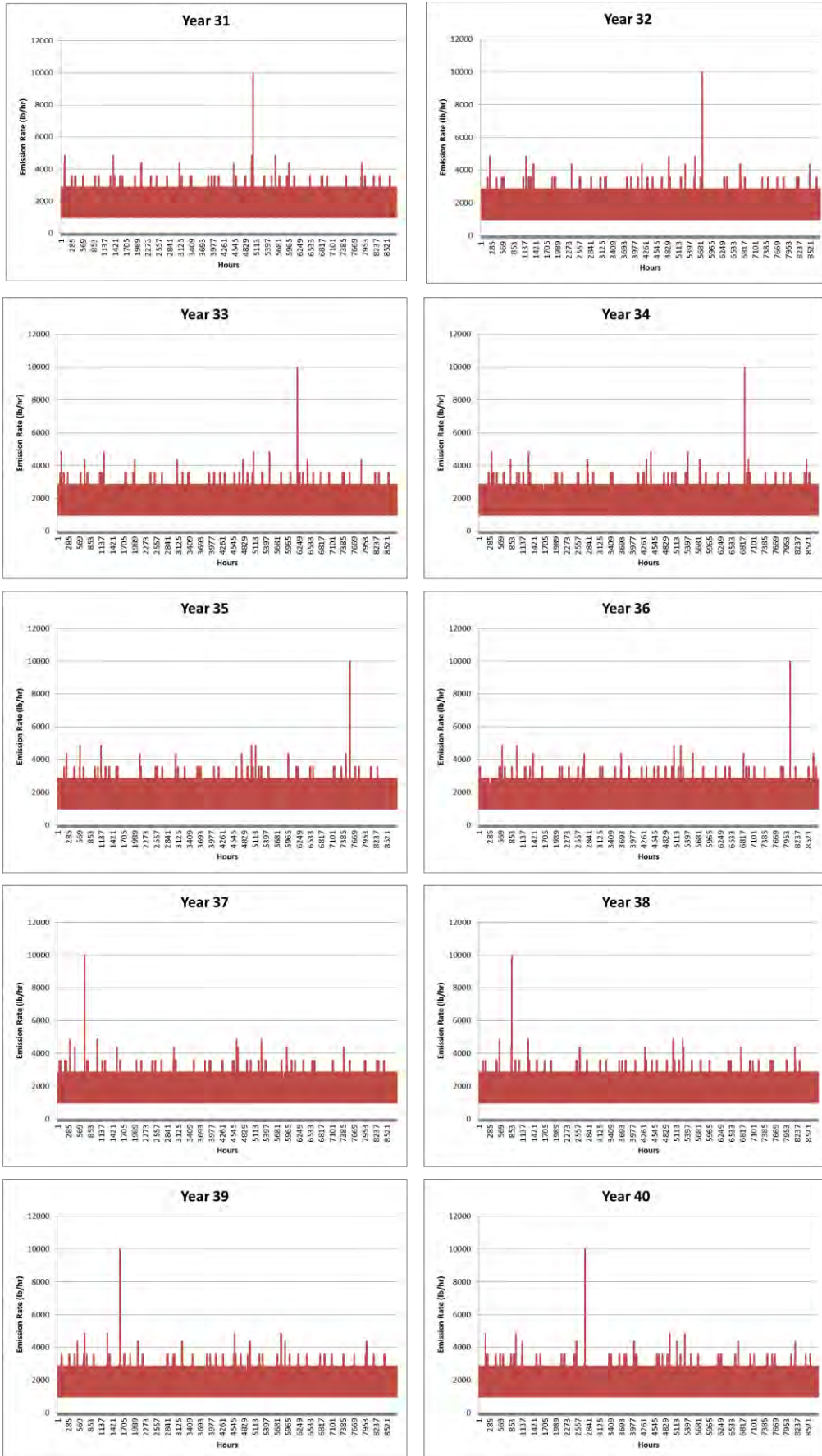
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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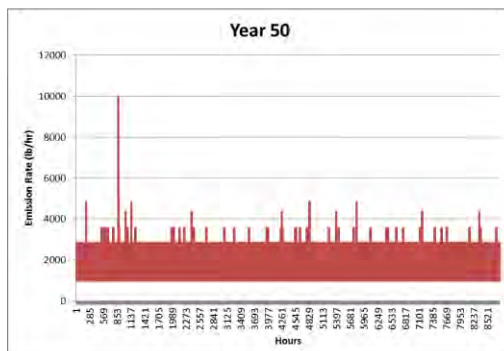
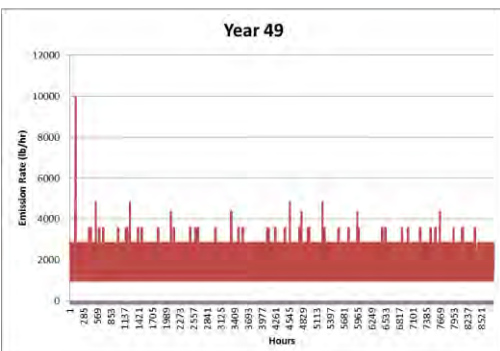
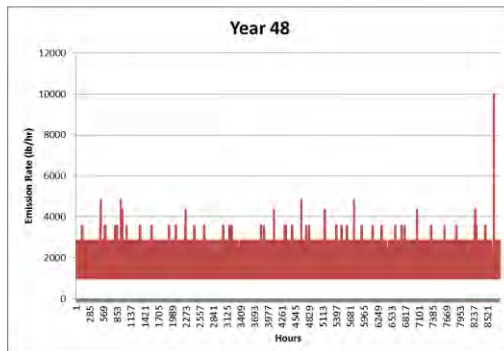
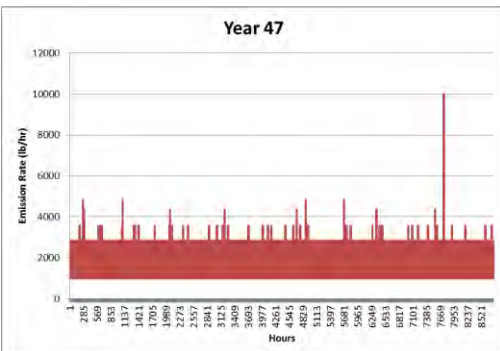
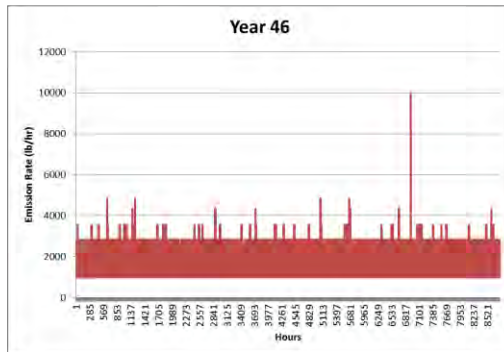
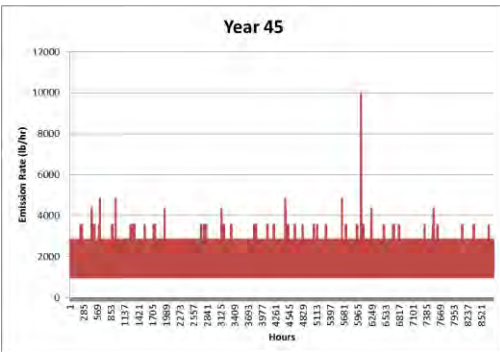
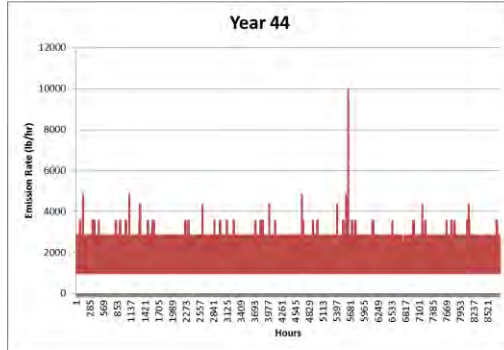
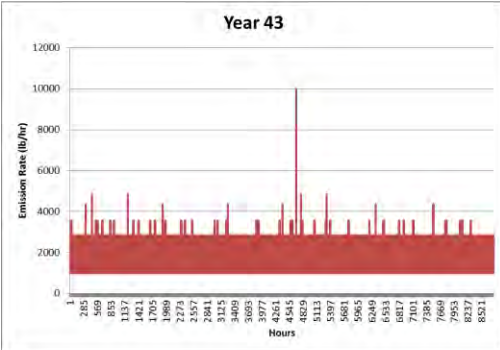
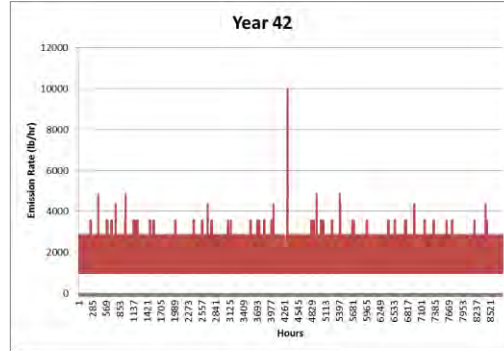
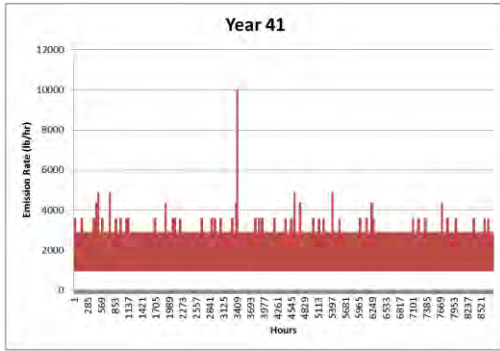


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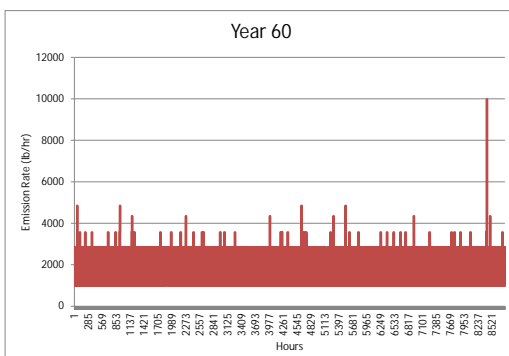
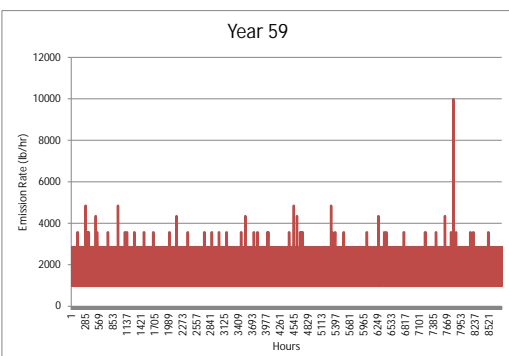
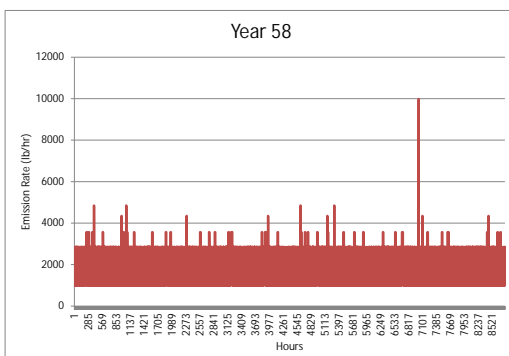
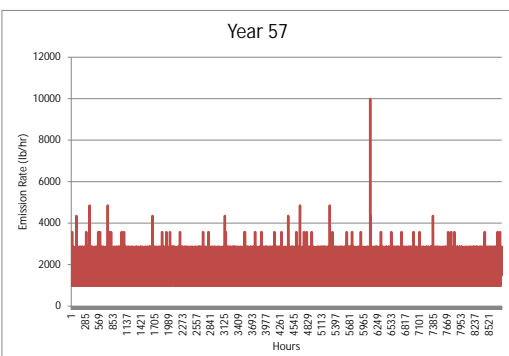
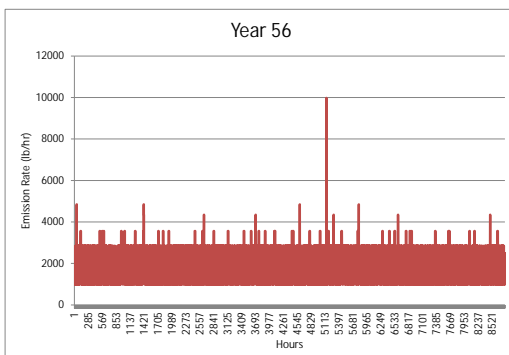
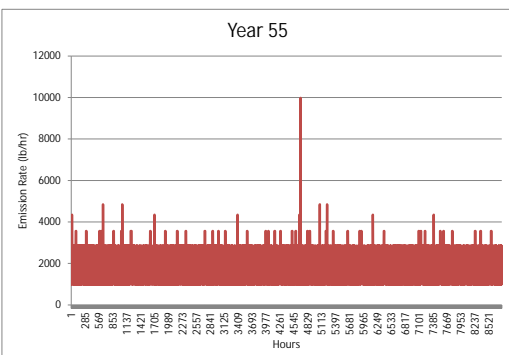
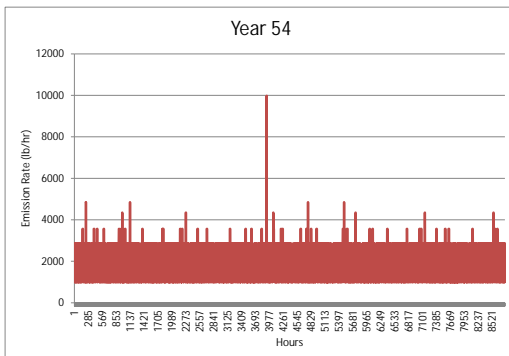
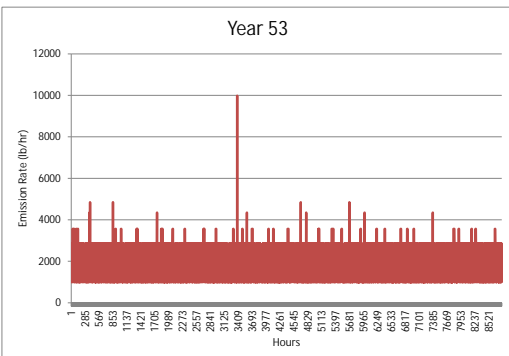
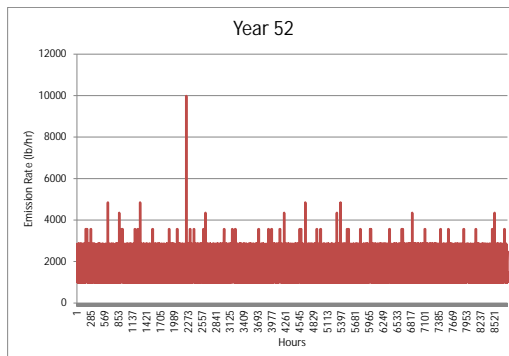
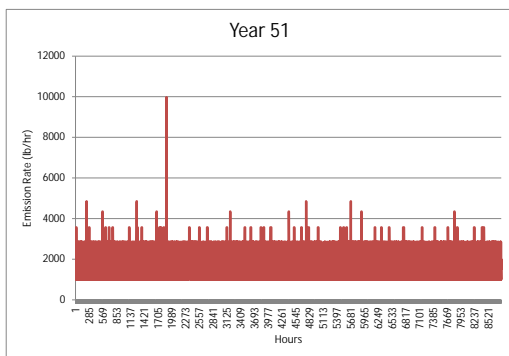


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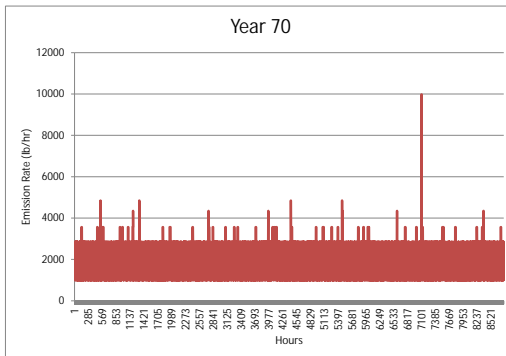
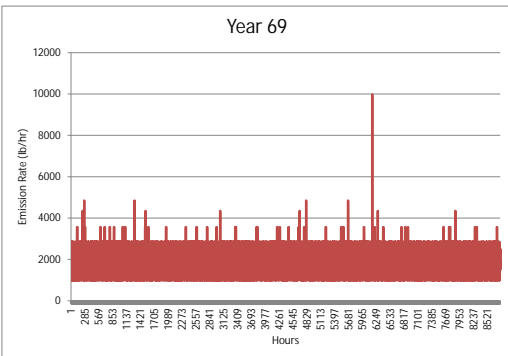
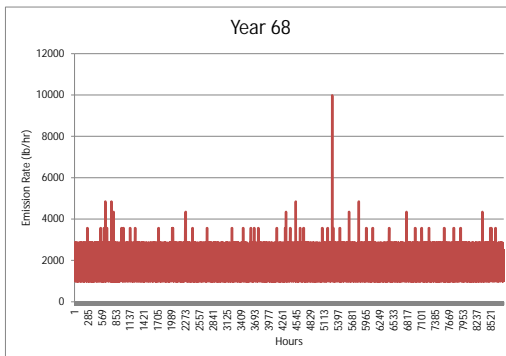
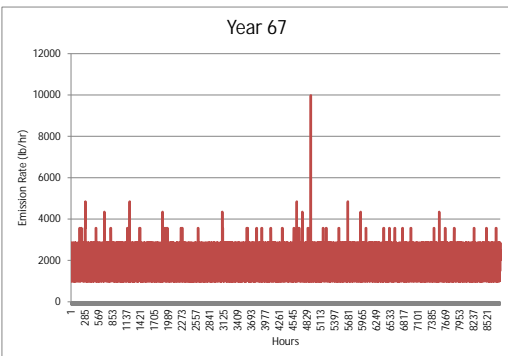
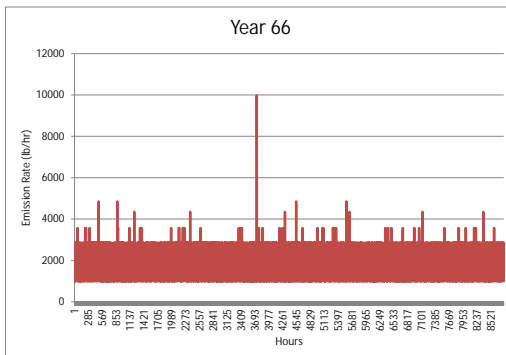
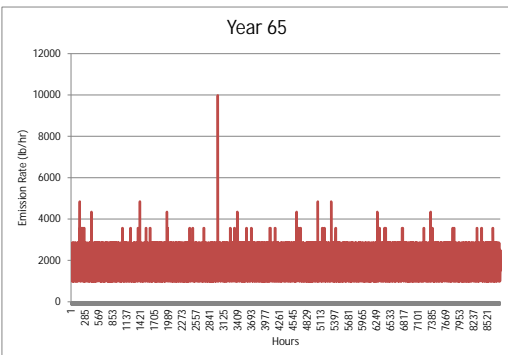
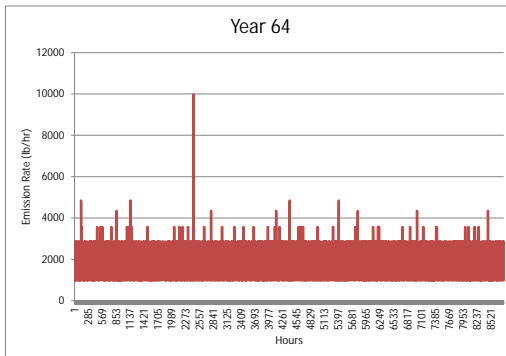
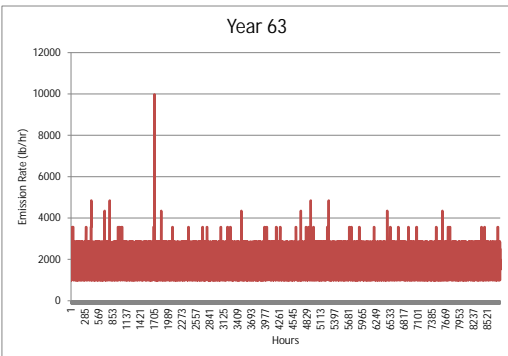
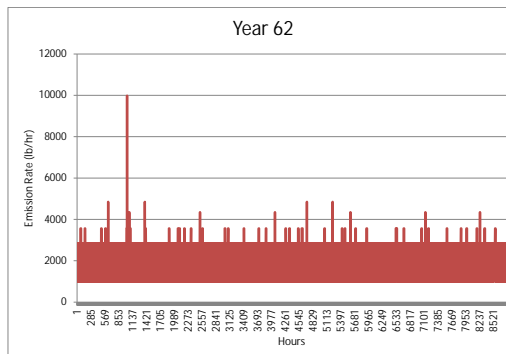
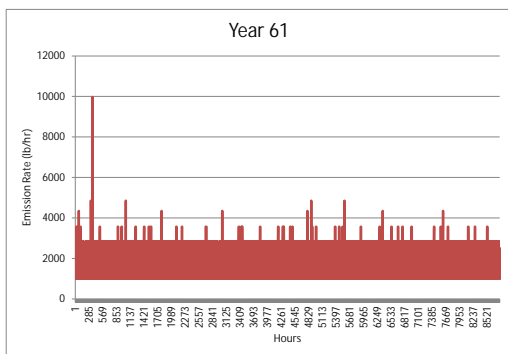




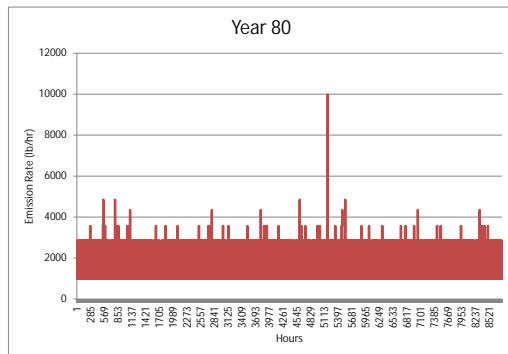
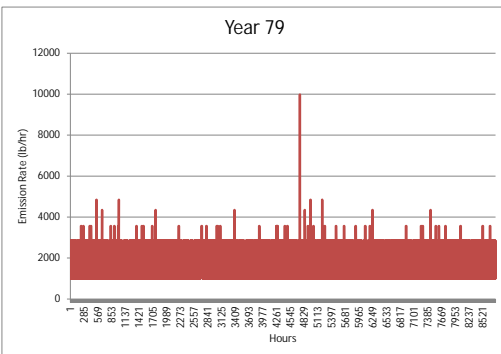
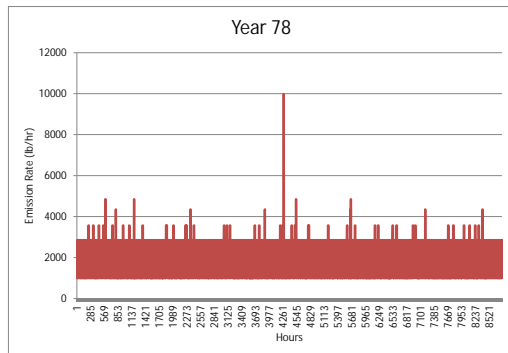
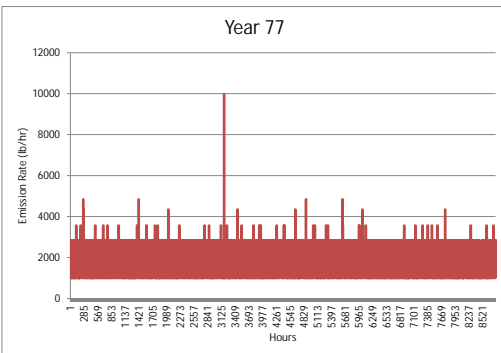
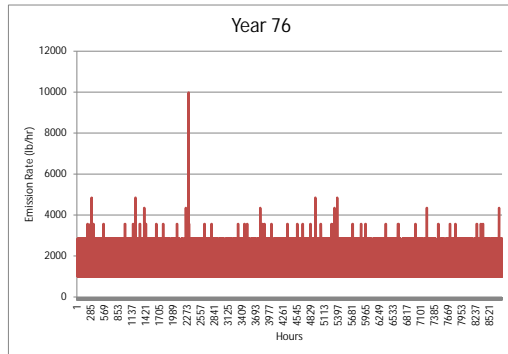
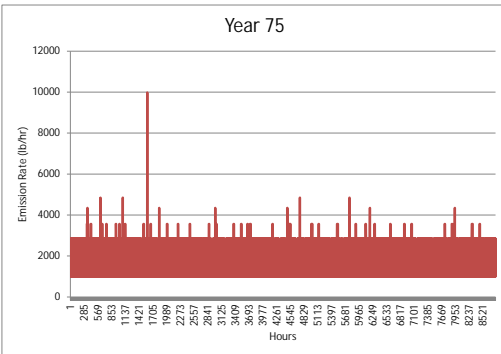
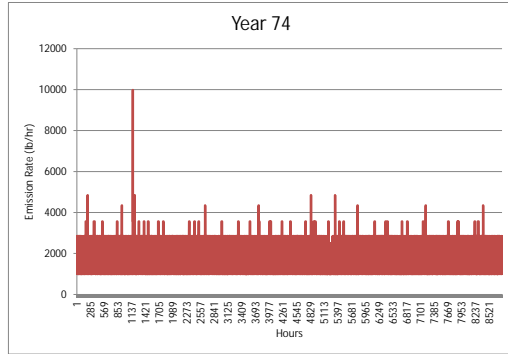
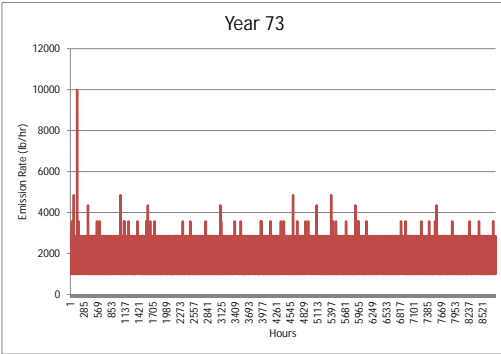
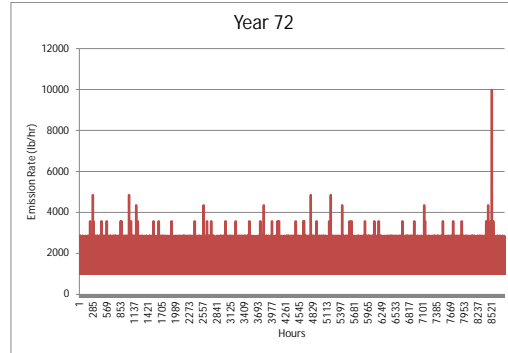
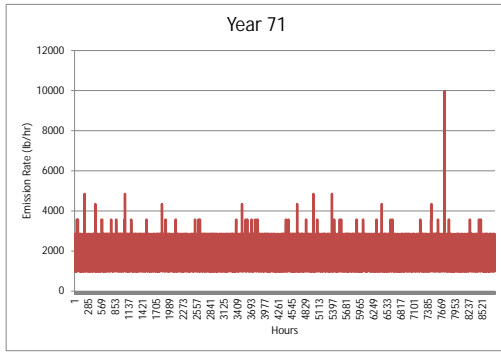
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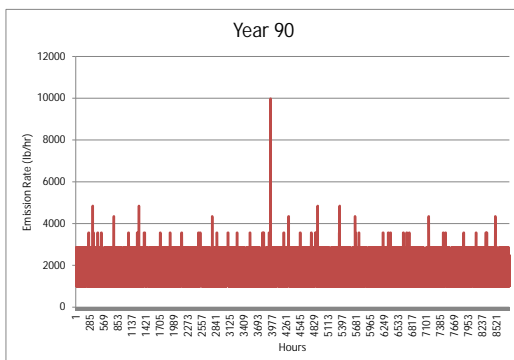
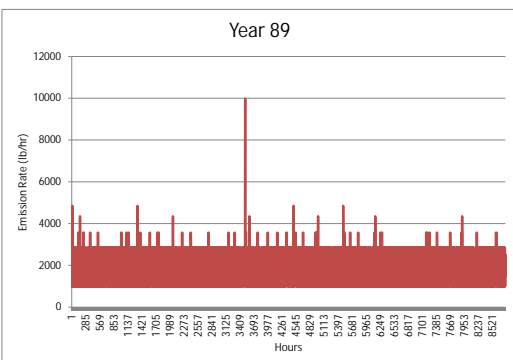
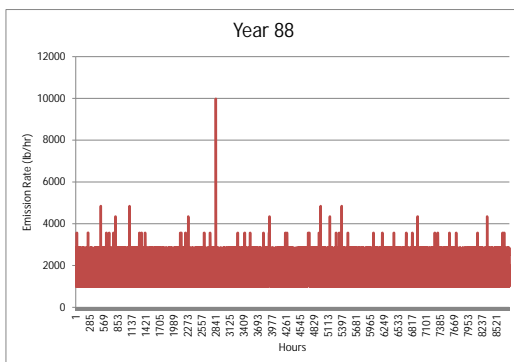
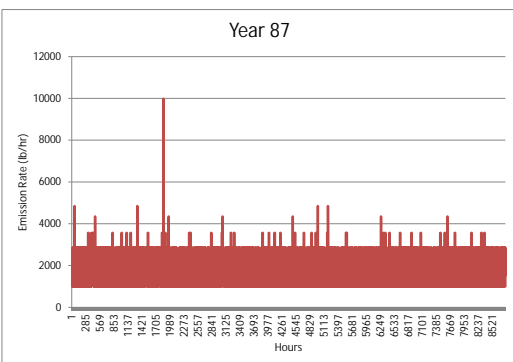
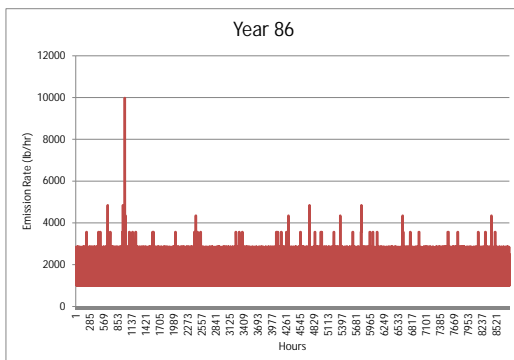
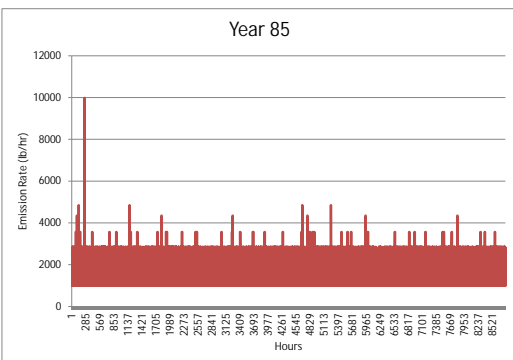
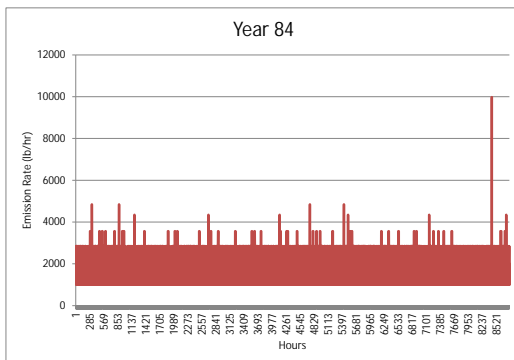
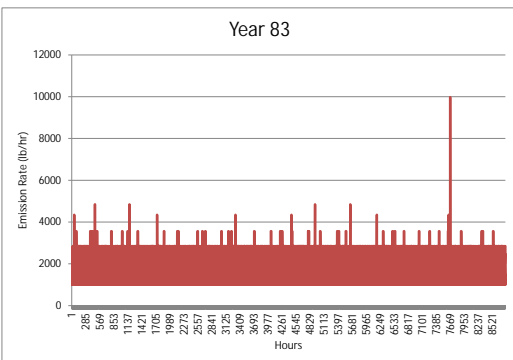
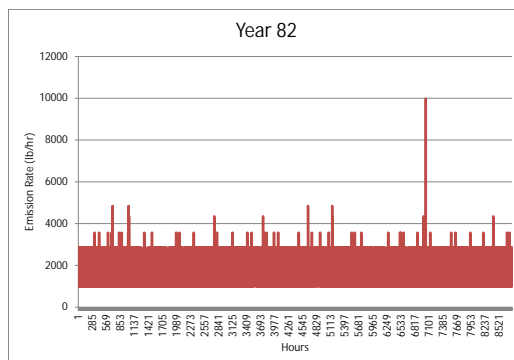
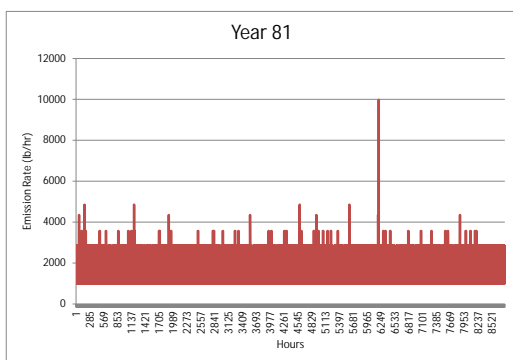
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



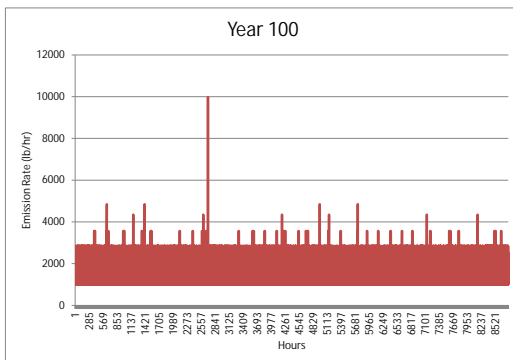
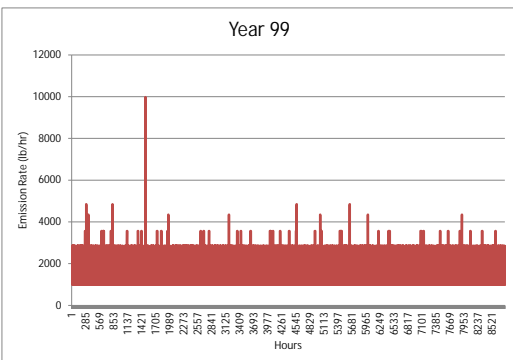
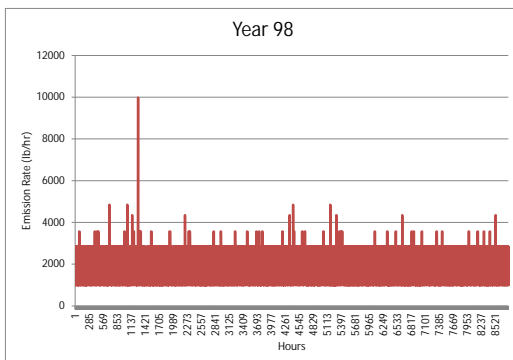
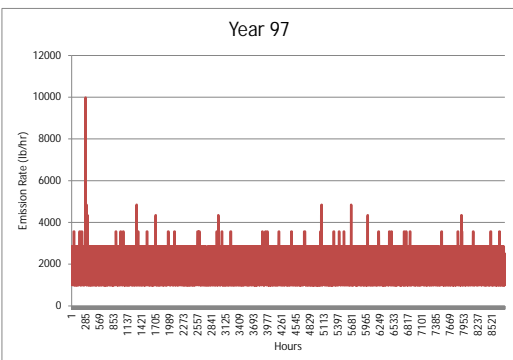
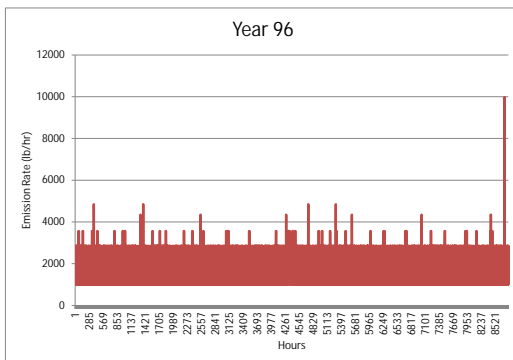
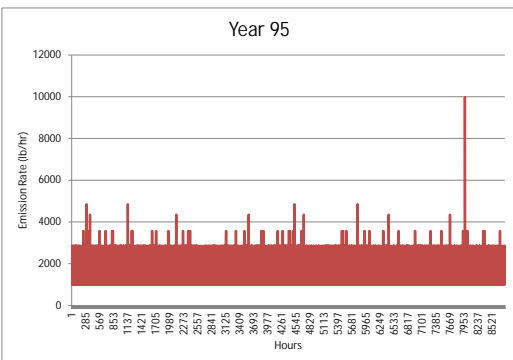
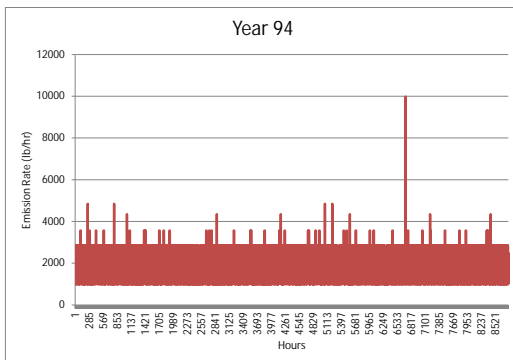
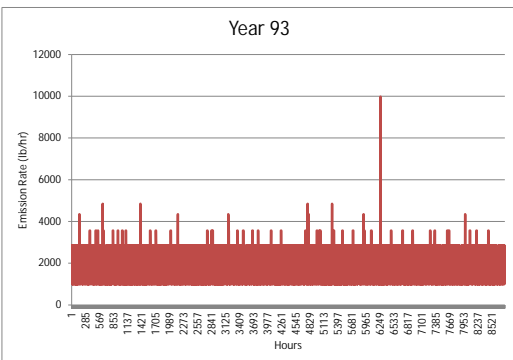
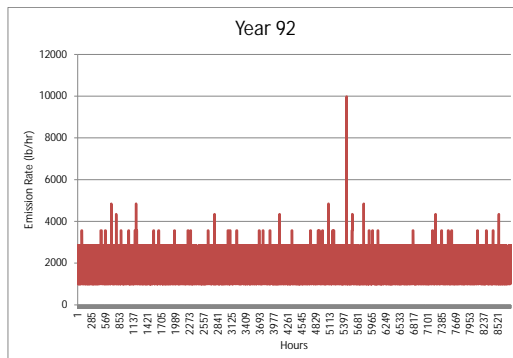
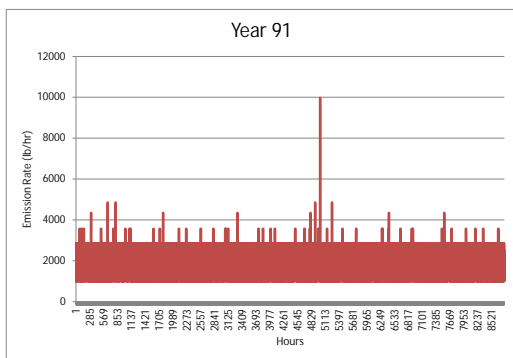
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



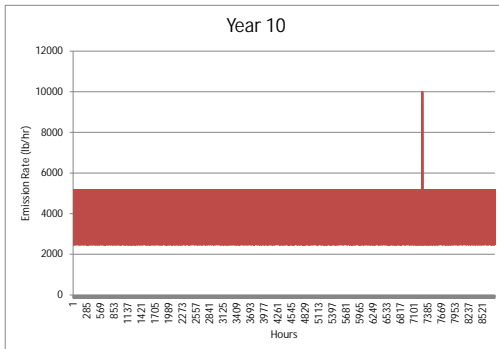
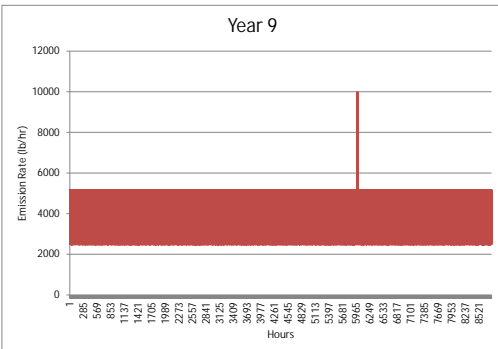
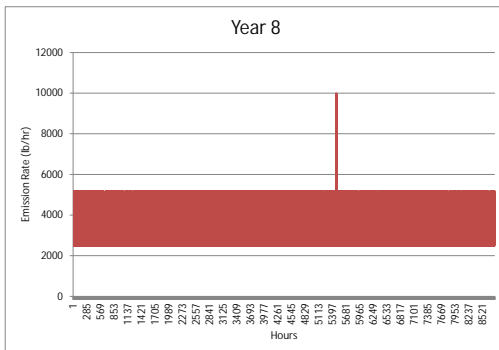
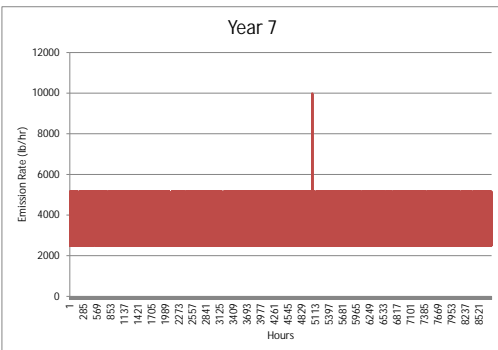
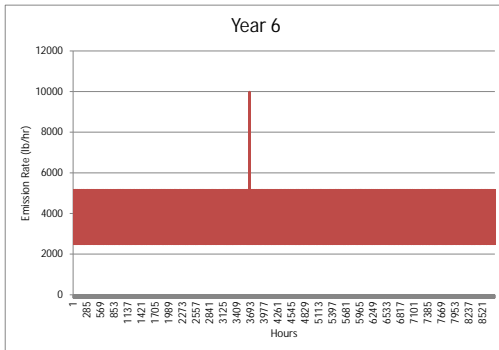
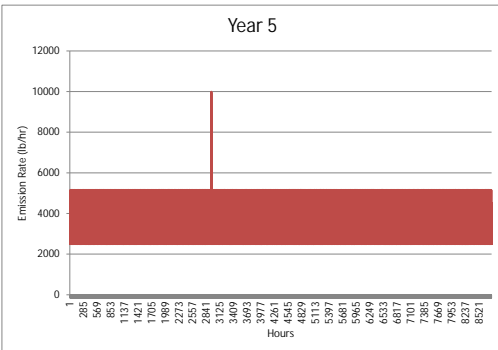
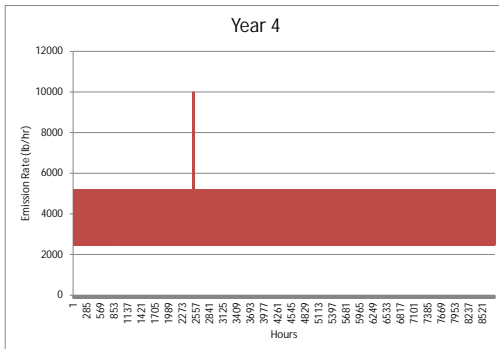
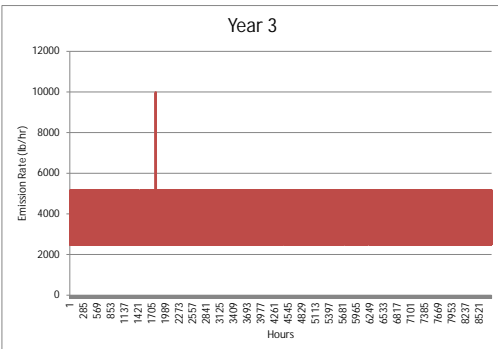
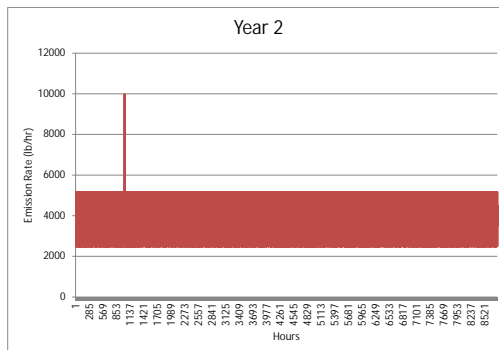
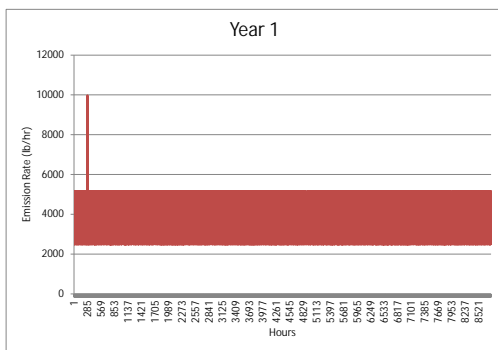
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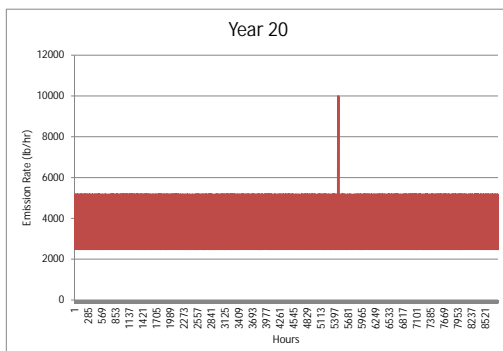
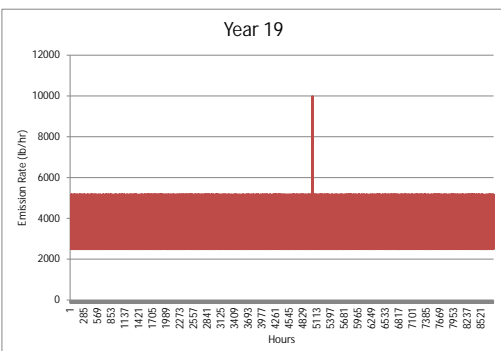
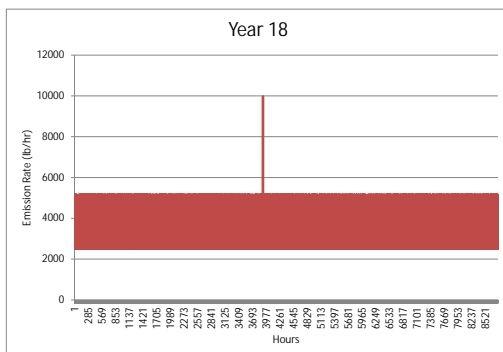
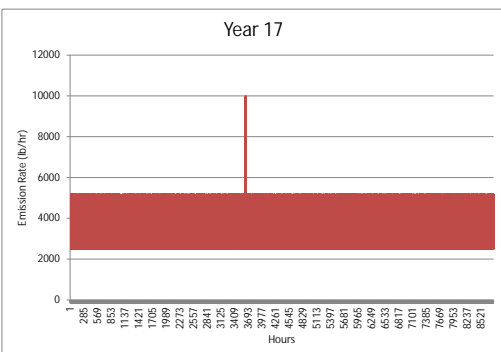
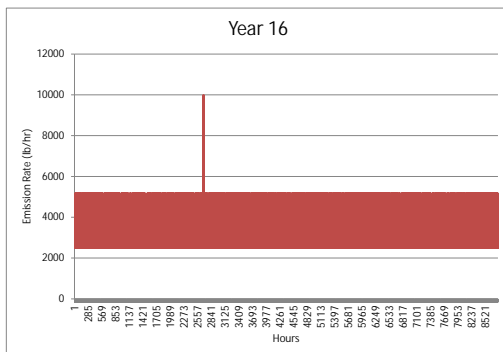
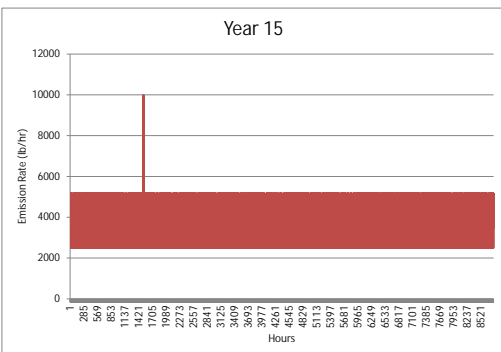
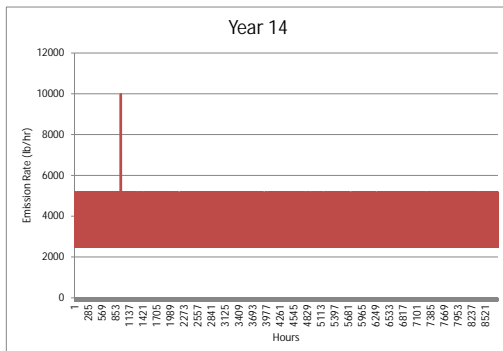
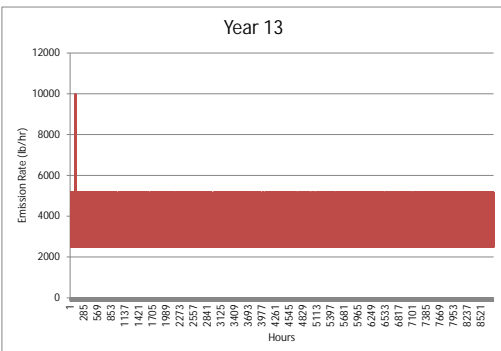
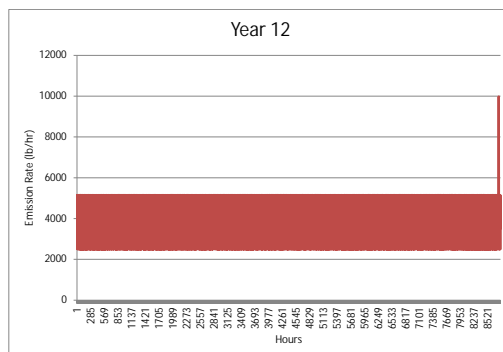
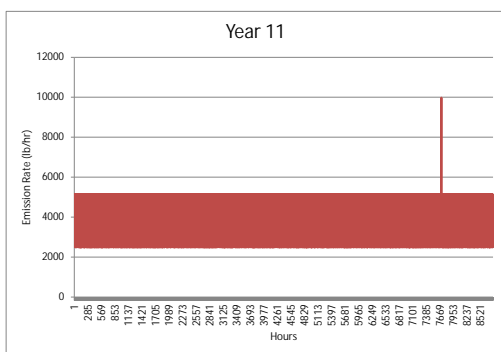
## Appendix C

### **Time Series Plots of 100 Years Simulated Emissions for Brandon Shores Case 2**

SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area

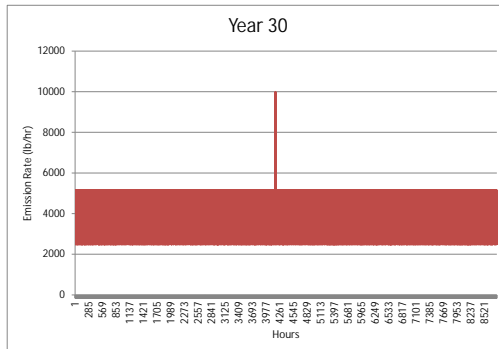
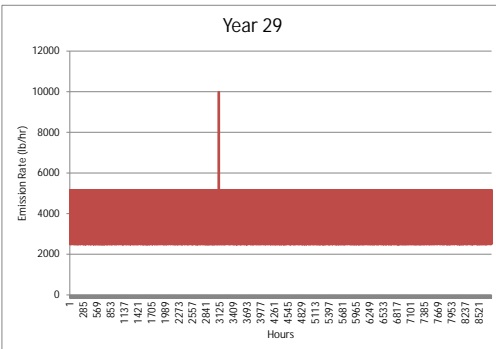
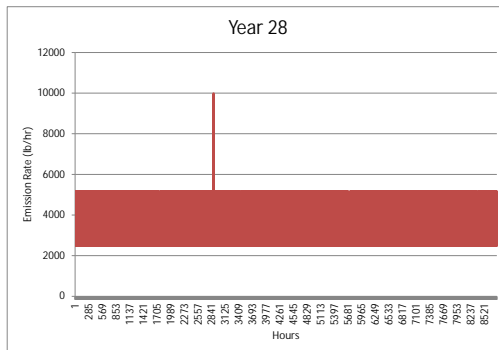
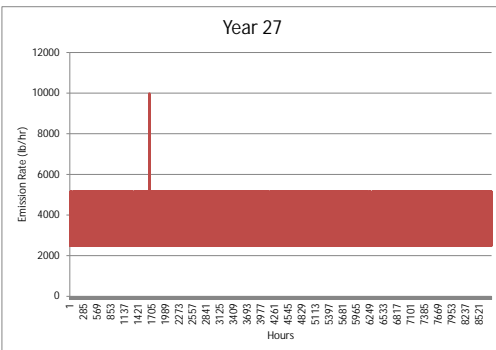
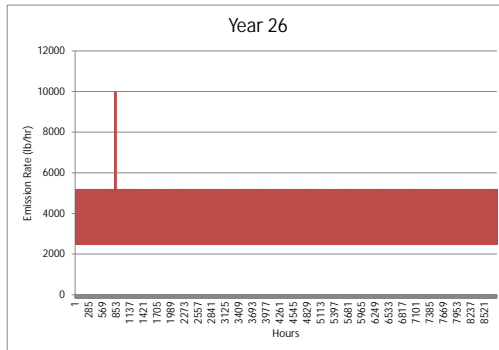
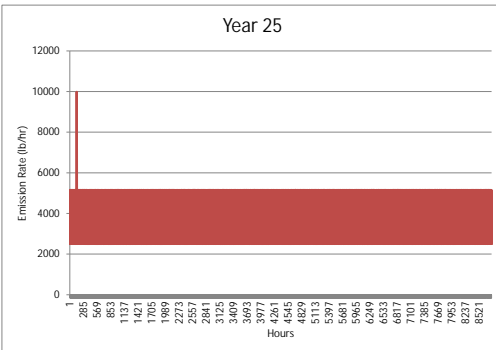
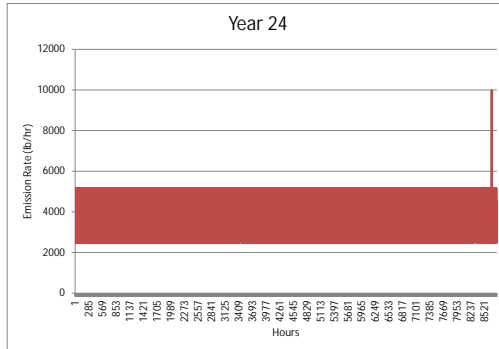
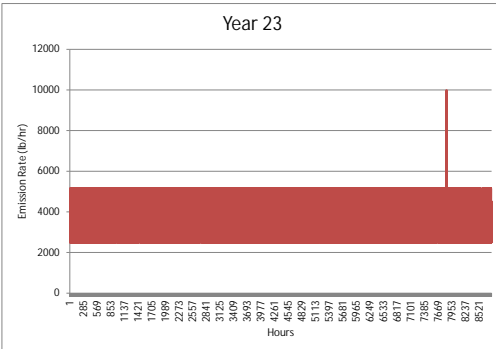
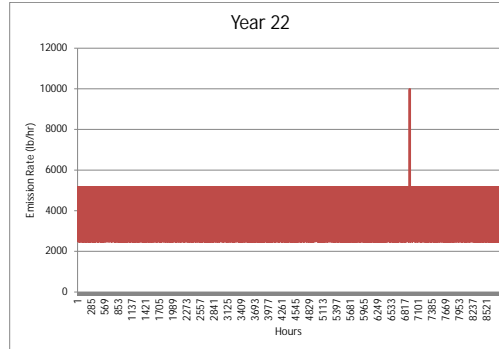
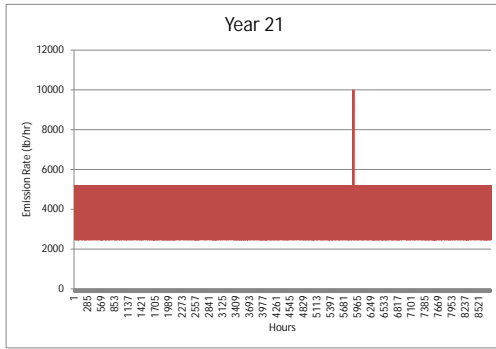


SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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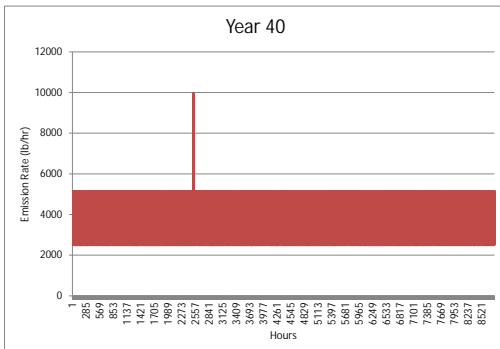
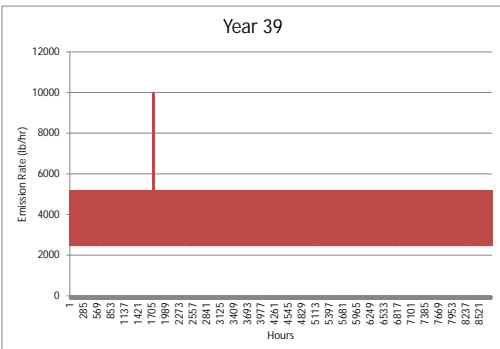
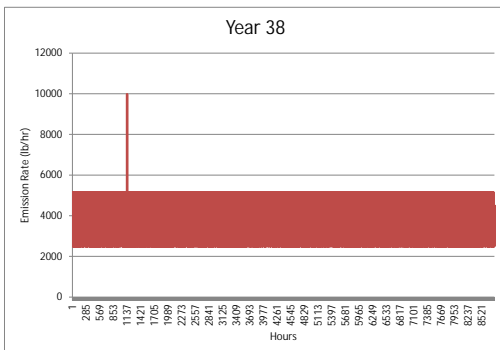
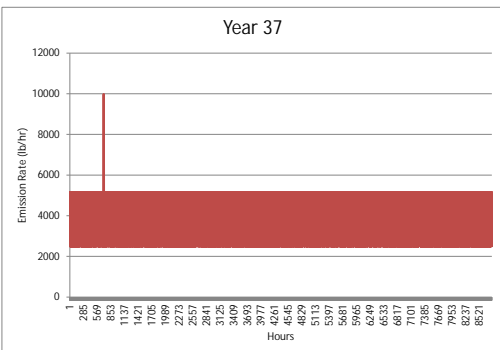
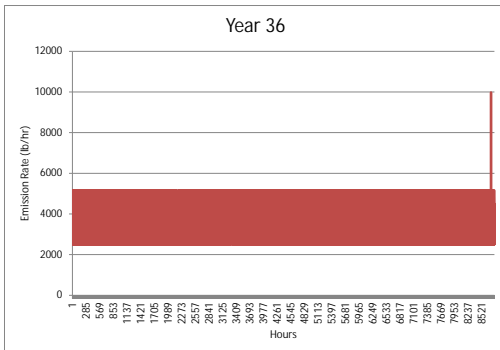
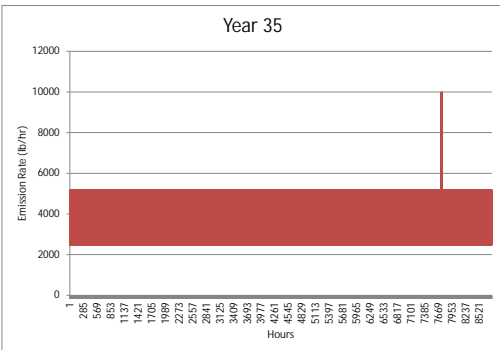
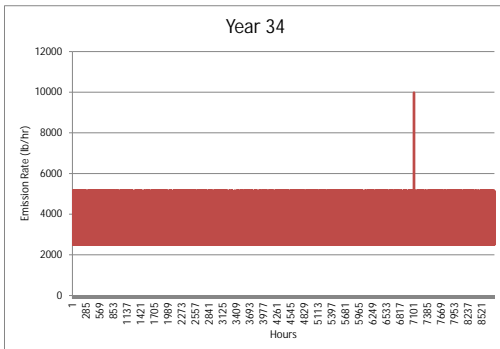
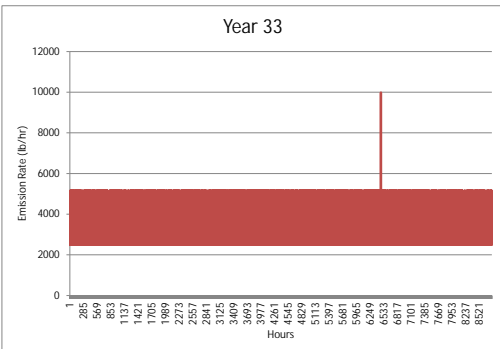
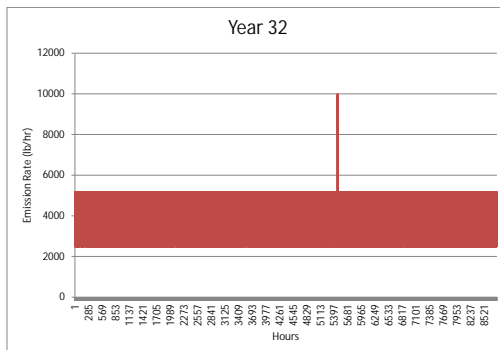
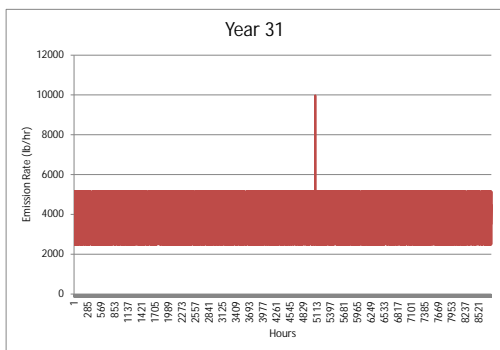




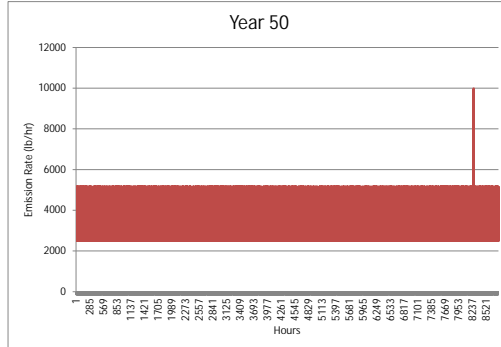
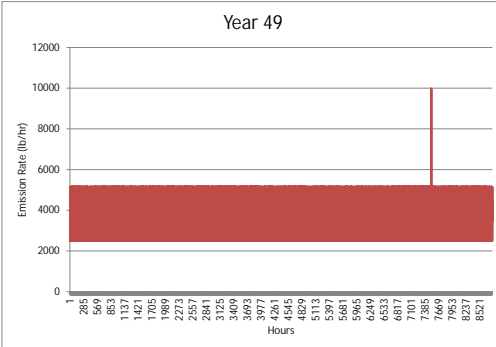
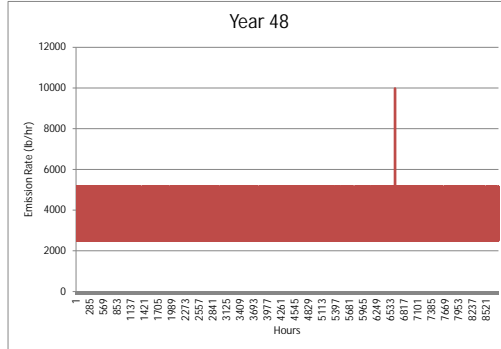
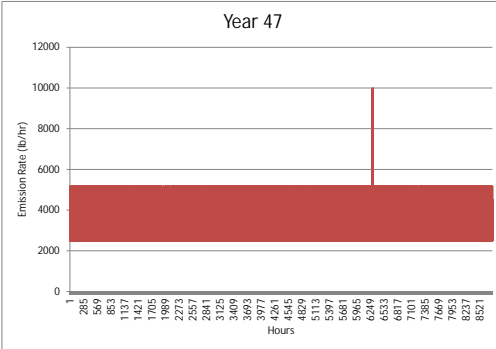
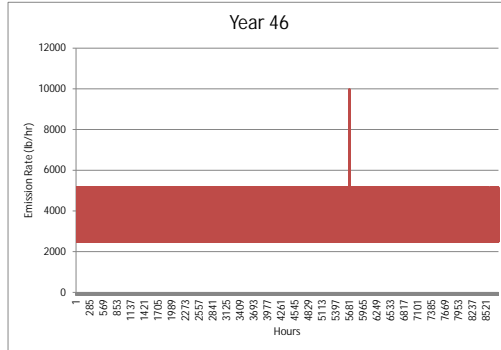
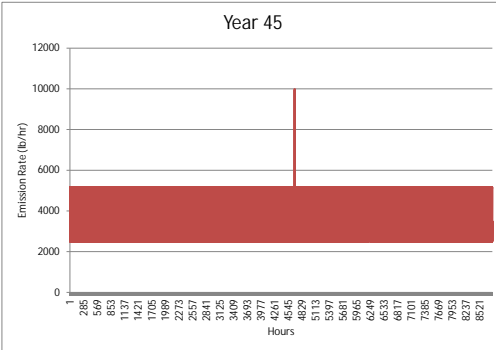
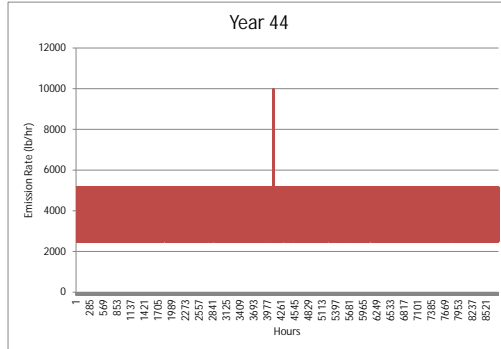
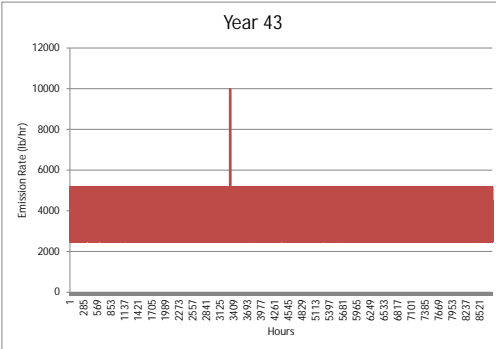
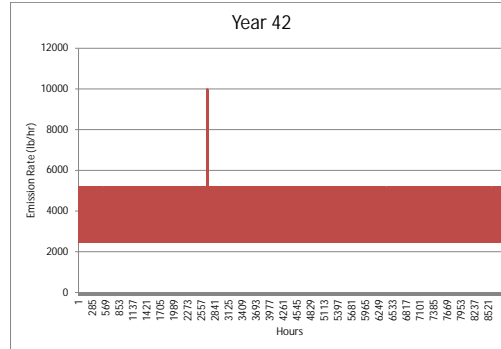
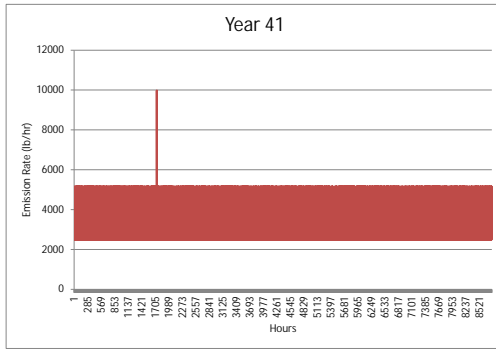
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



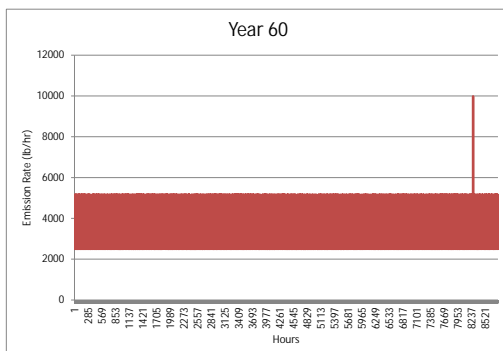
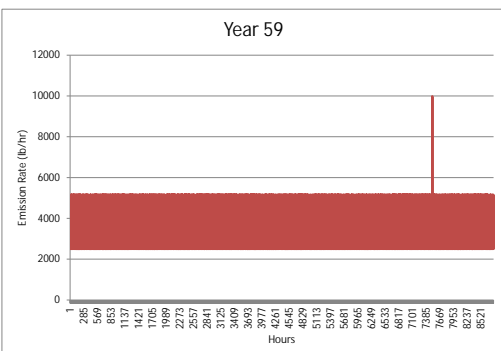
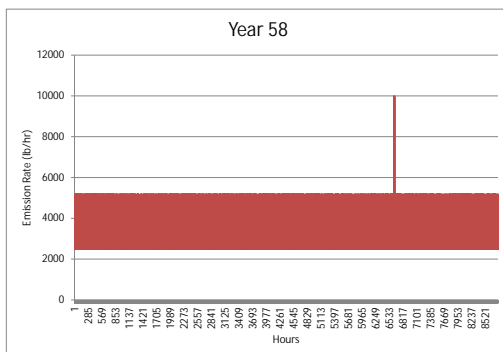
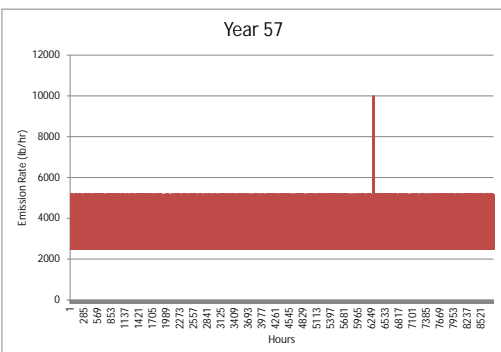
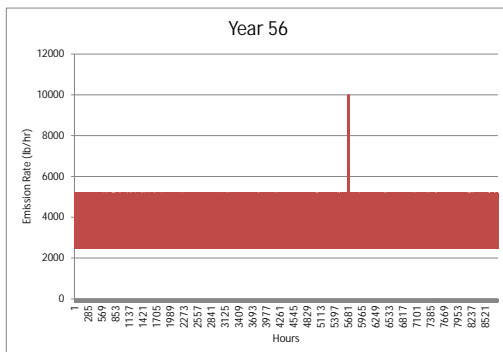
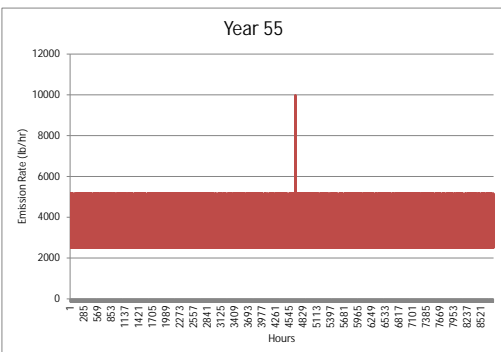
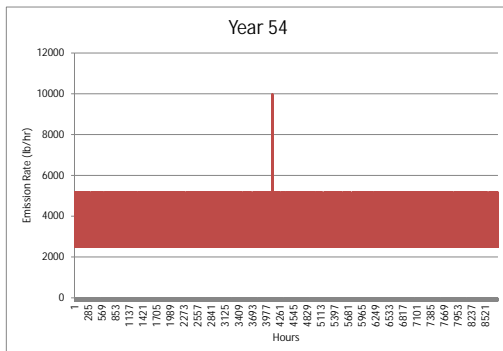
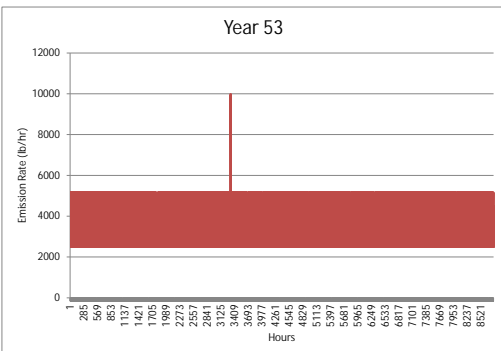
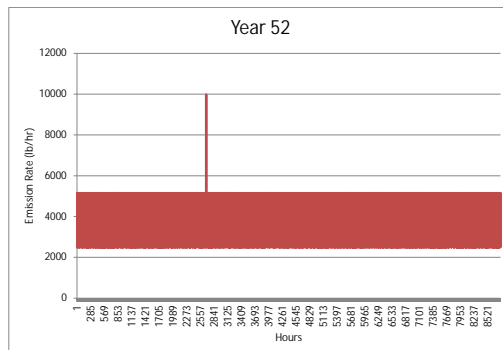
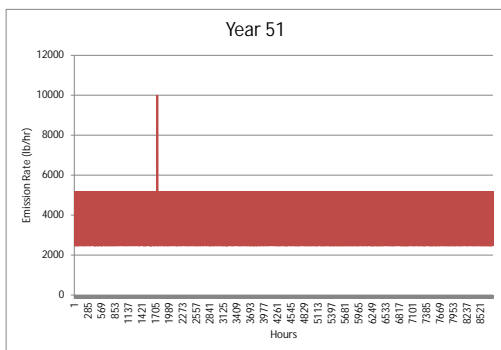
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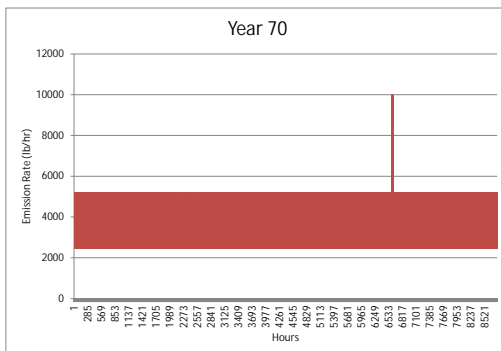
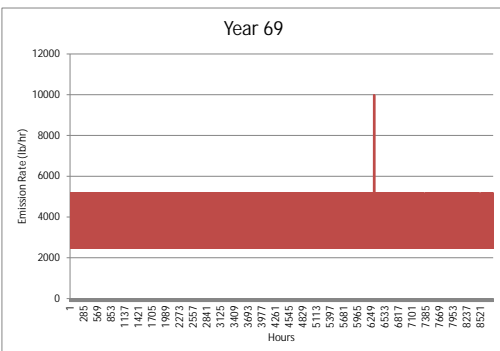
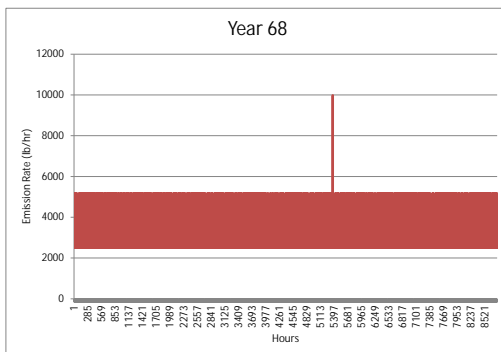
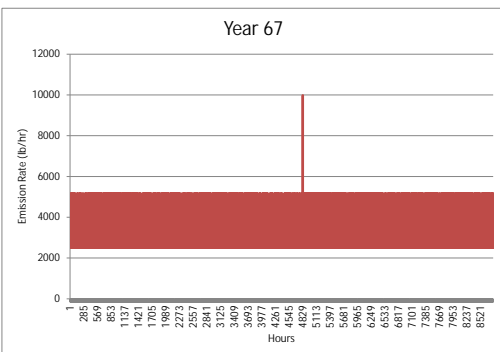
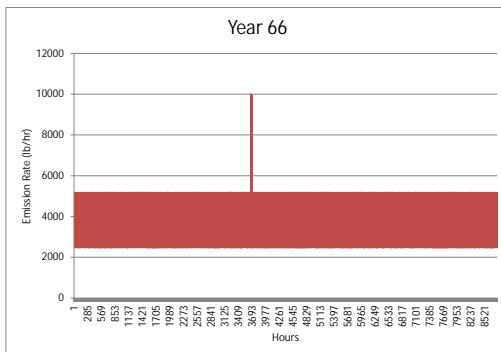
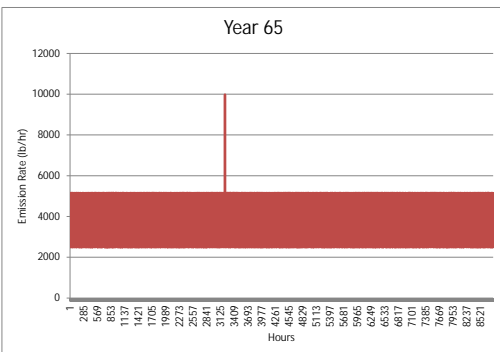
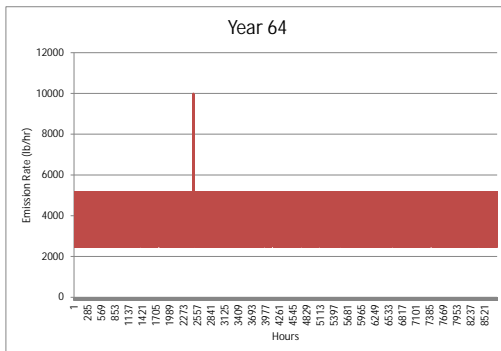
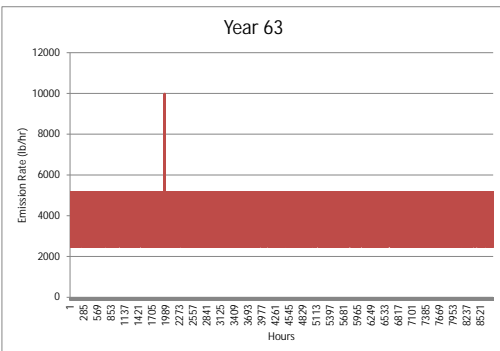
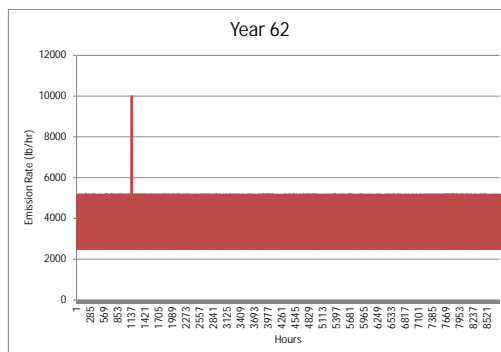
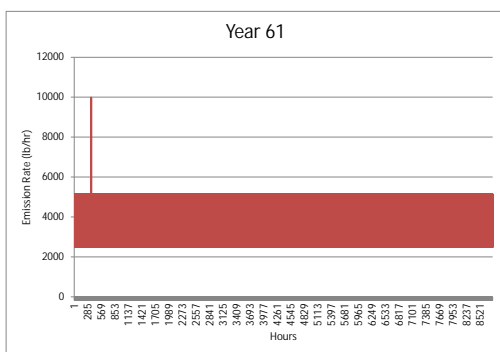
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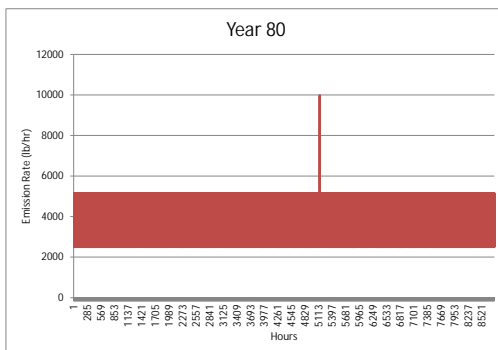
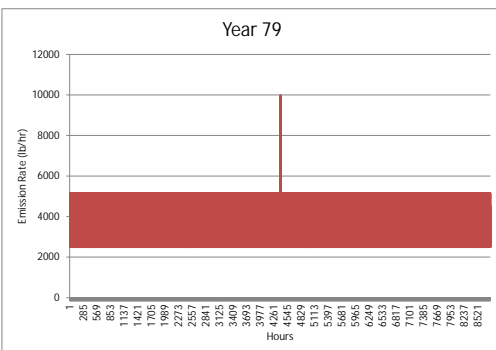
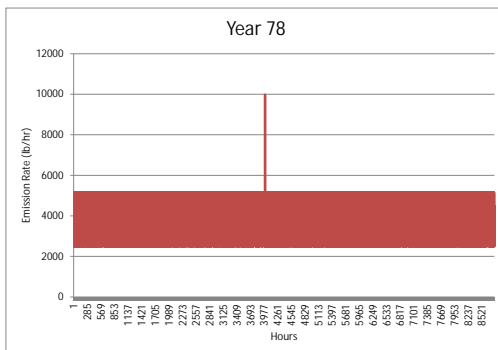
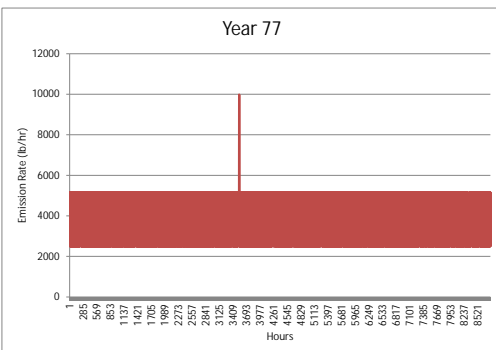
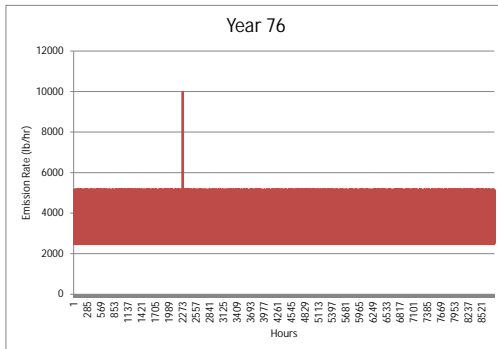
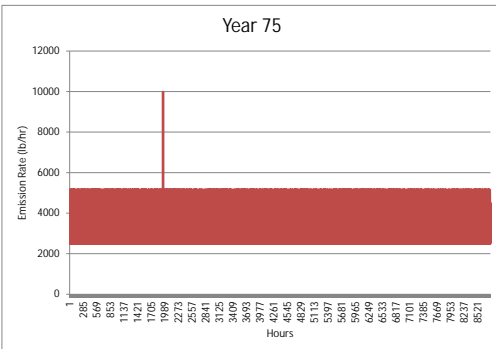
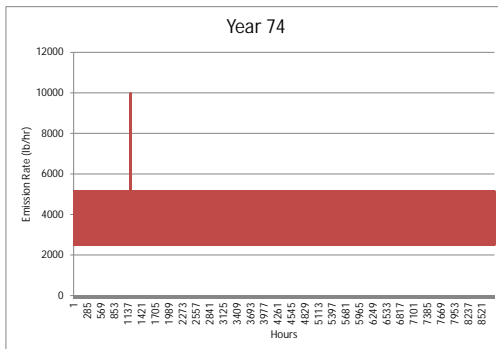
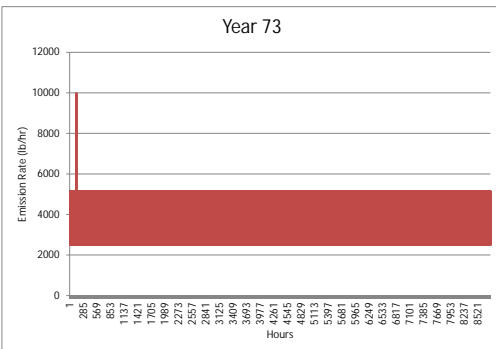
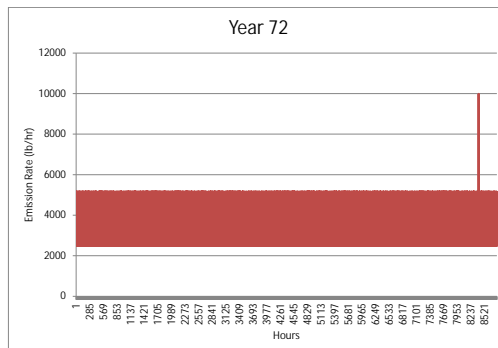
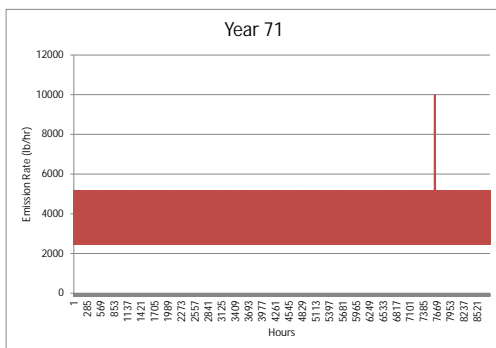
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



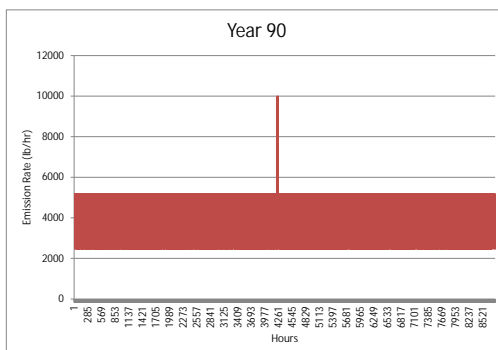
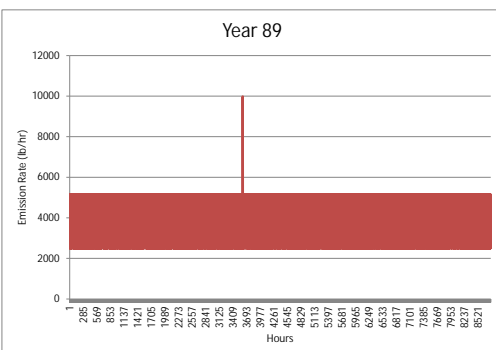
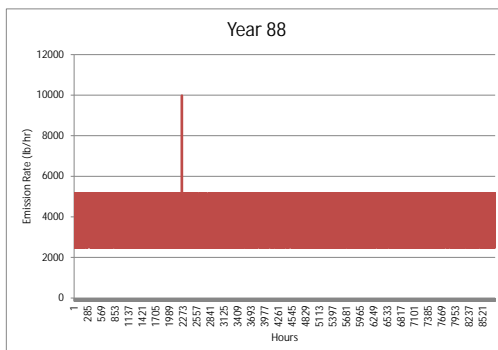
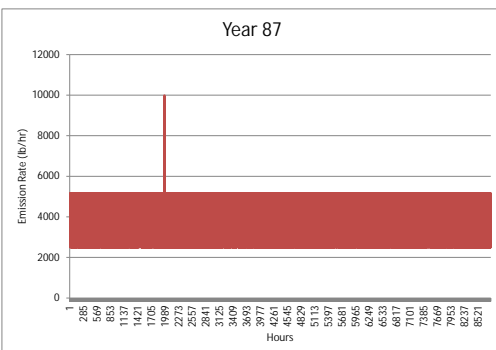
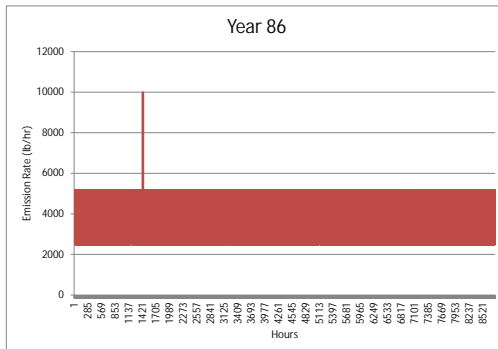
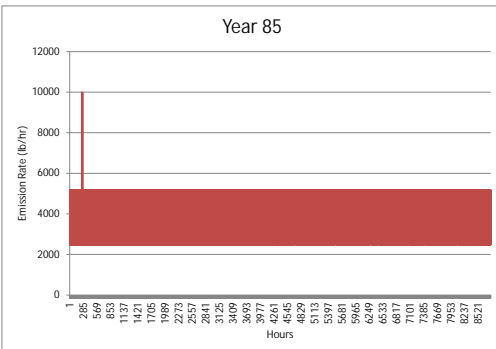
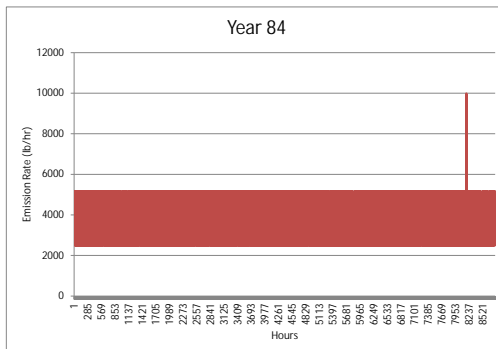
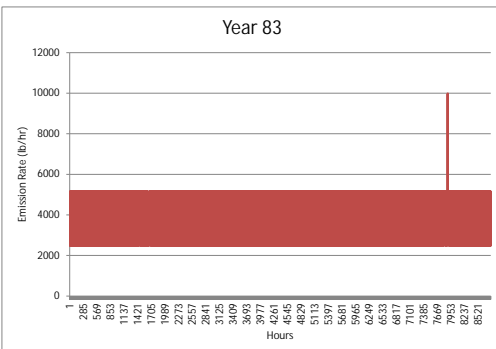
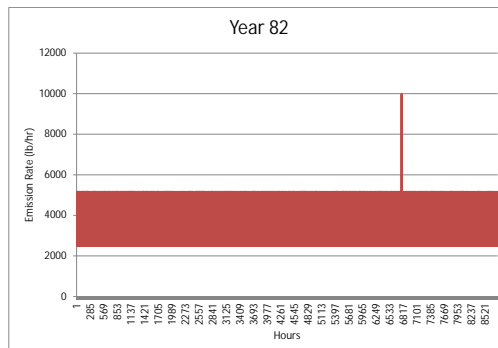
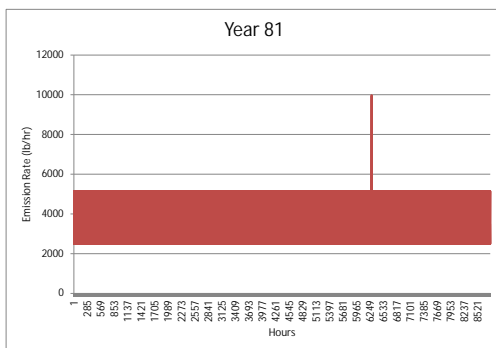
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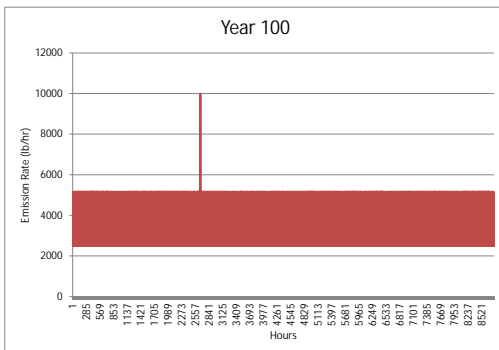
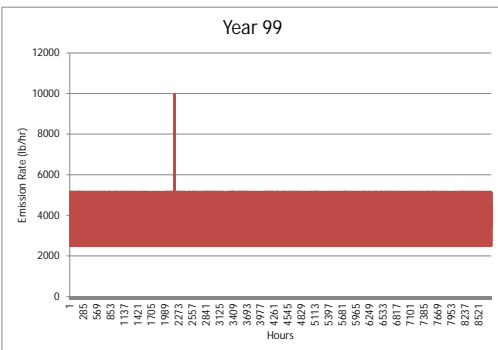
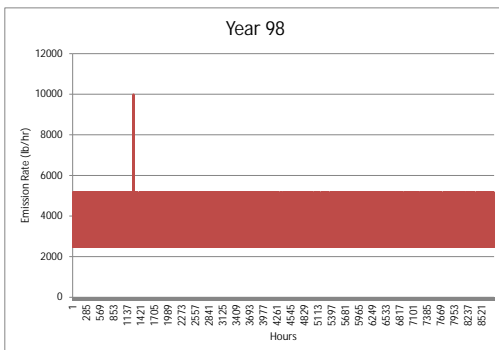
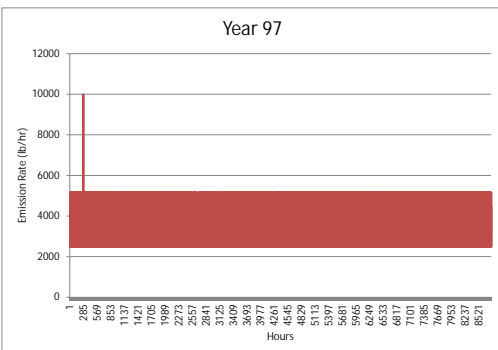
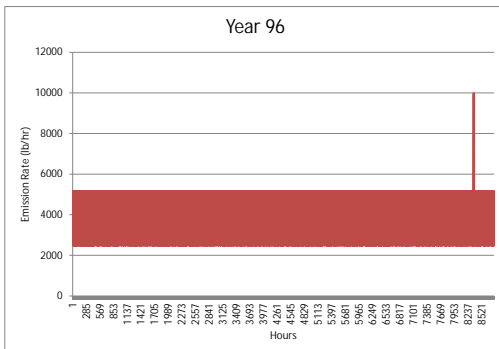
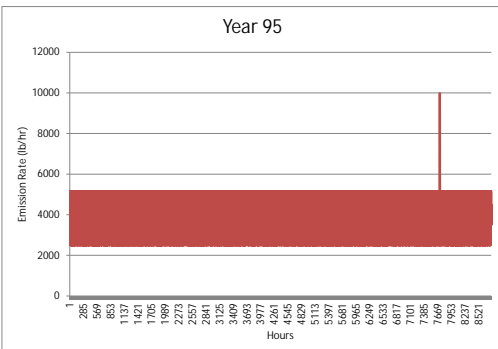
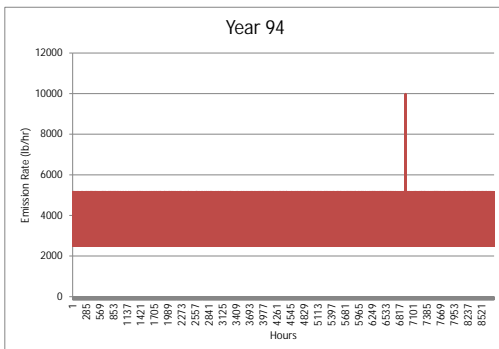
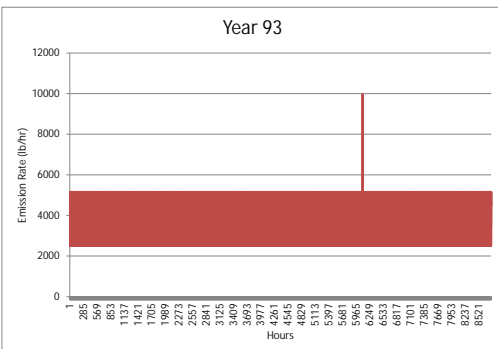
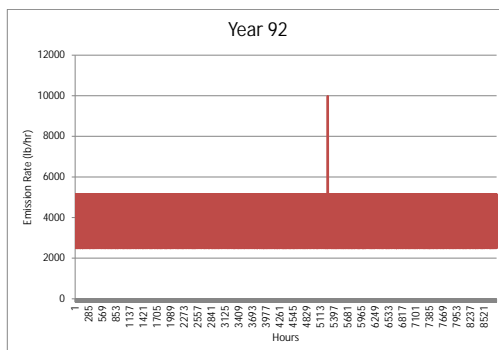
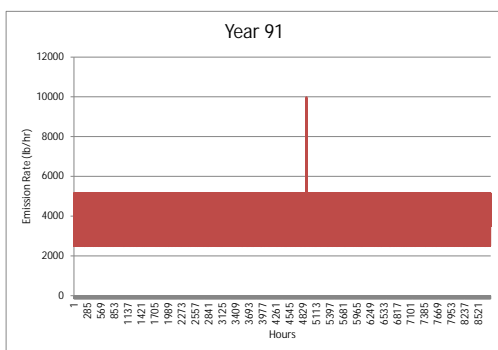
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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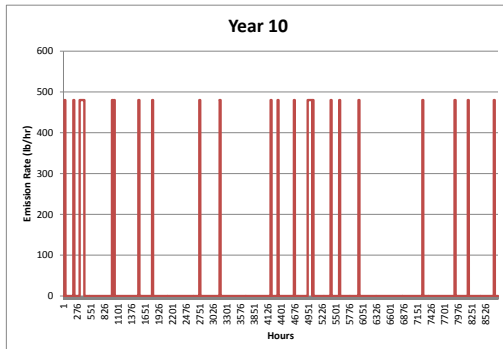
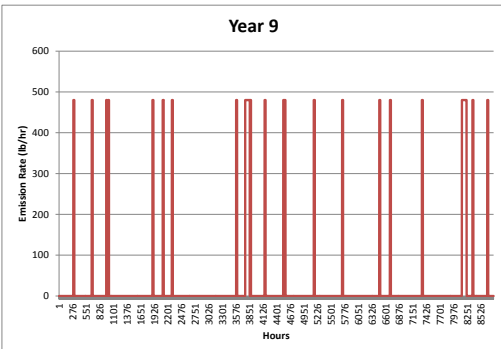
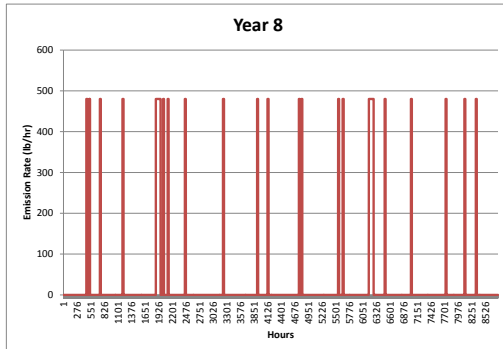
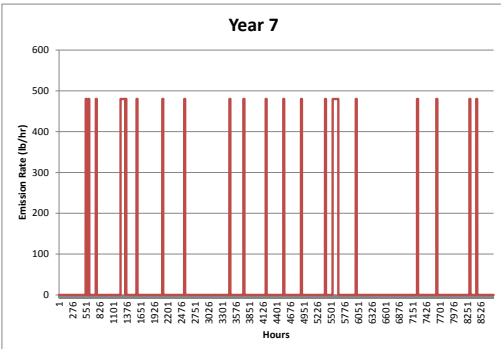
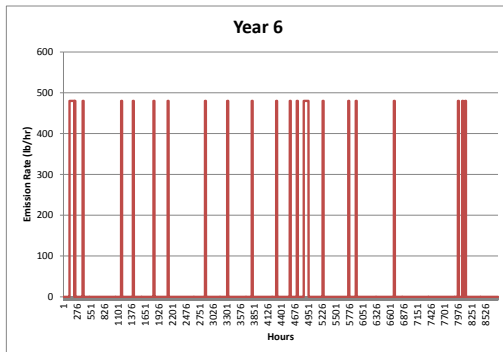
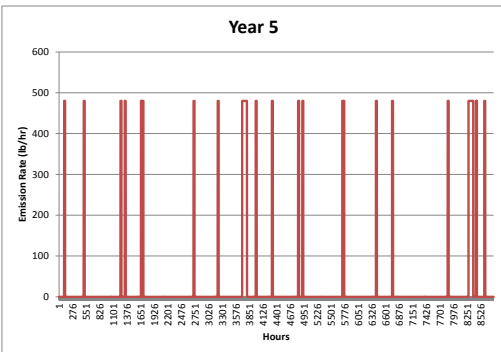
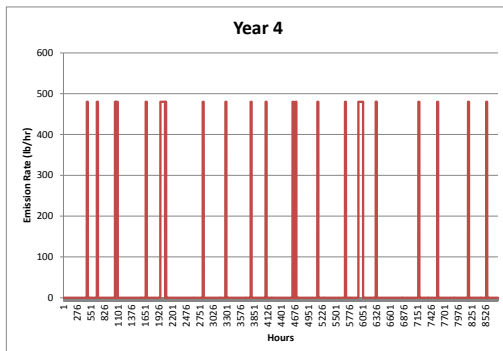
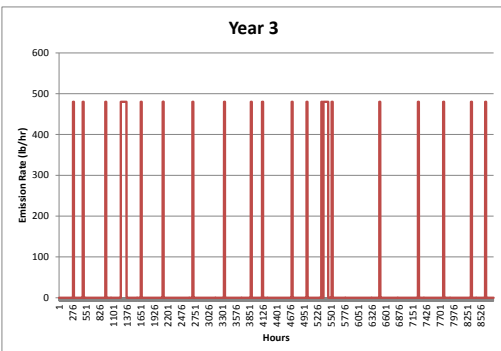
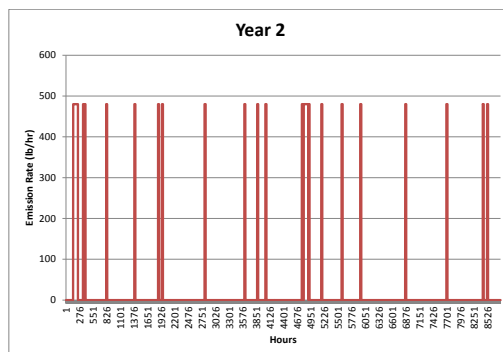
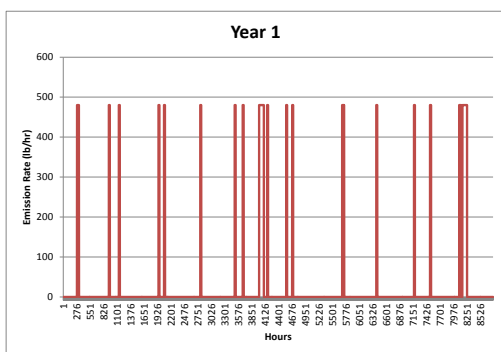




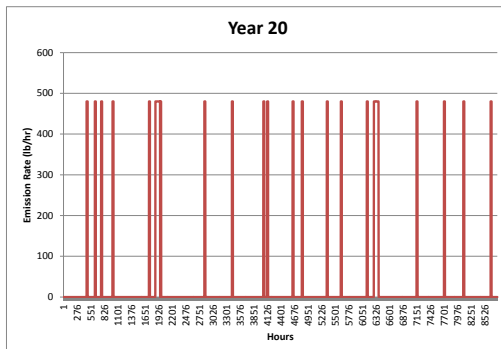
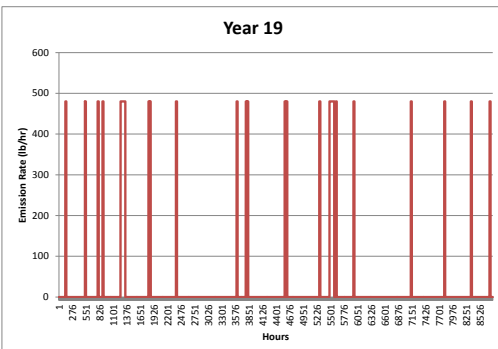
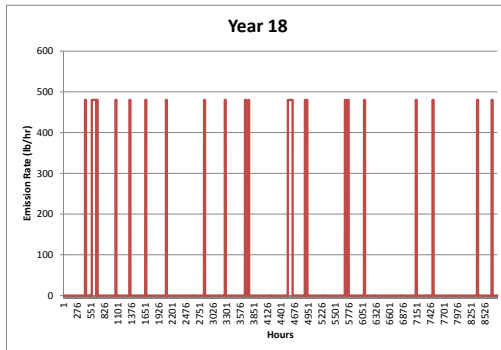
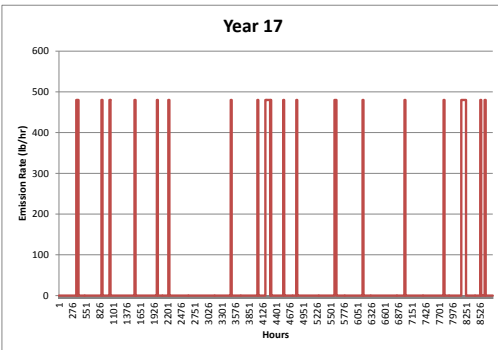
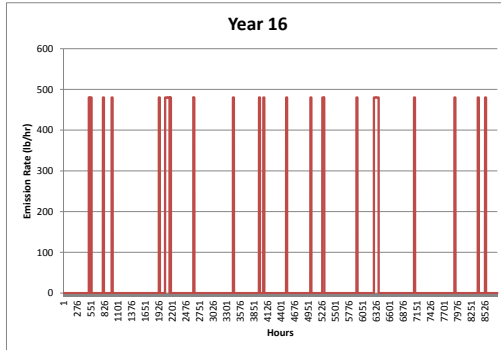
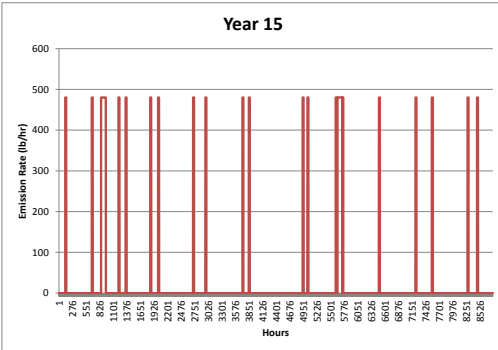
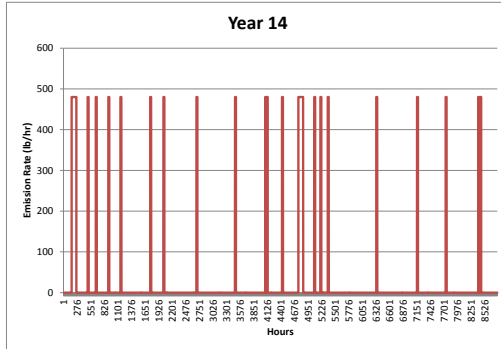
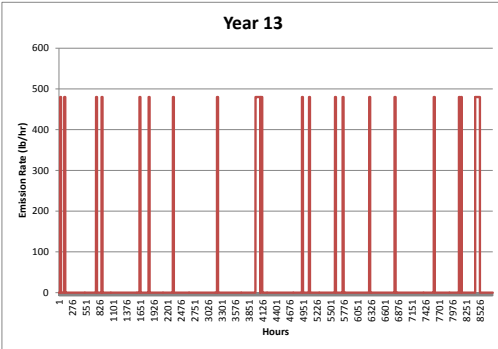
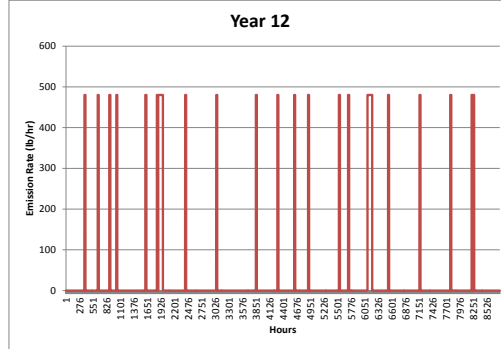
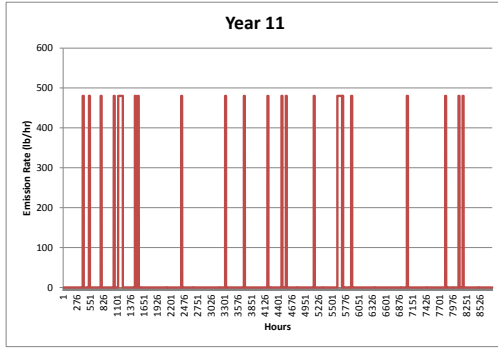
## Appendix D

### **Time Series Plots of 100 Years Simulated Emissions for Wagner Unit 1 Case 1**

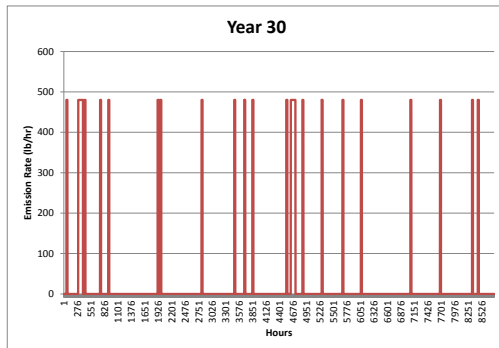
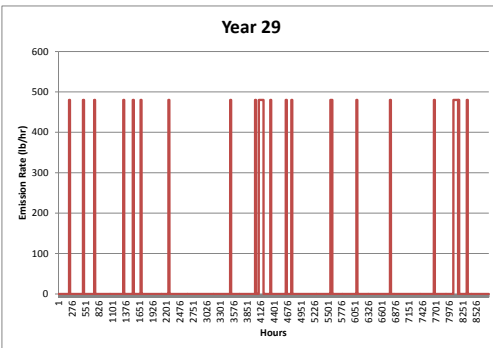
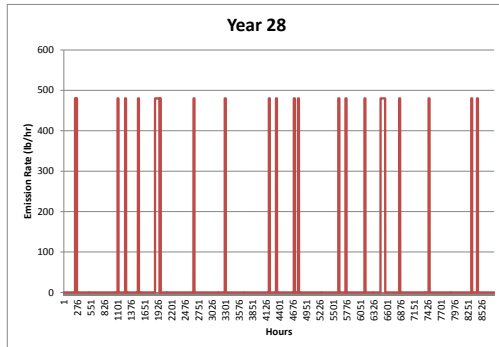
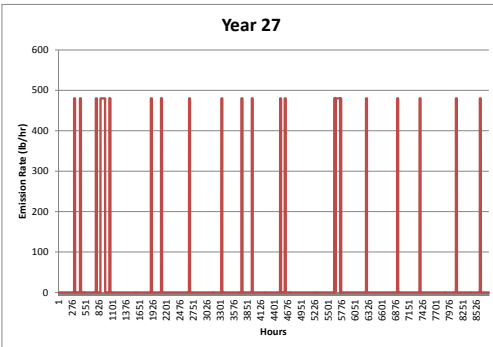
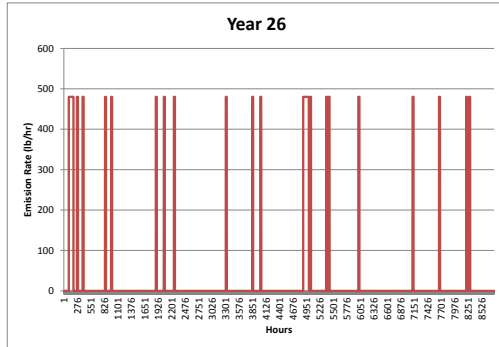
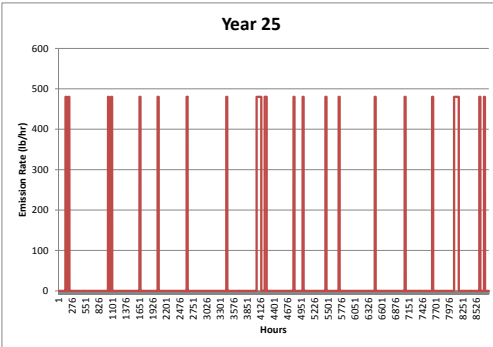
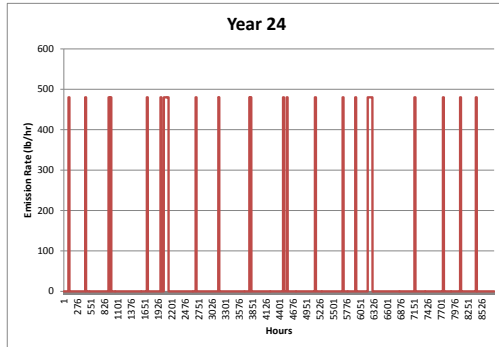
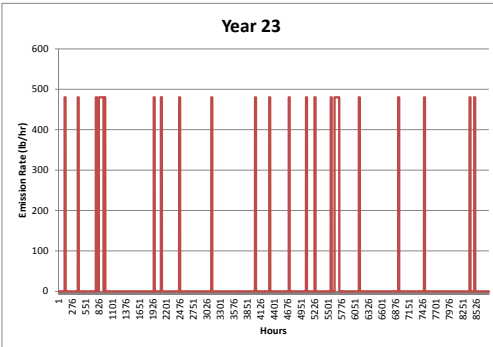
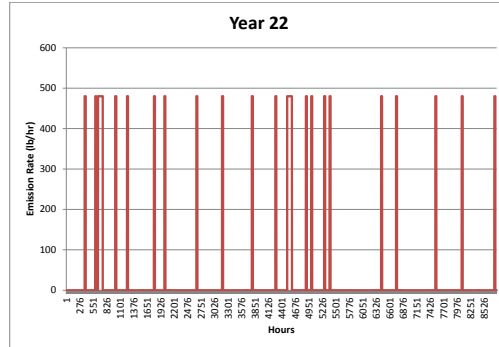
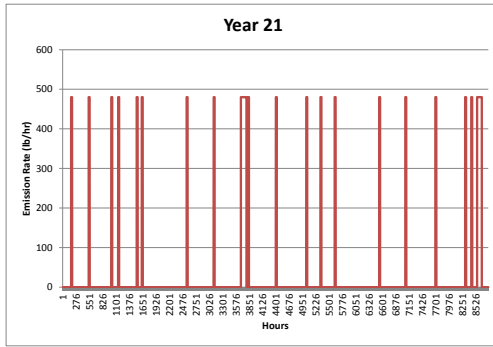
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



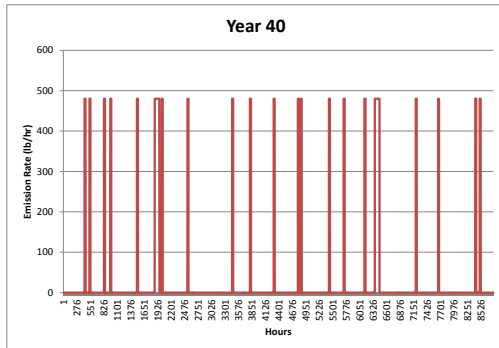
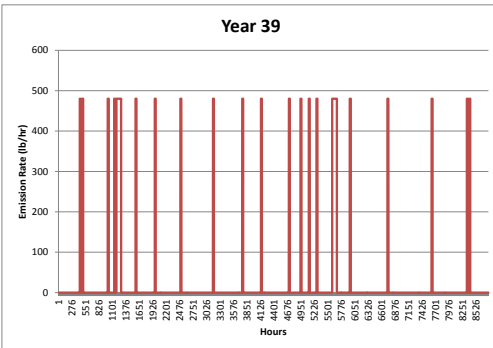
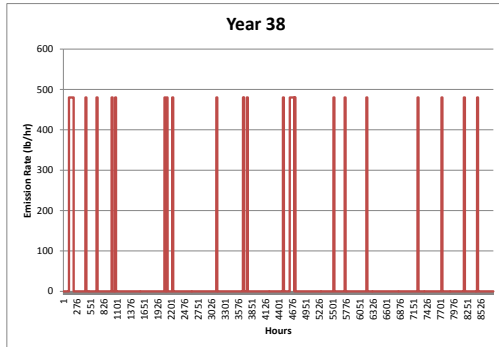
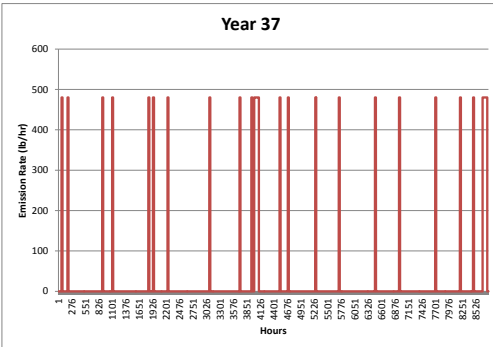
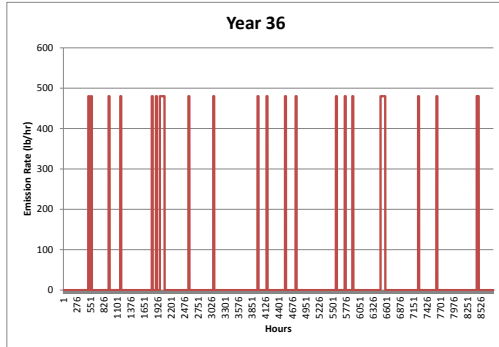
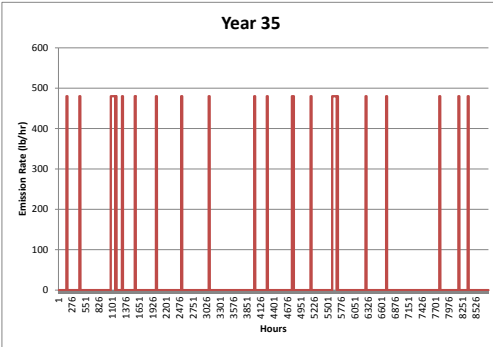
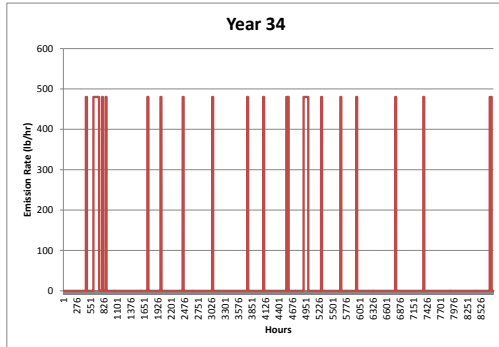
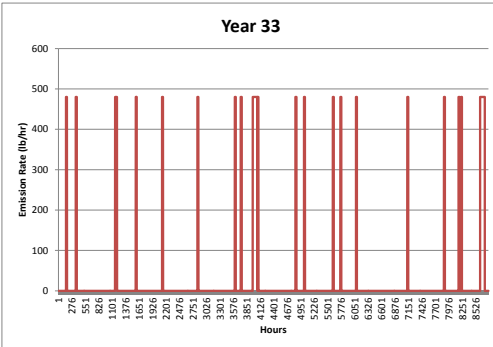
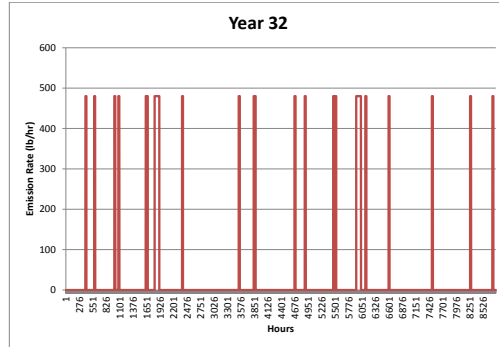
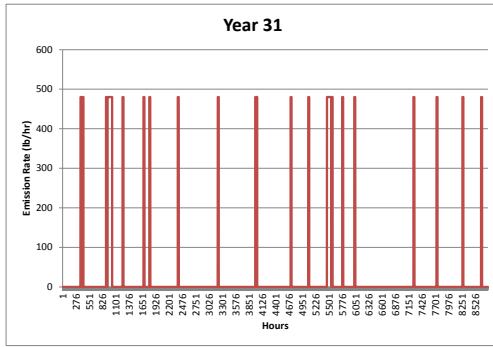
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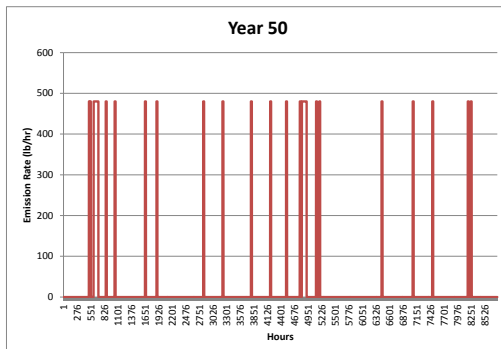
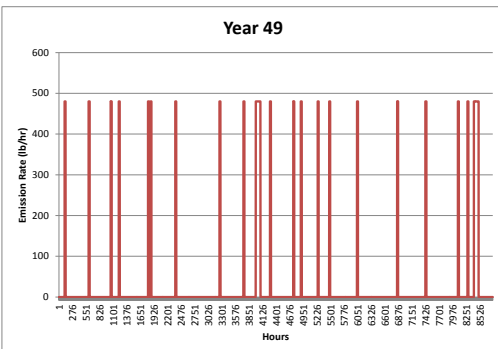
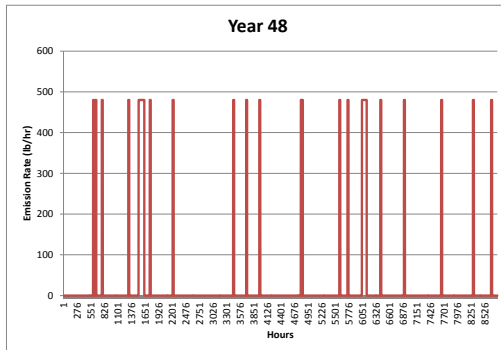
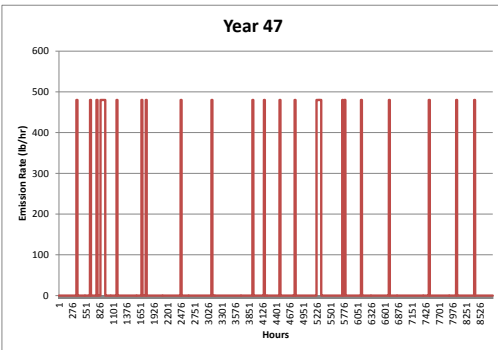
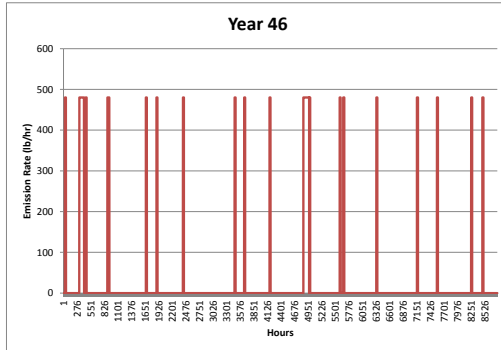
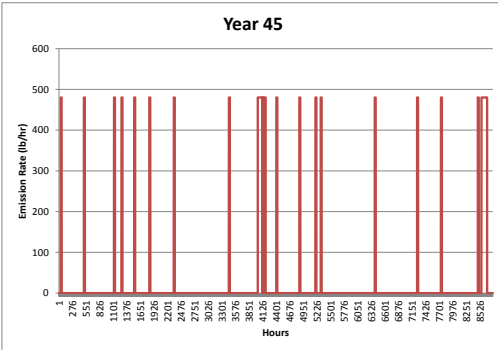
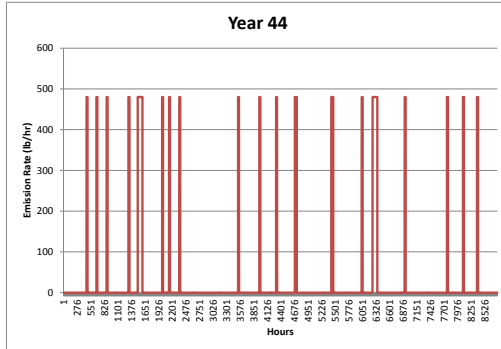
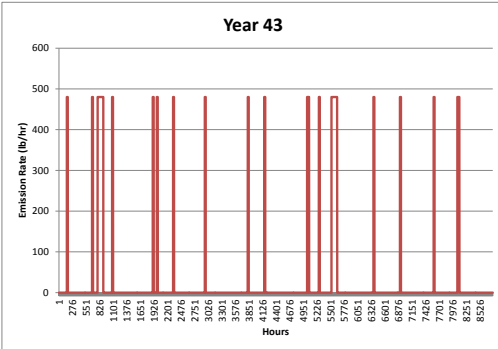
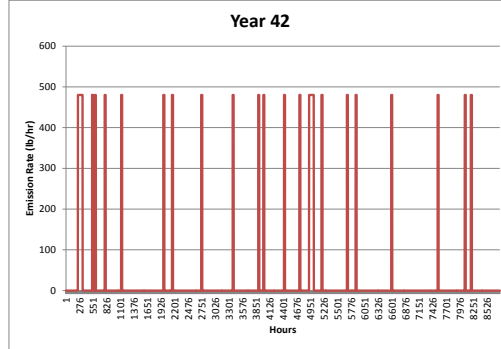
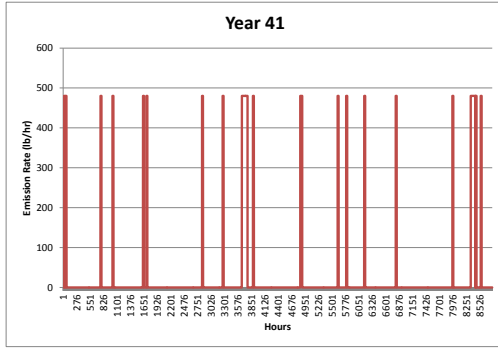
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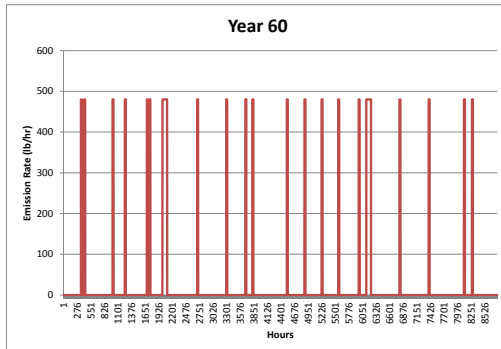
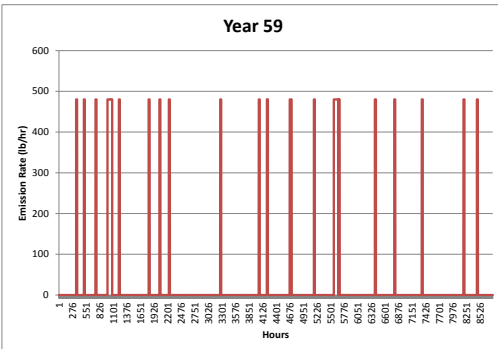
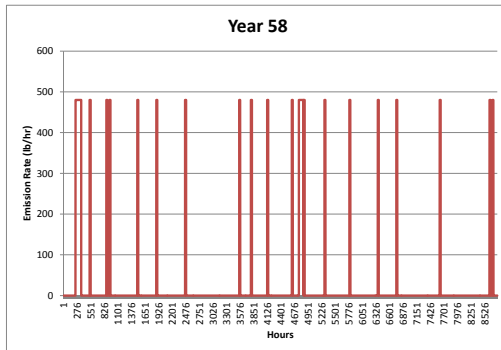
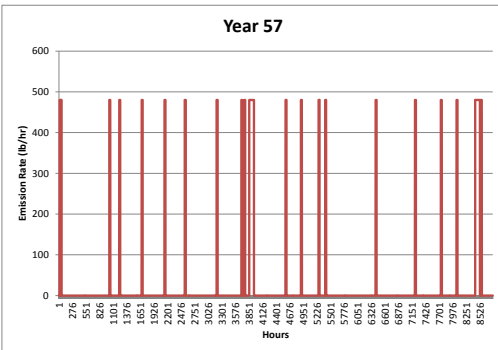
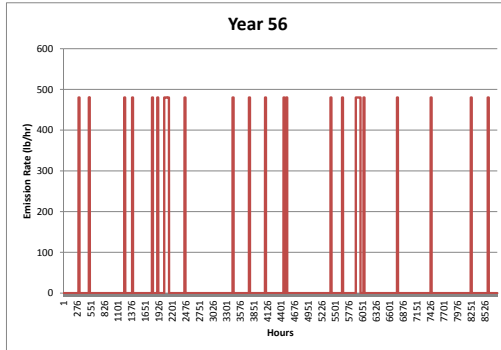
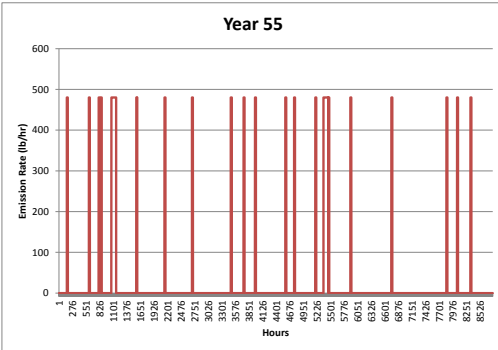
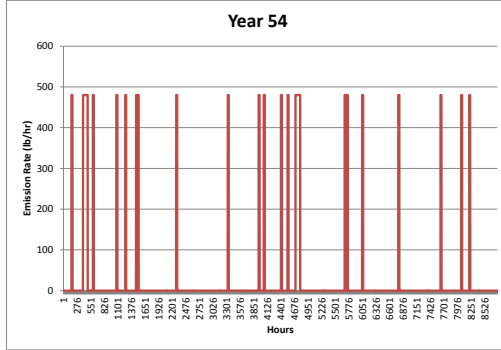
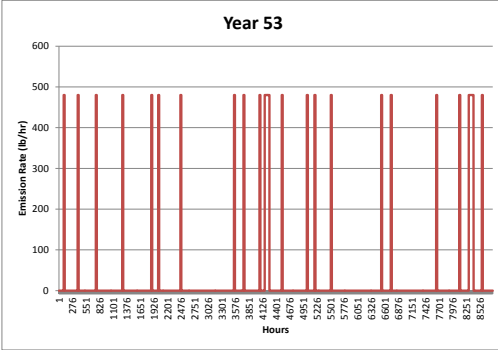
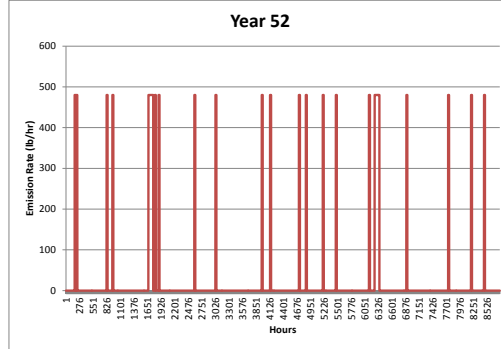
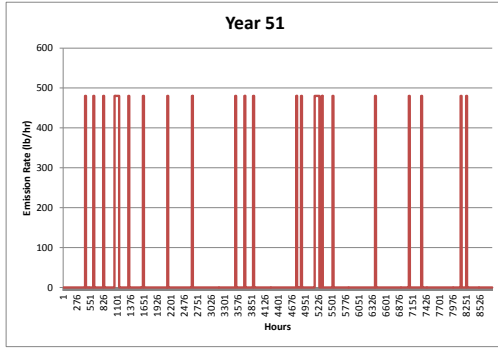
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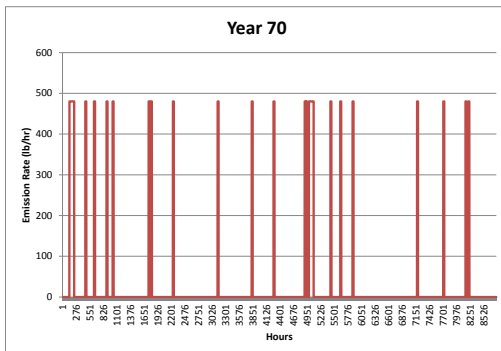
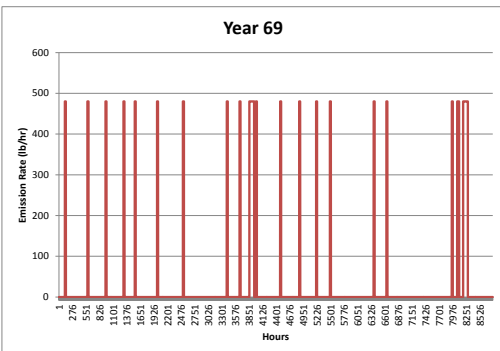
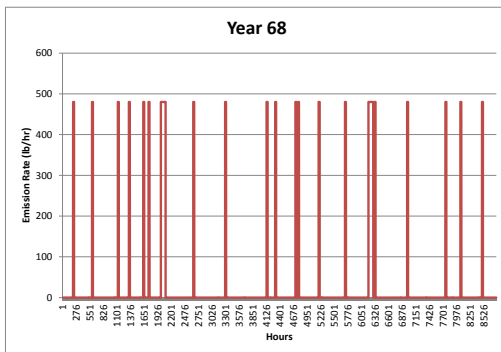
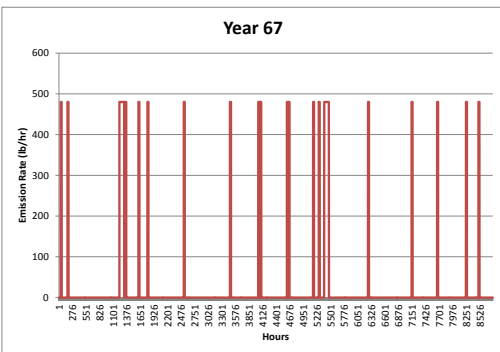
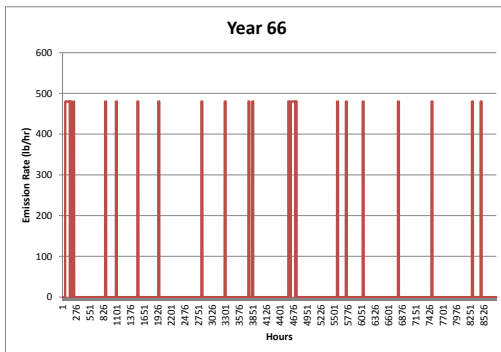
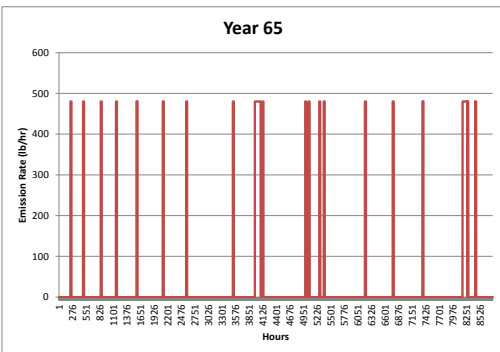
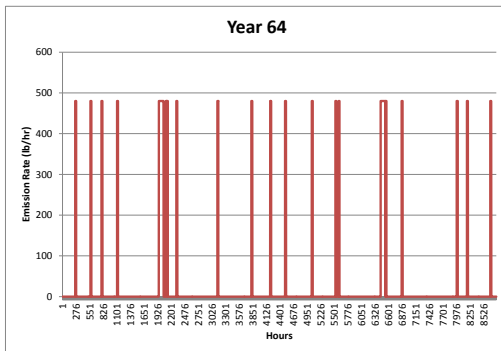
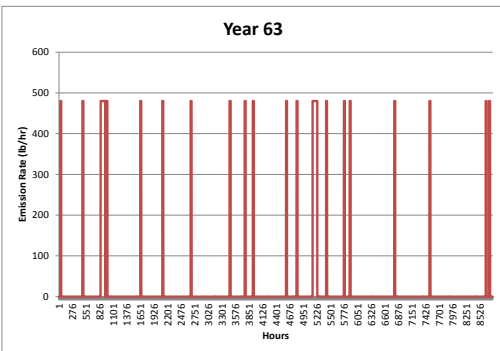
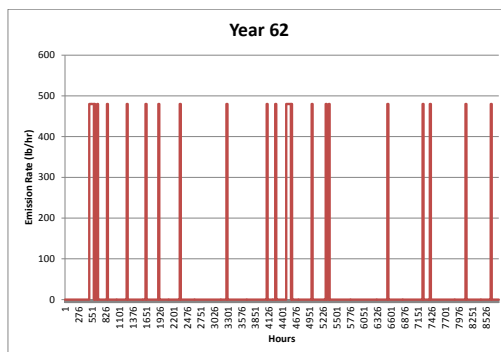
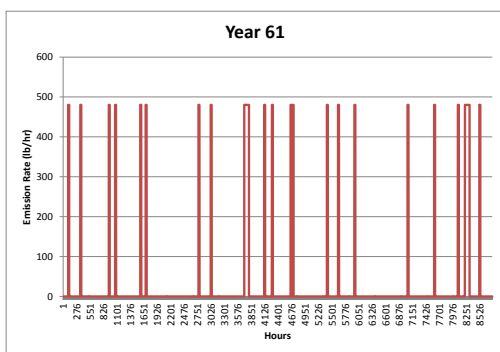
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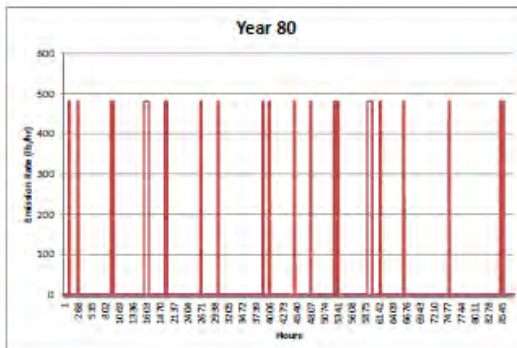
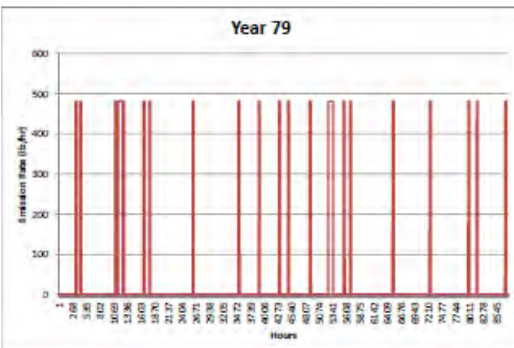
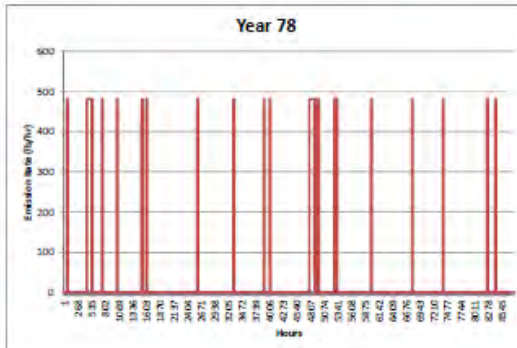
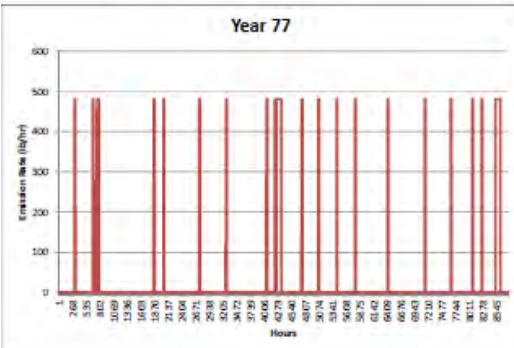
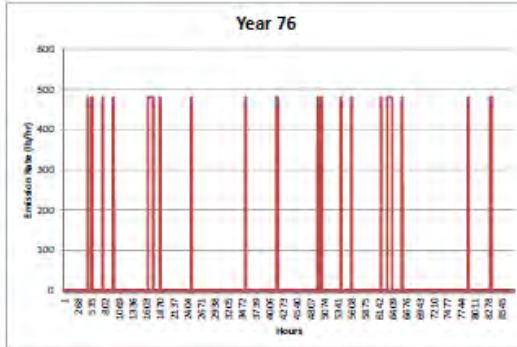
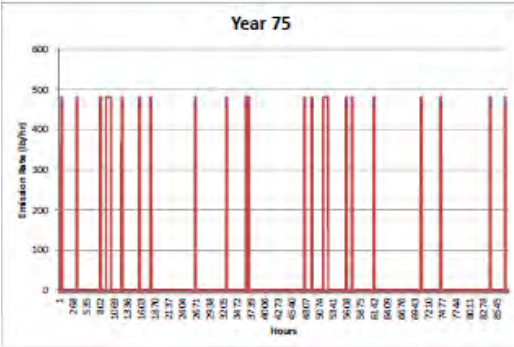
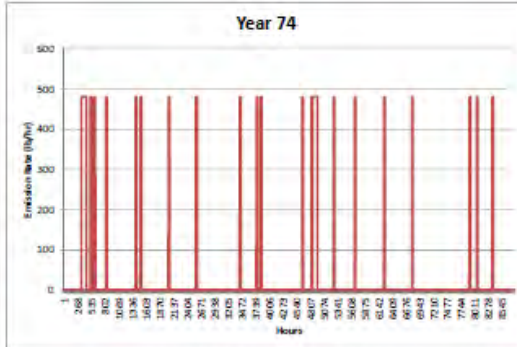
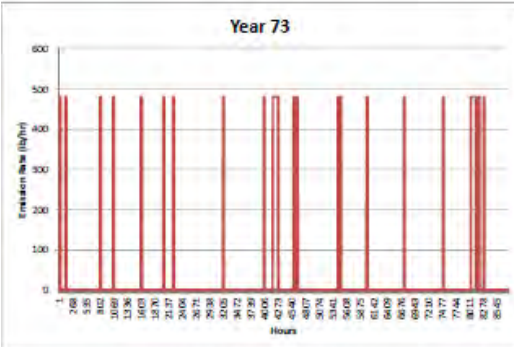
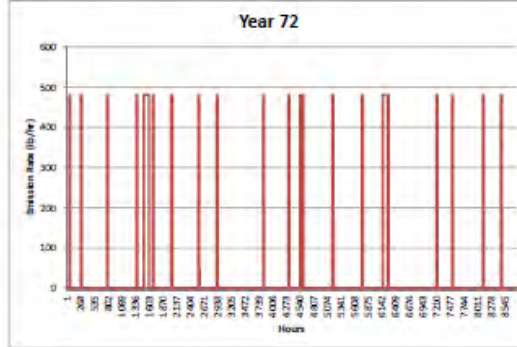
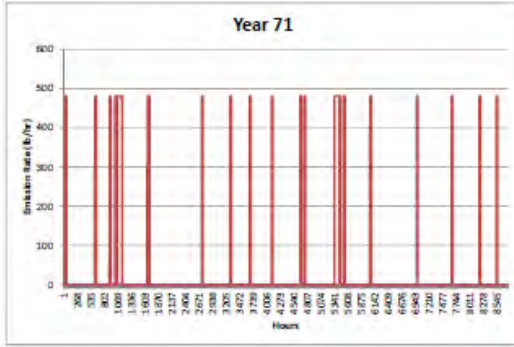


SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area

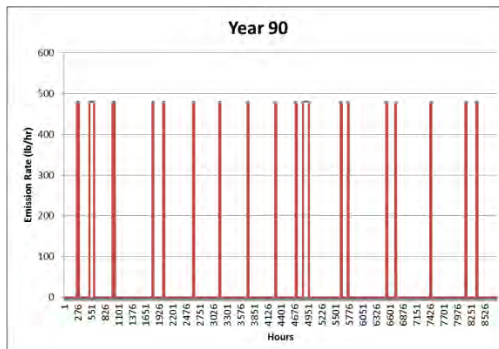
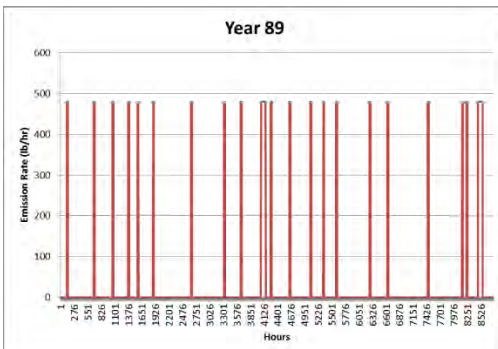
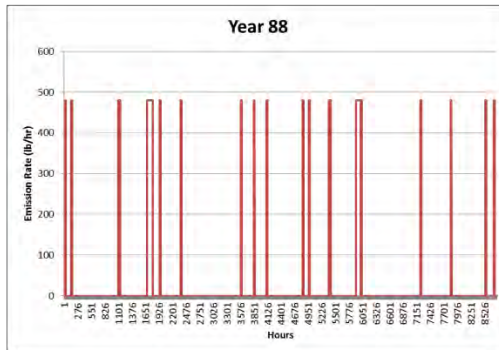
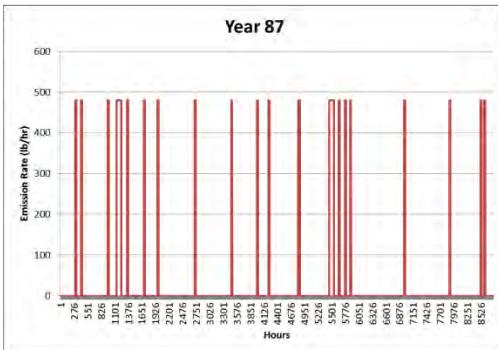
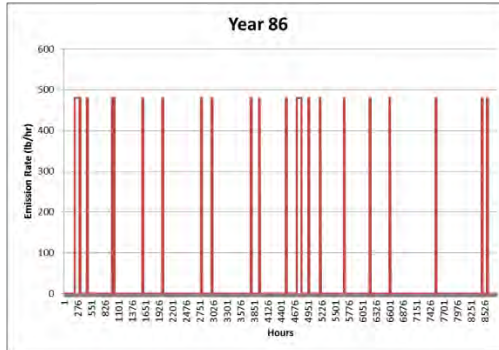
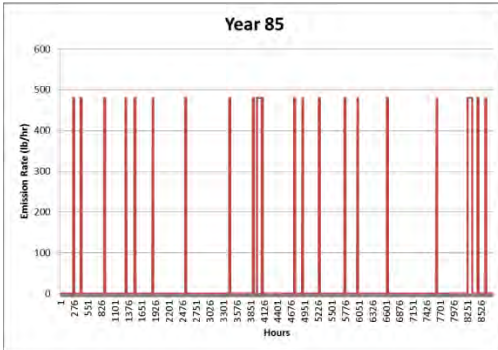
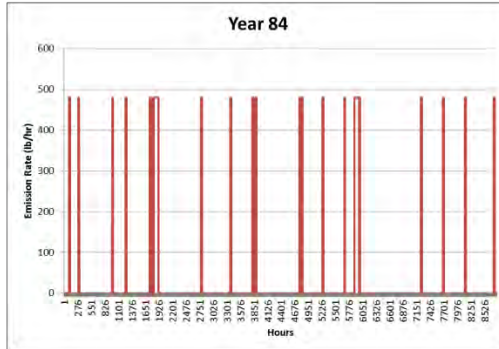
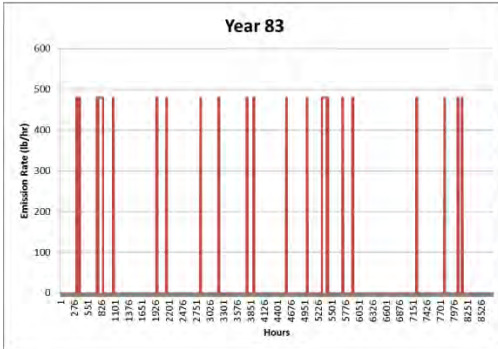
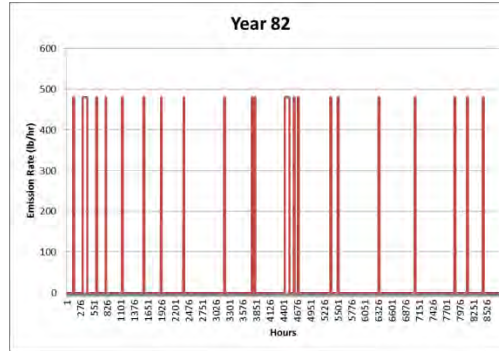
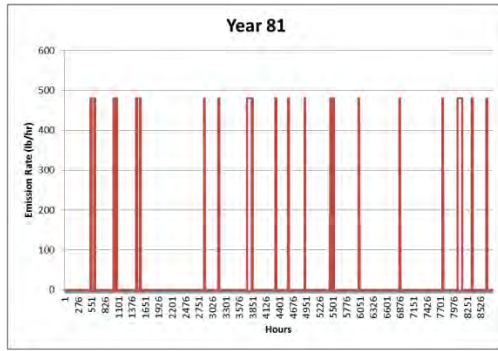




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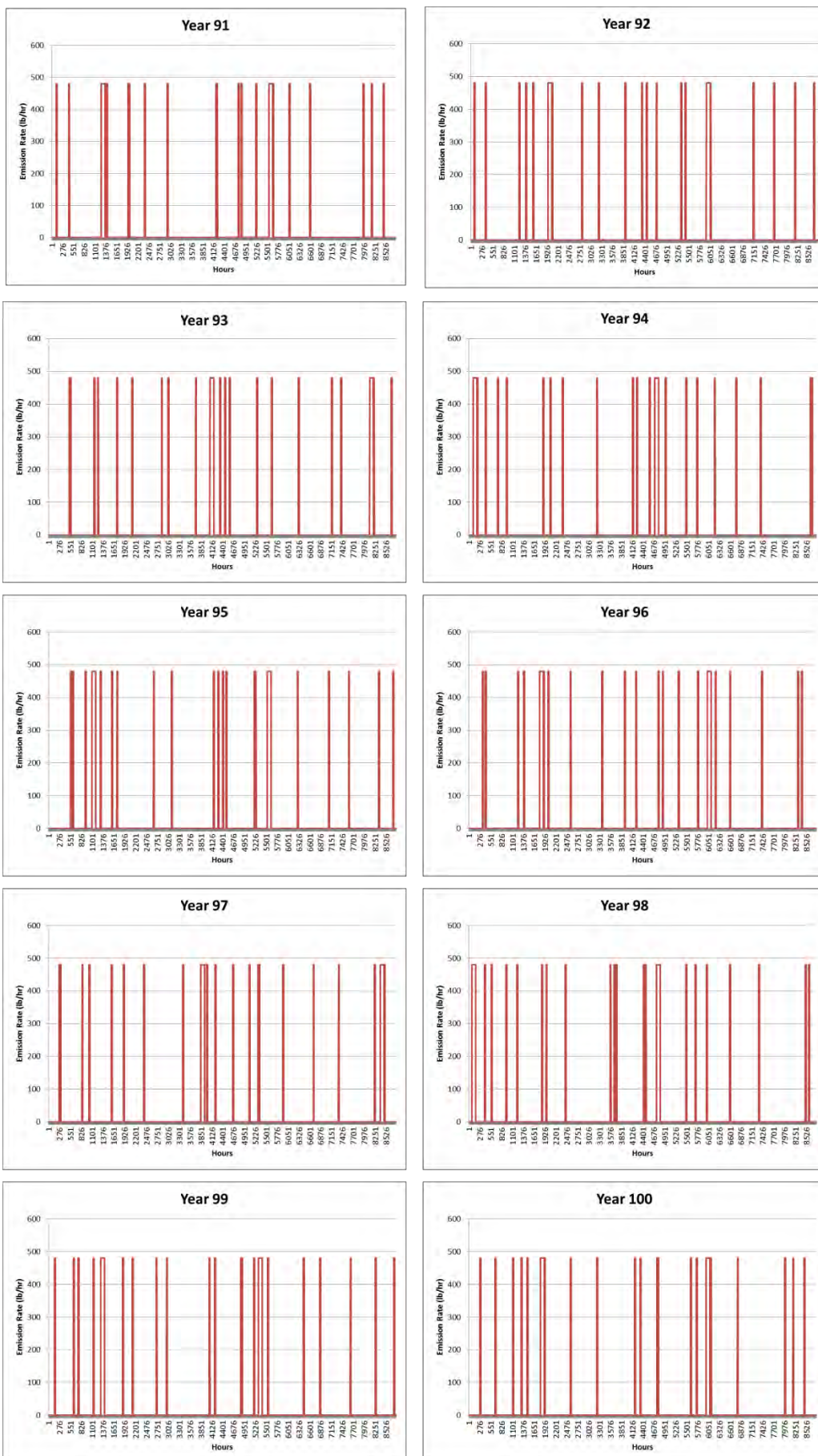


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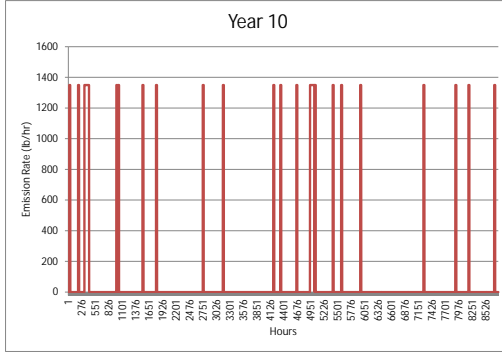
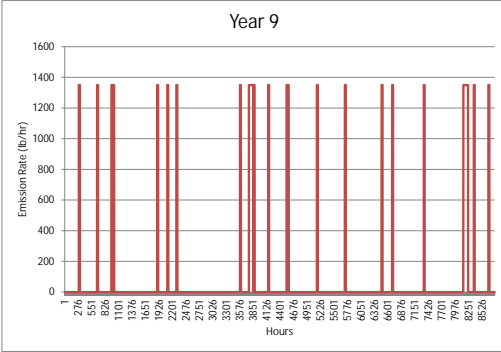
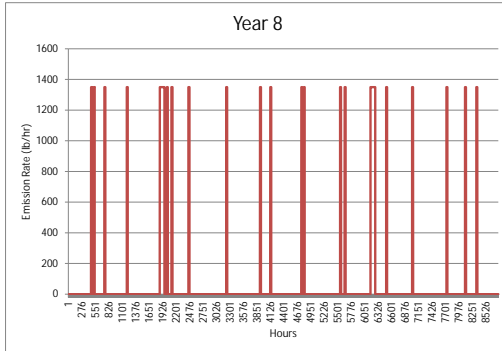
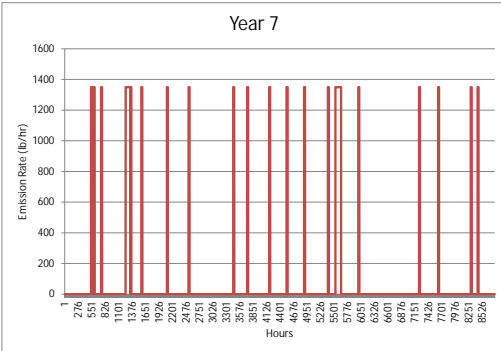
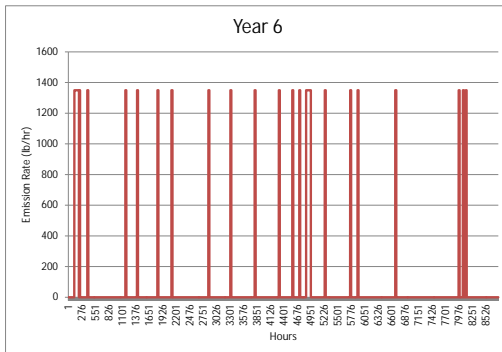
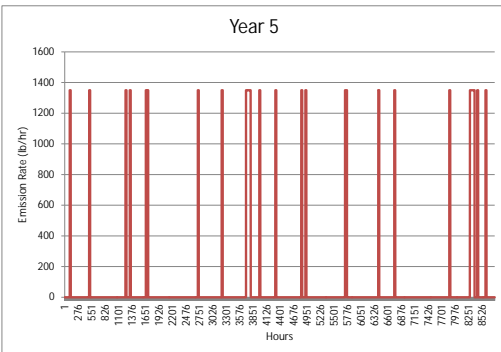
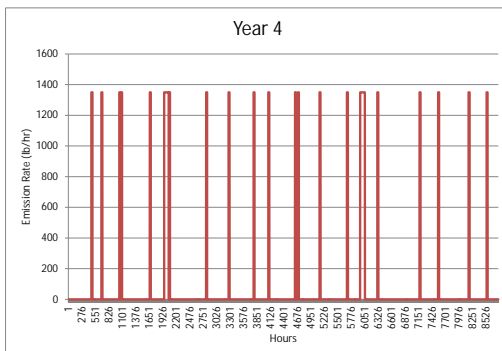
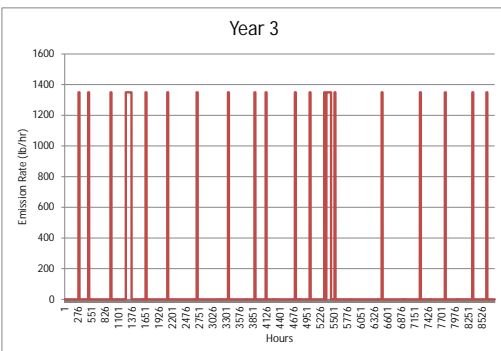
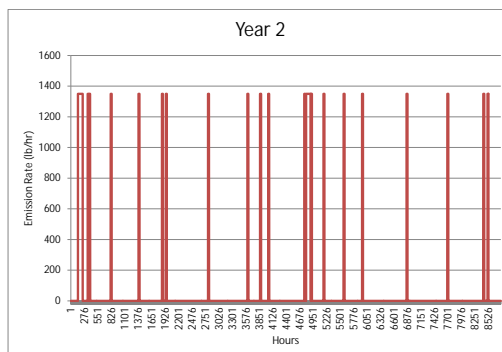
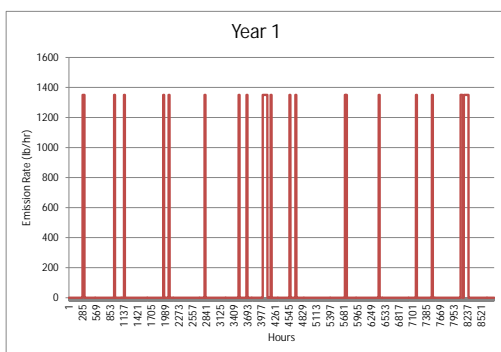
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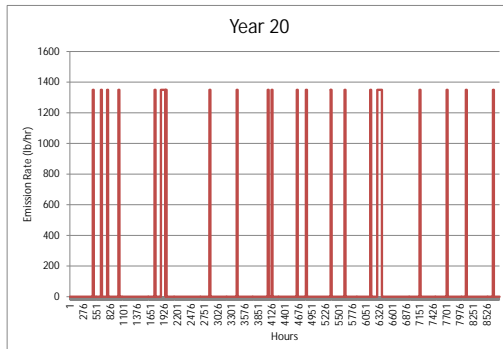
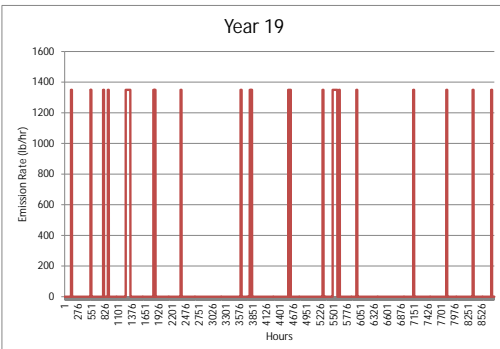
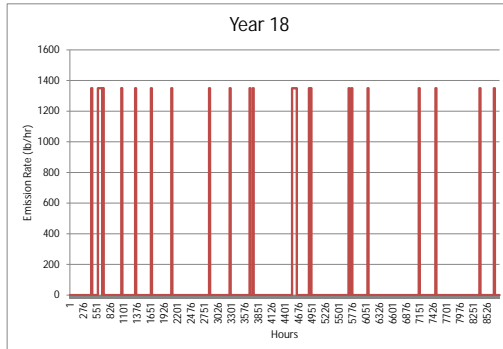
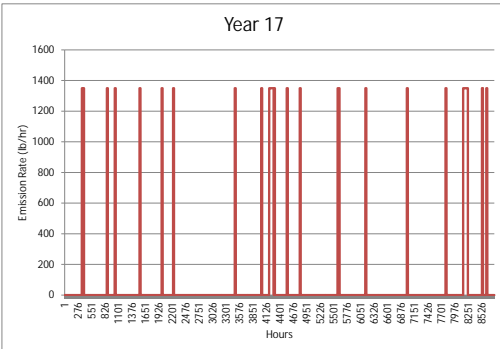
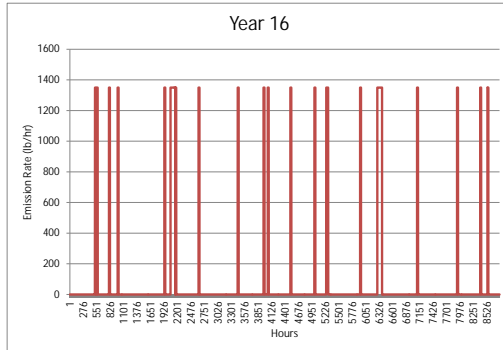
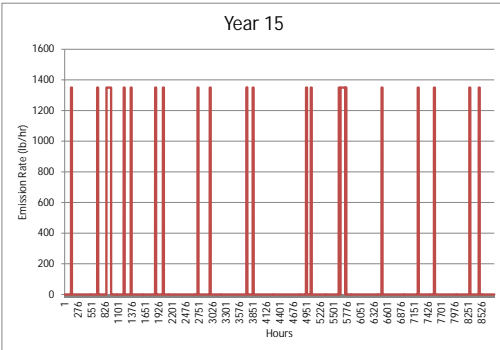
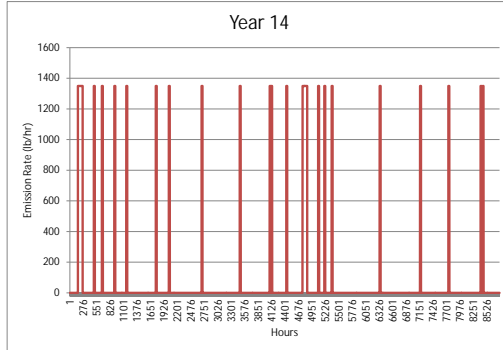
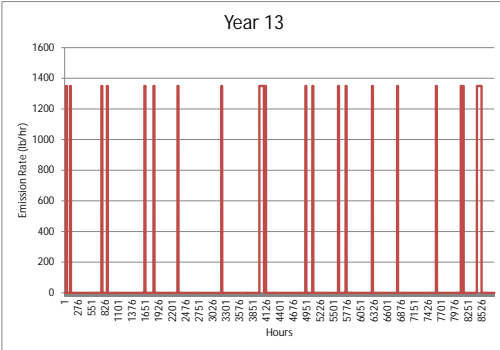
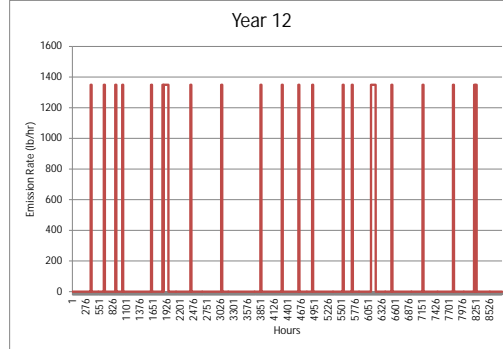
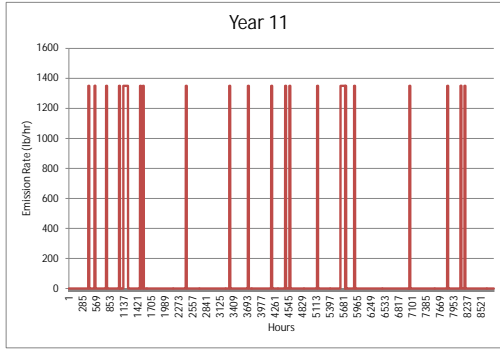
## Appendix E

### **Time Series Plots of 100 Years Simulated Emissions for Wagner Unit 4 Case 1**

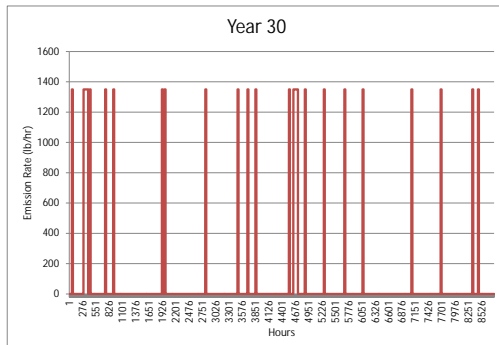
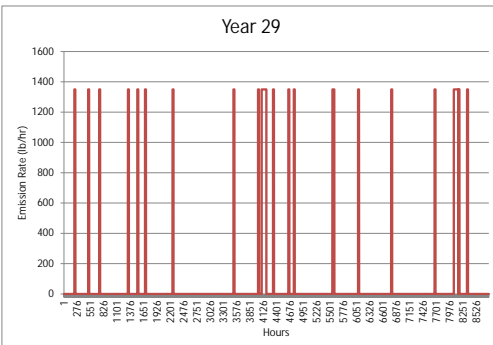
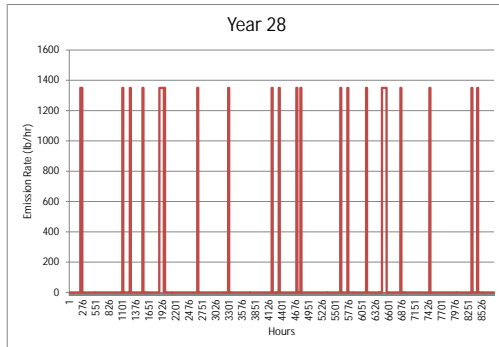
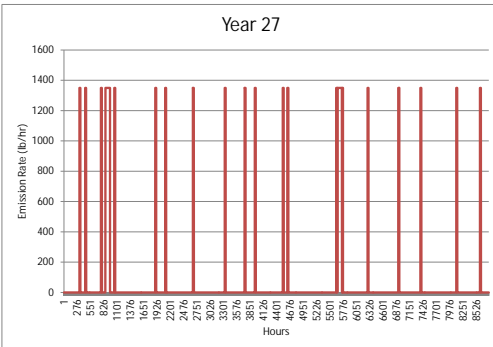
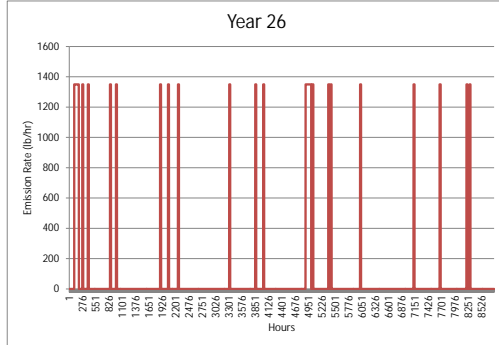
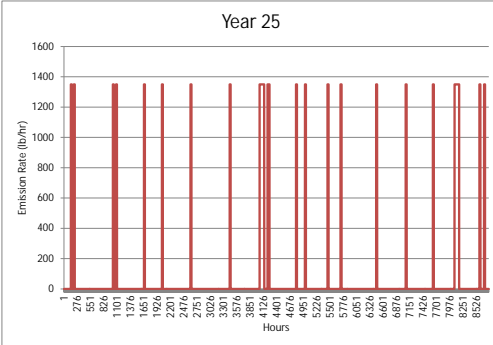
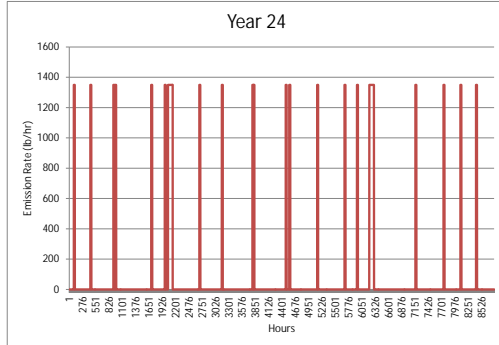
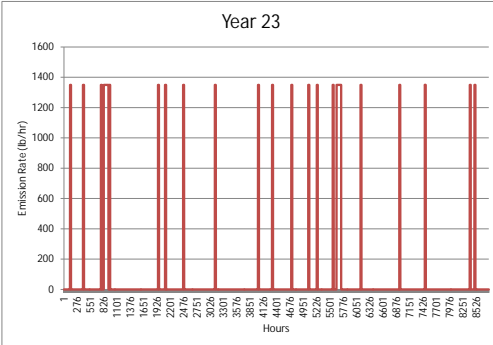
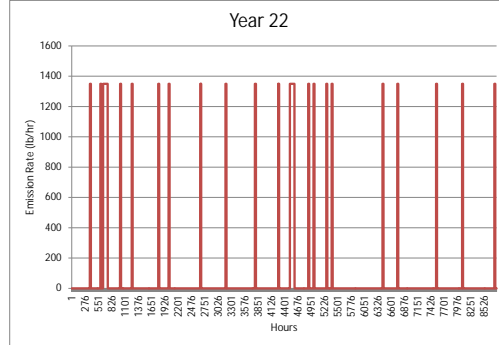
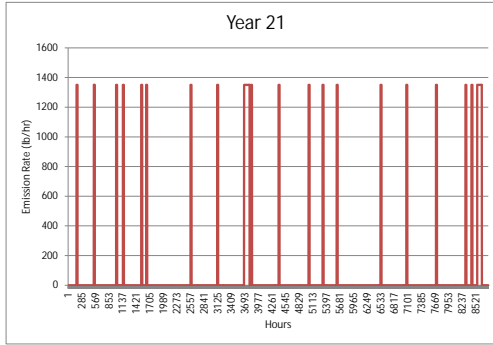
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



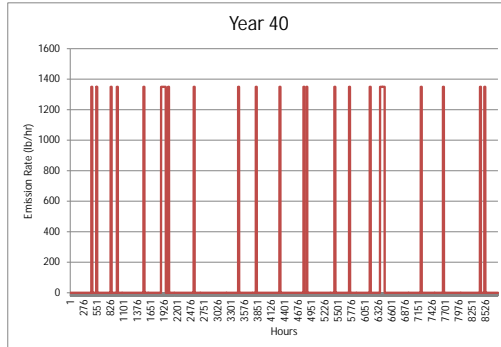
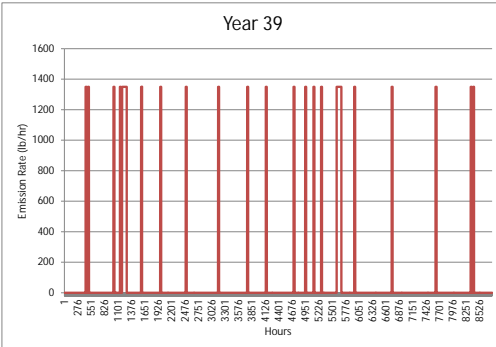
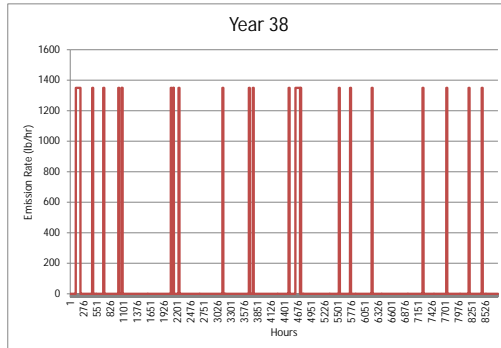
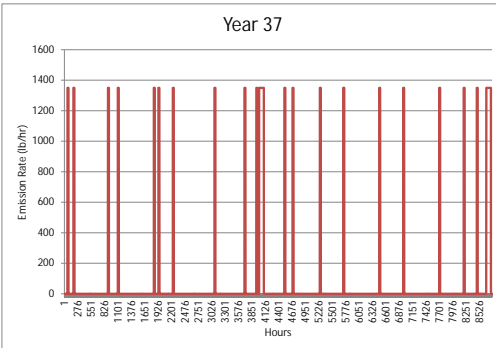
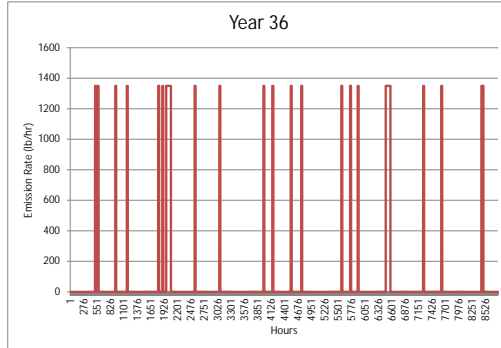
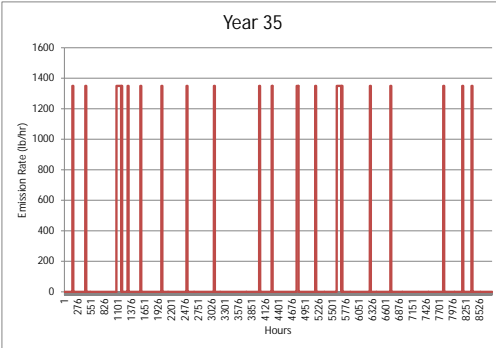
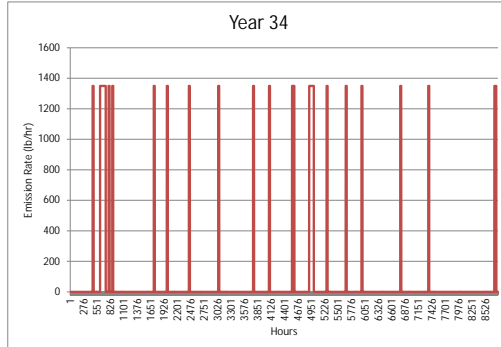
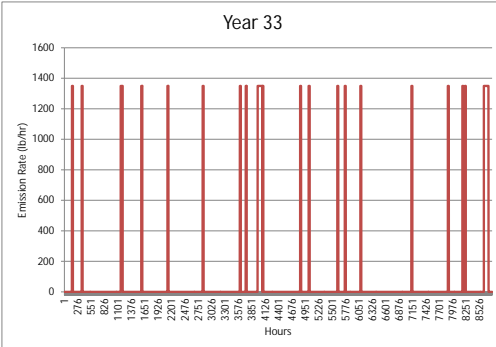
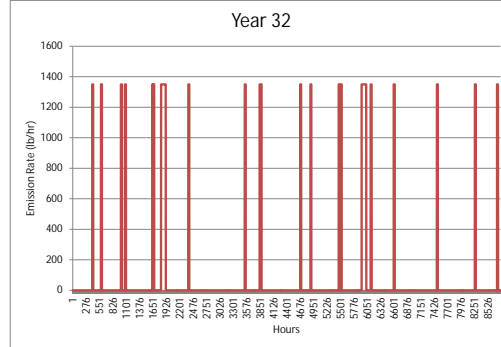
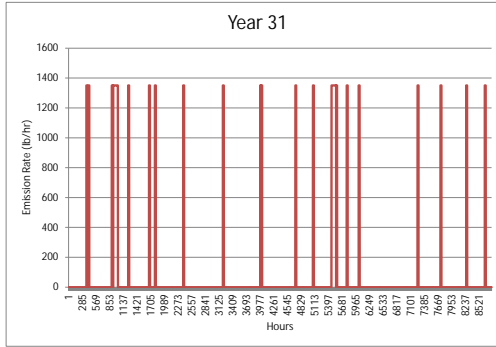
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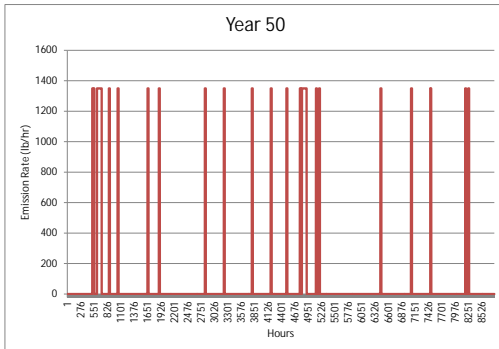
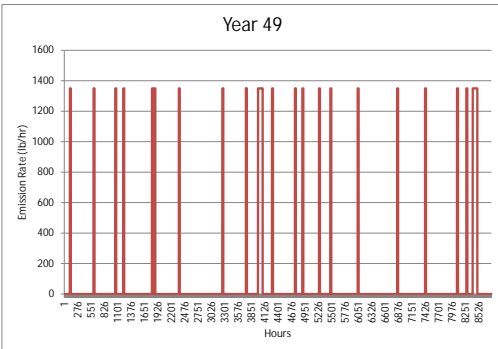
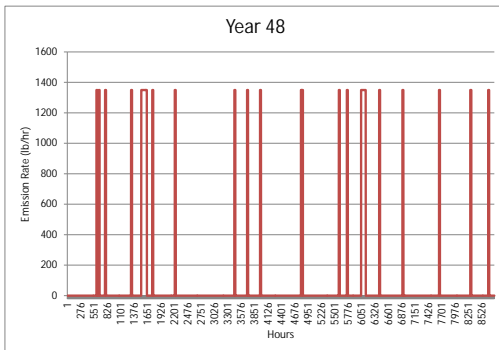
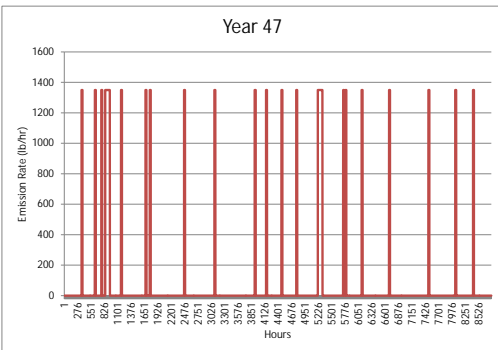
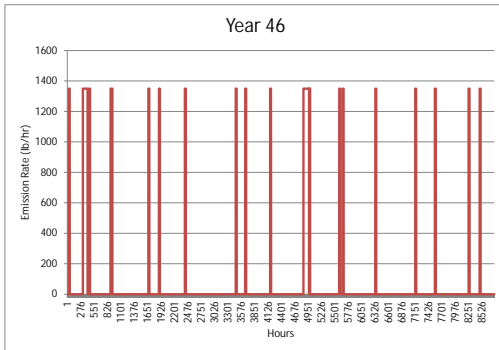
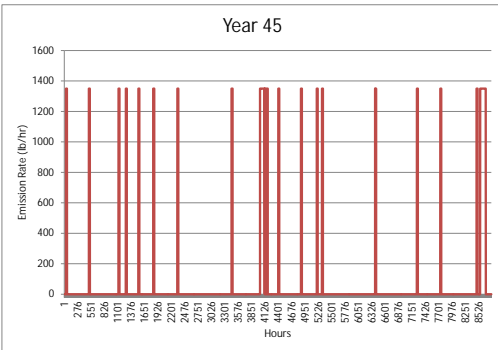
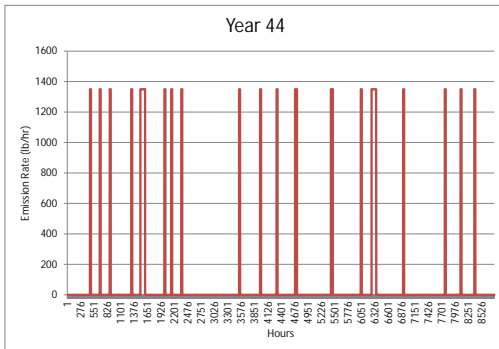
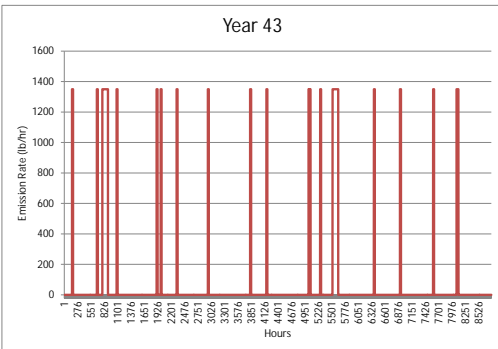
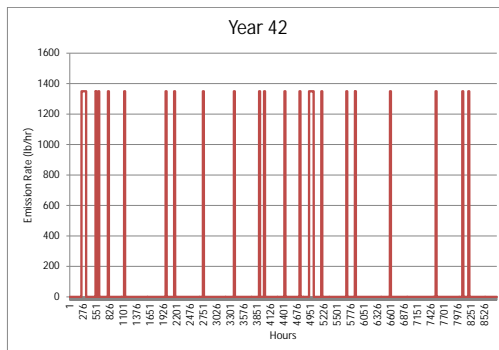
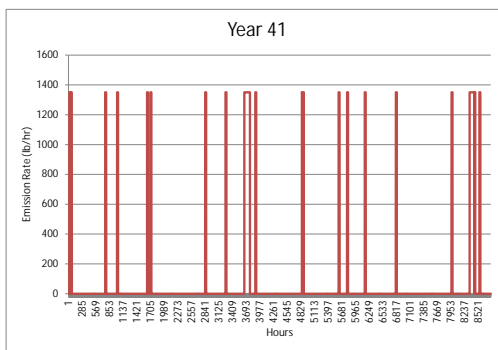


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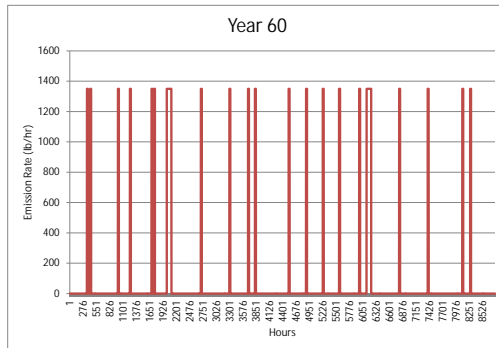
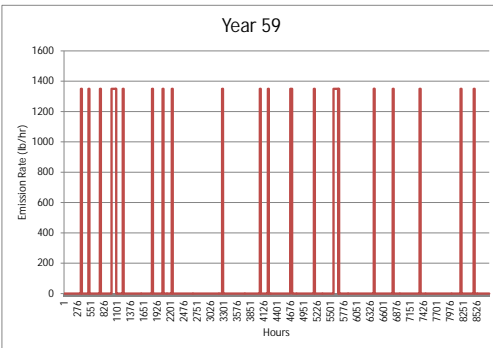
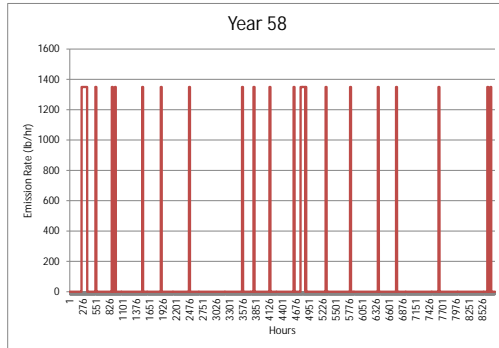
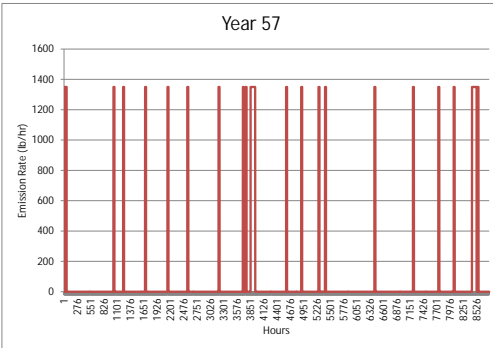
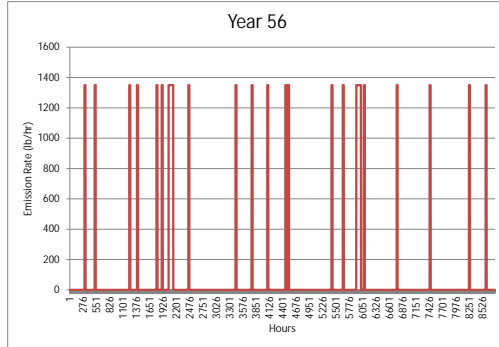
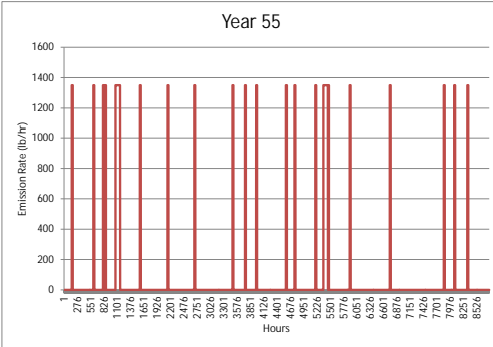
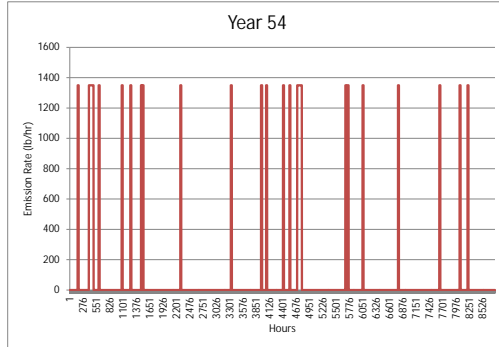
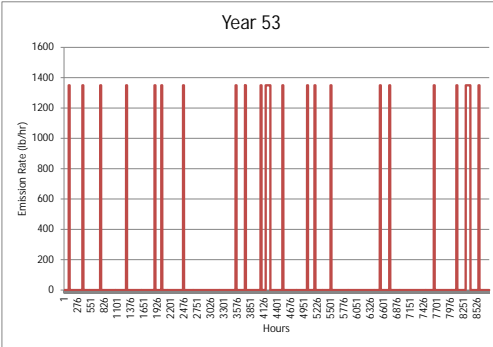
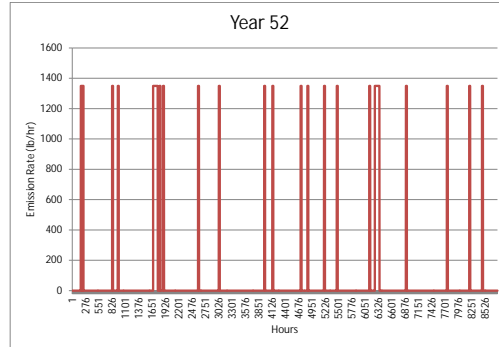
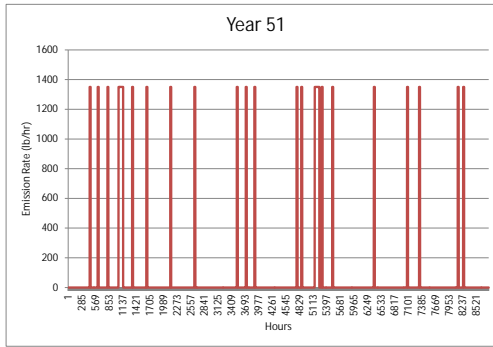




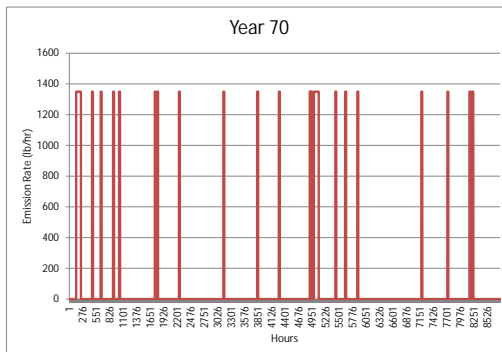
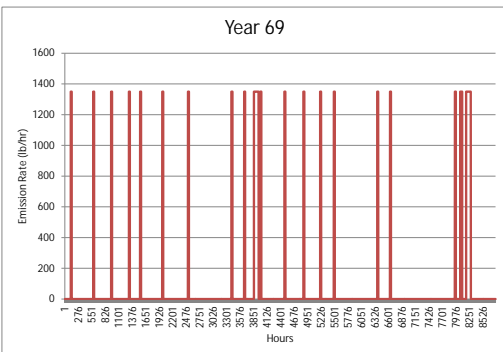
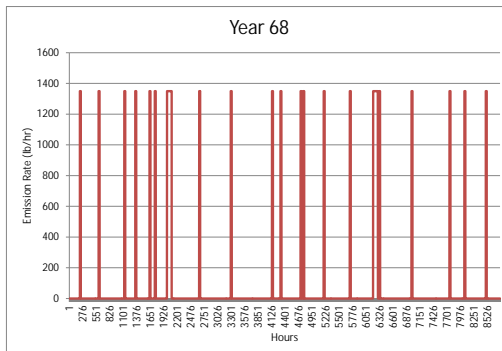
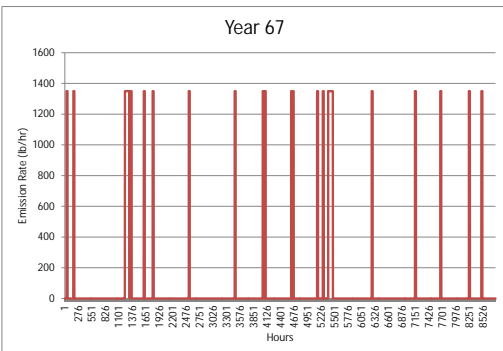
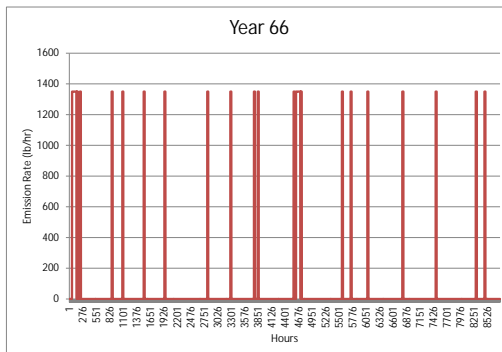
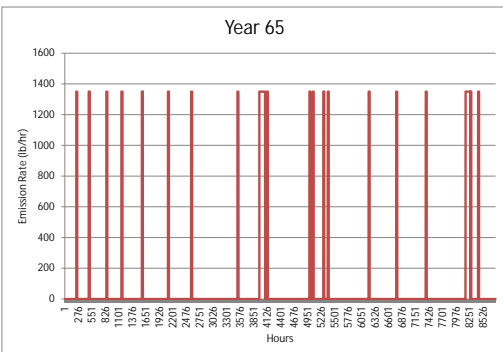
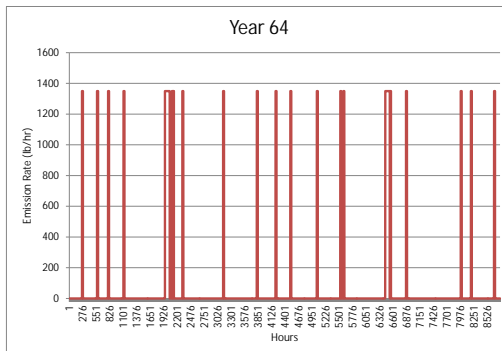
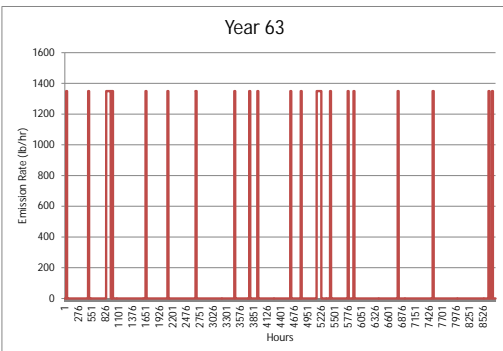
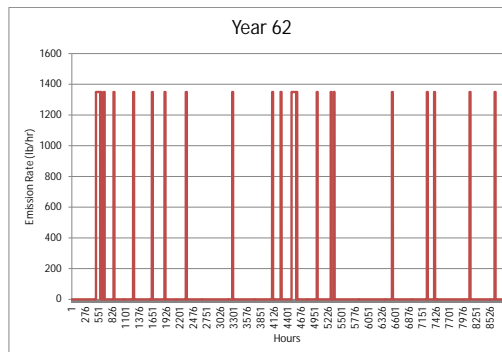
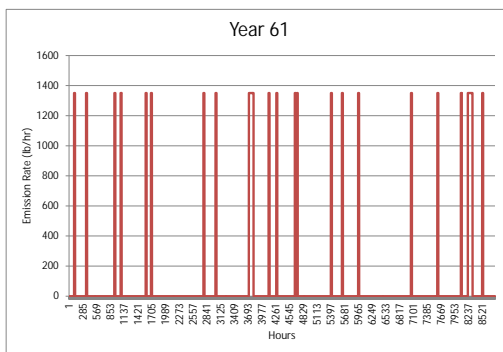
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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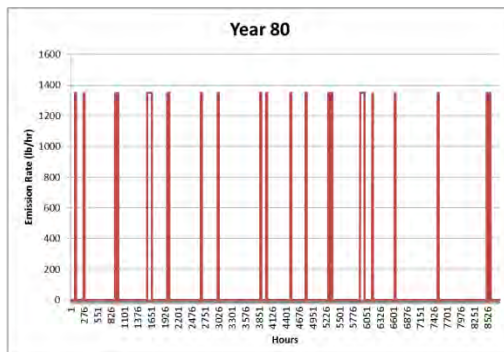
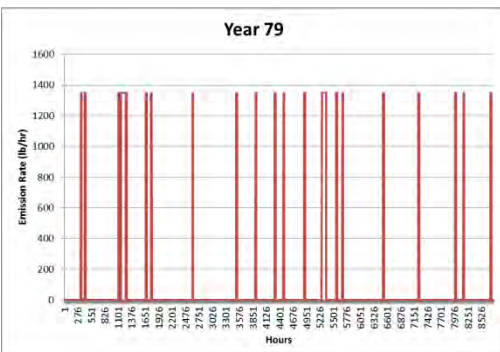
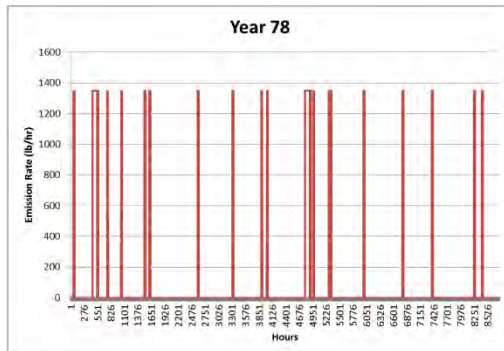
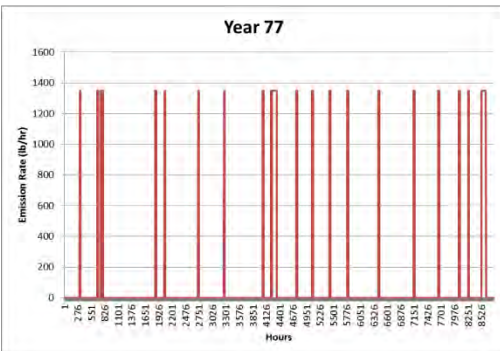
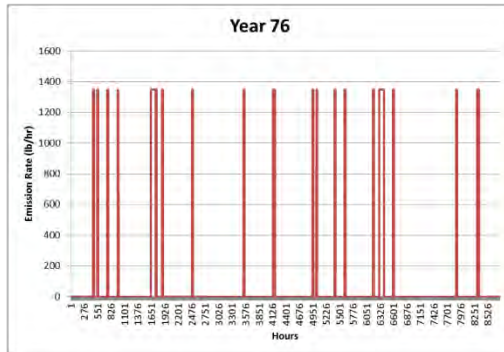
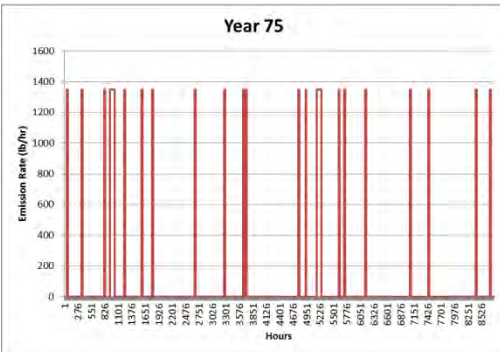
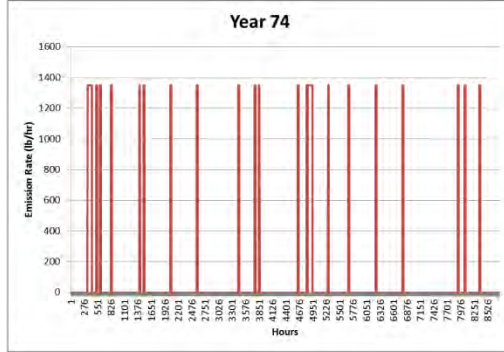
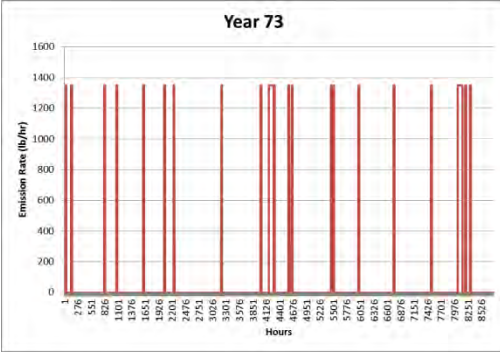
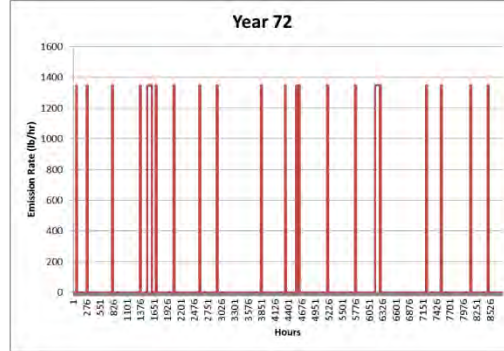
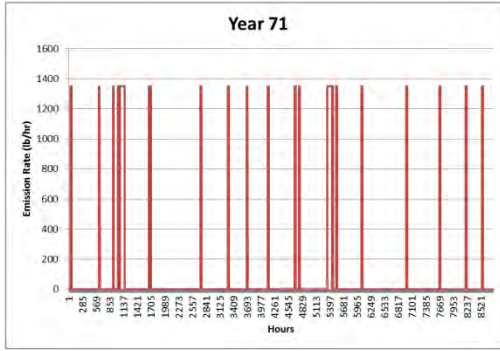
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



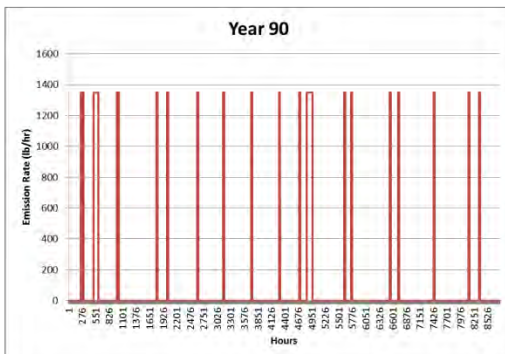
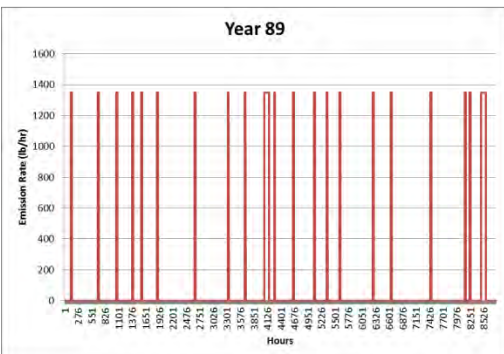
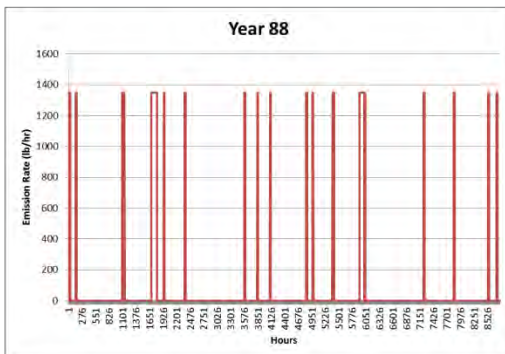
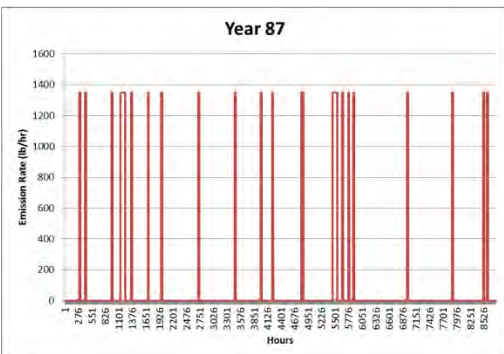
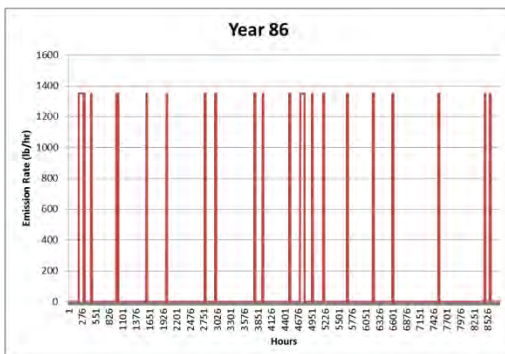
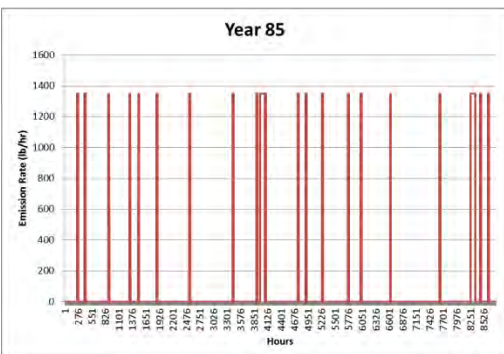
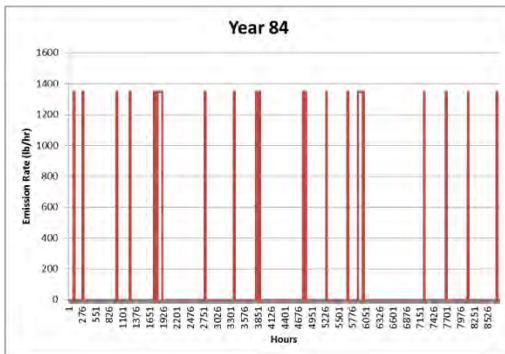
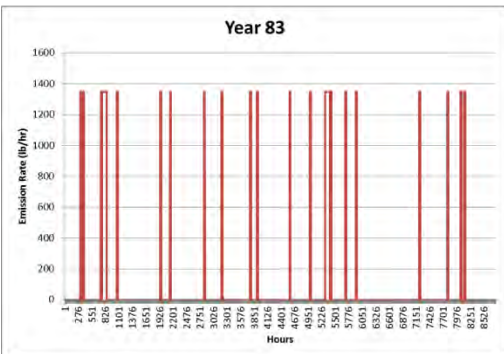
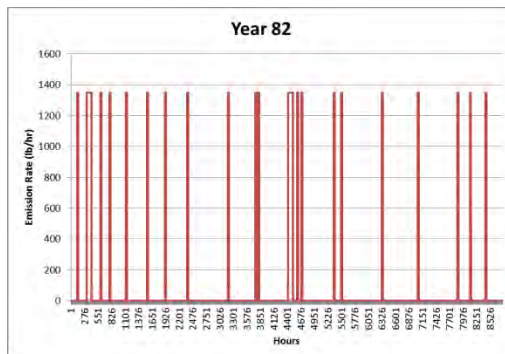
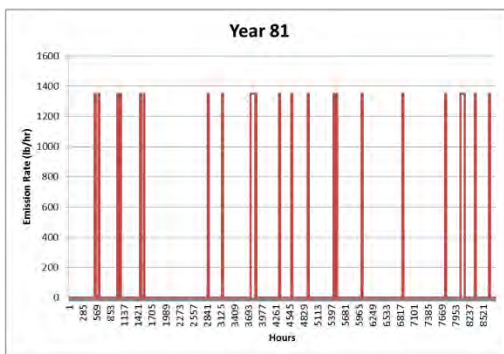
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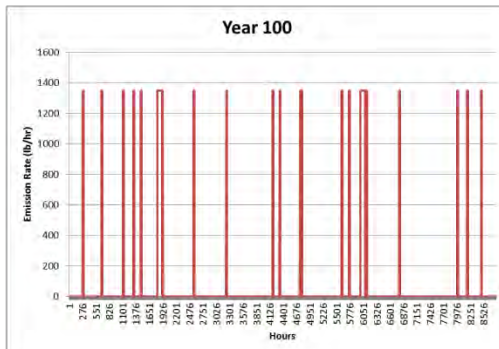
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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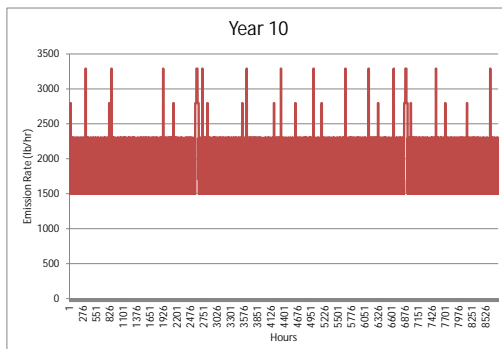
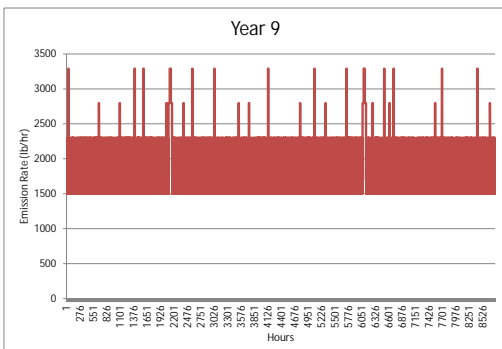
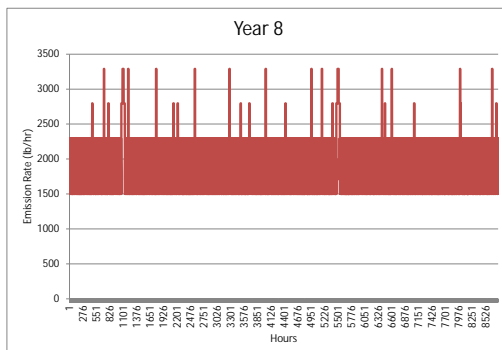
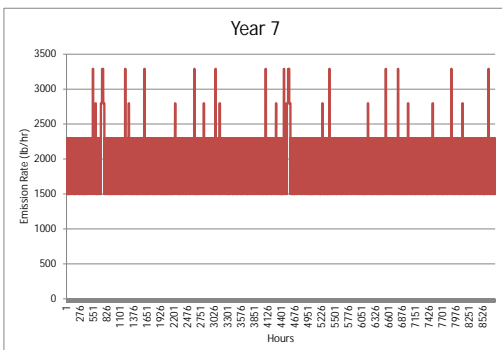
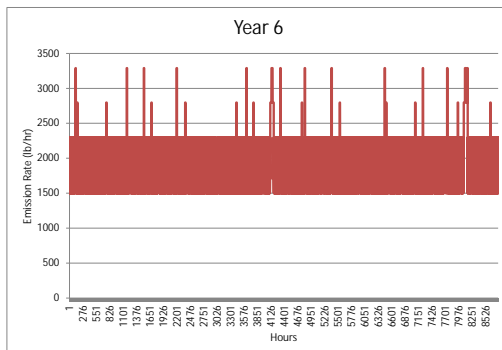
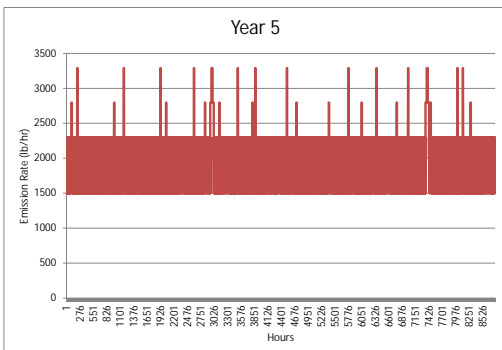
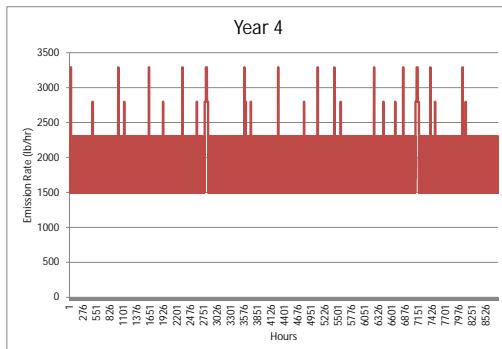
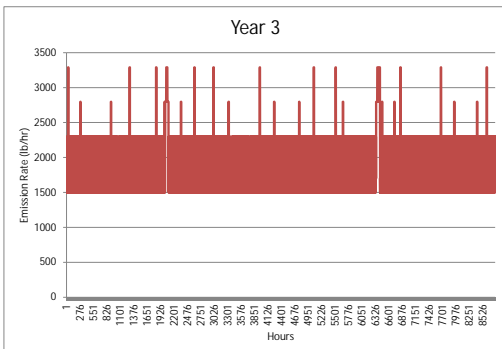
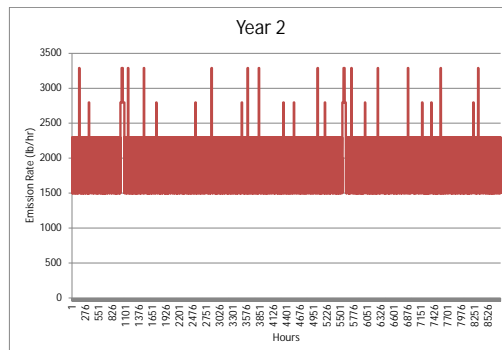
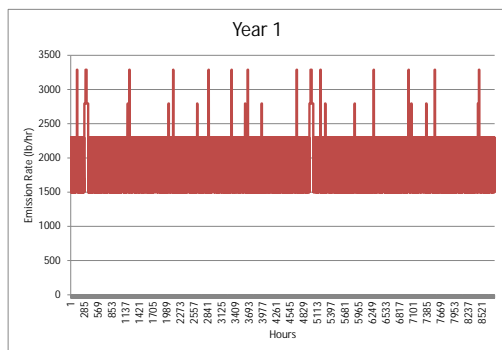




## Appendix F

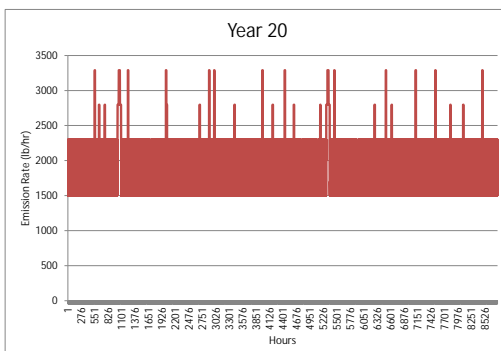
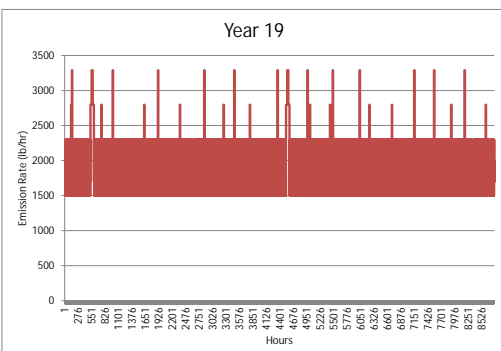
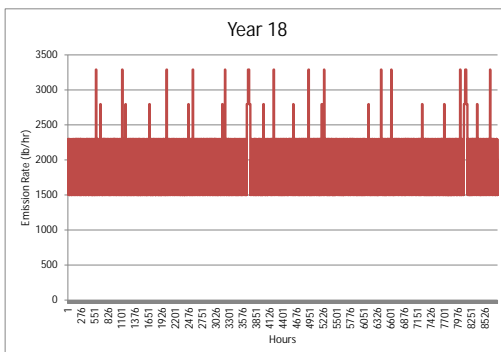
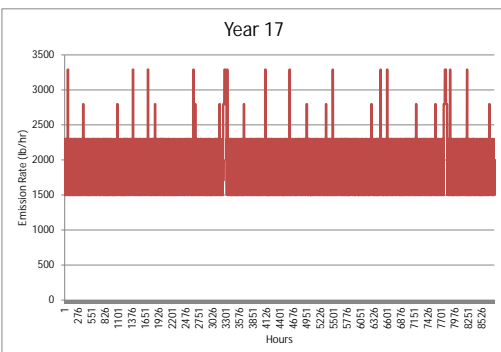
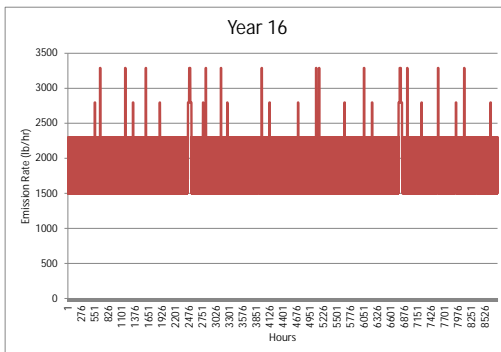
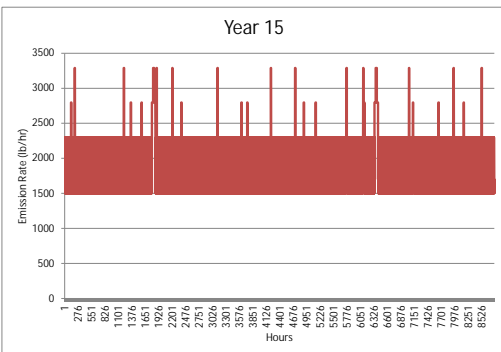
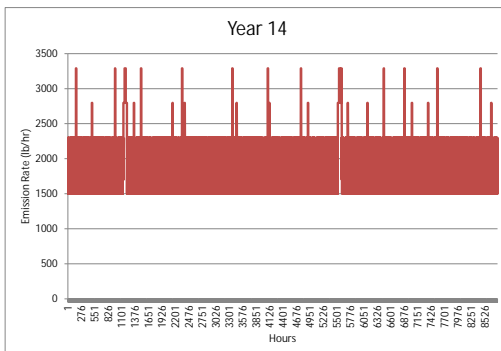
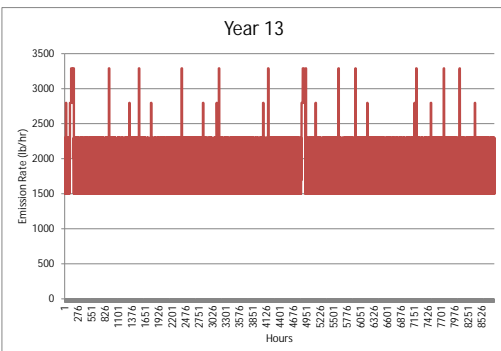
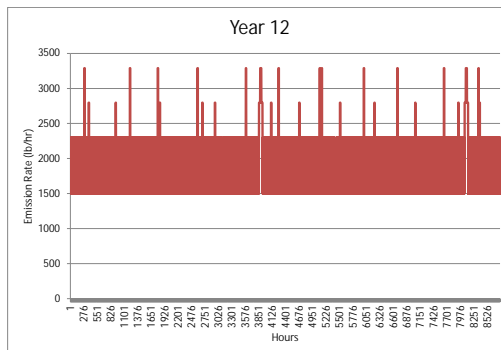
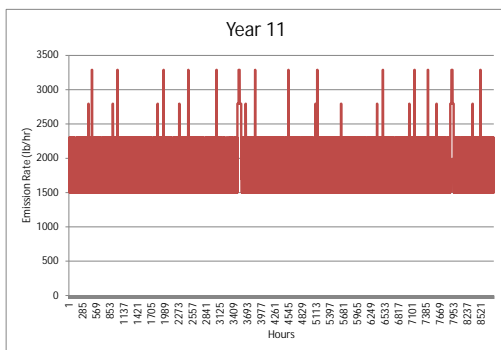
### **Time Series Plots of 100 Years Simulated Emissions for Wagner Unit 3 Case 1**

SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area

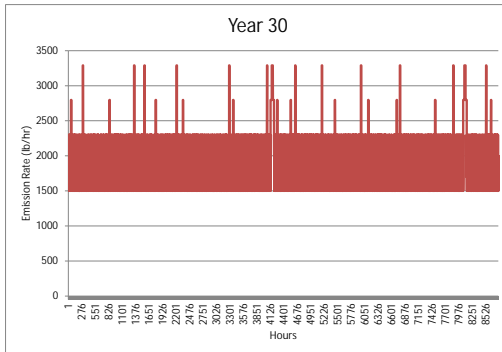
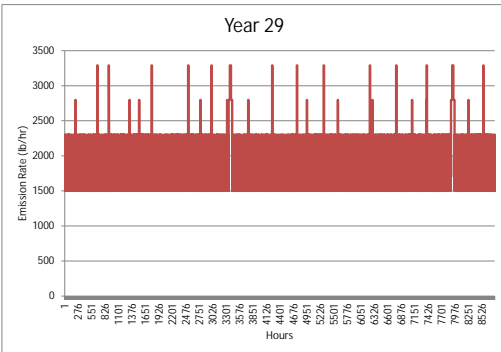
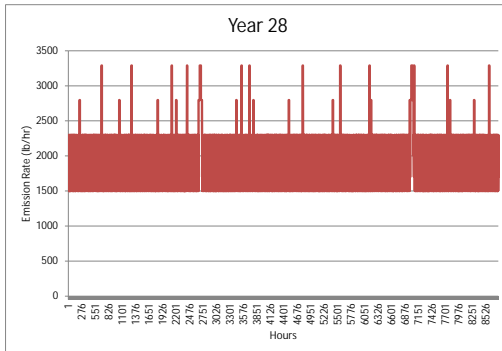
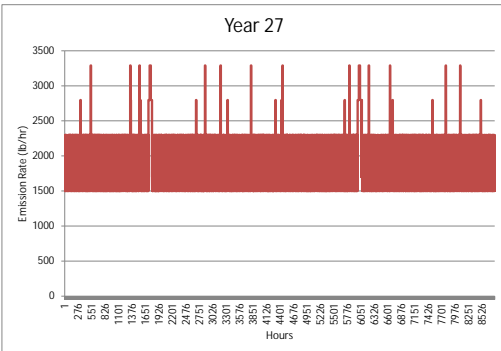
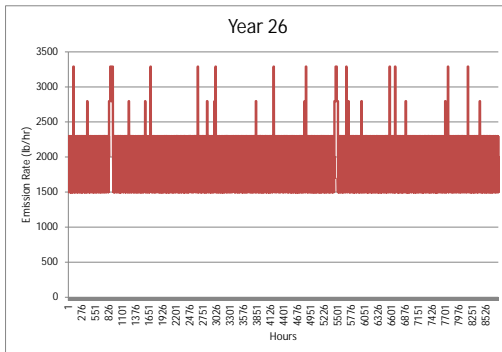
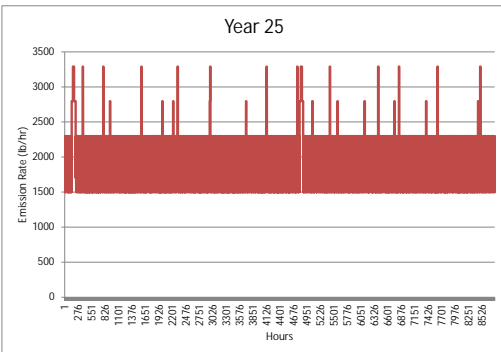
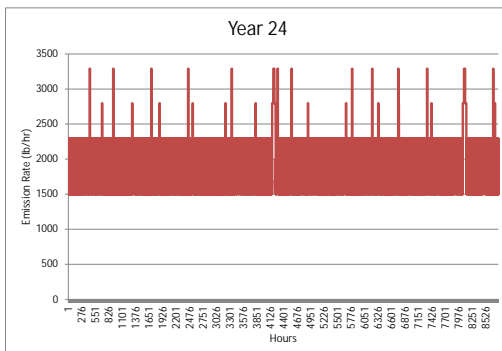
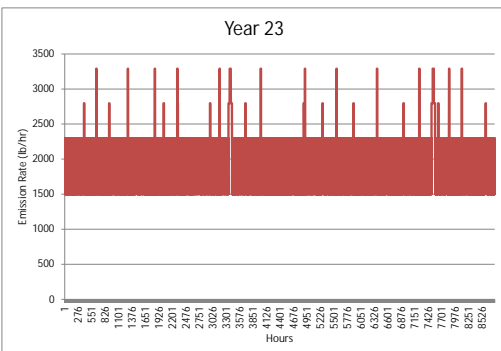
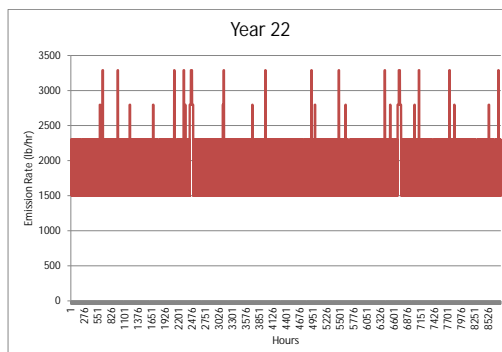
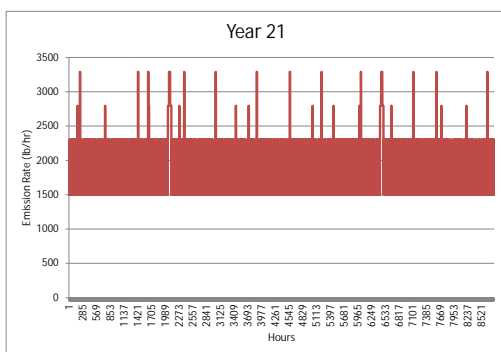




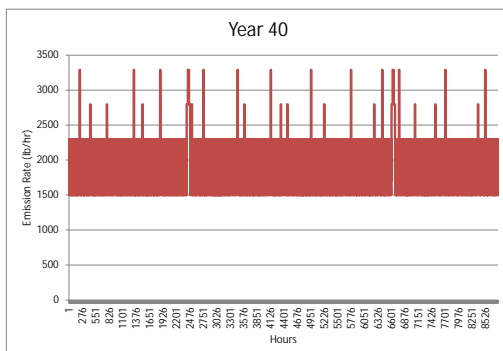
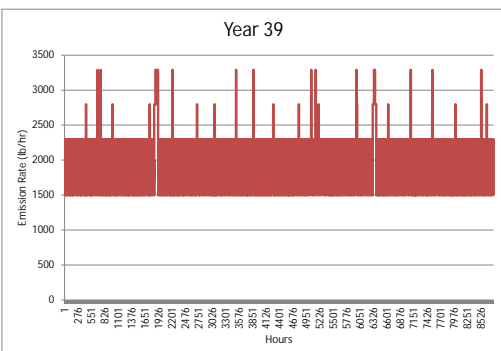
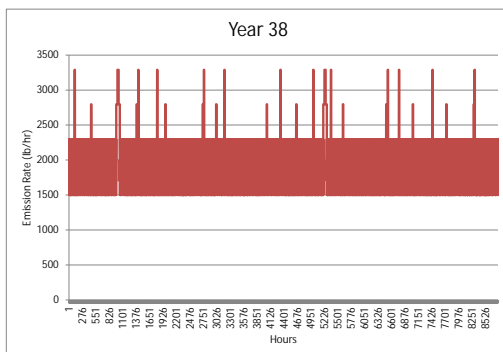
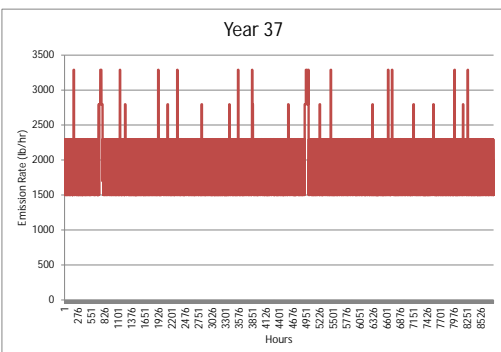
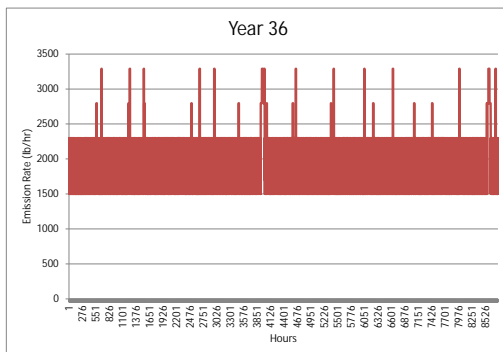
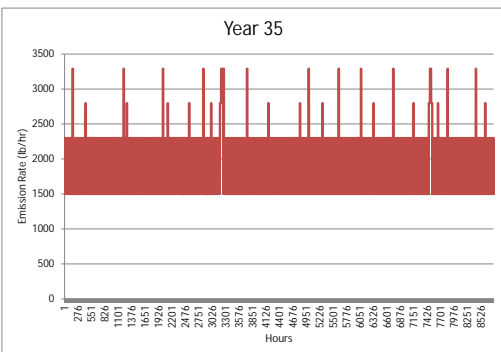
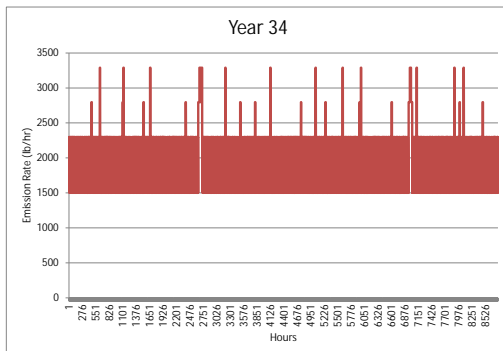
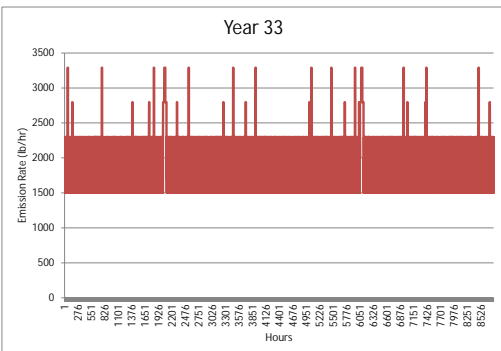
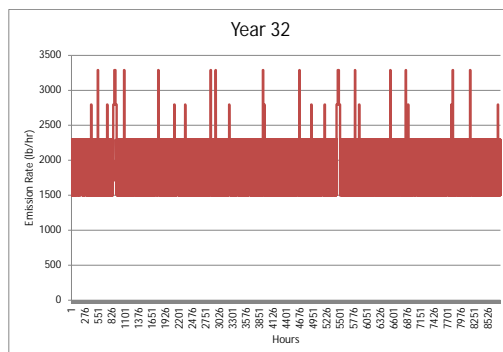
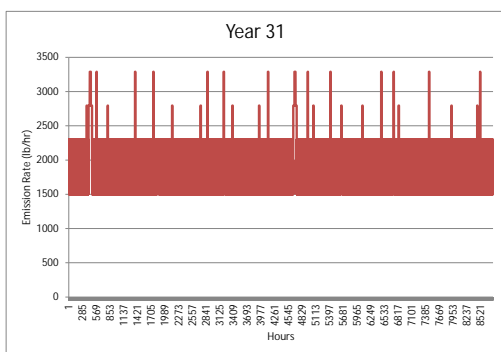
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



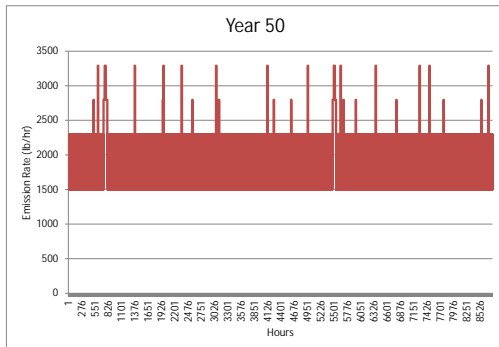
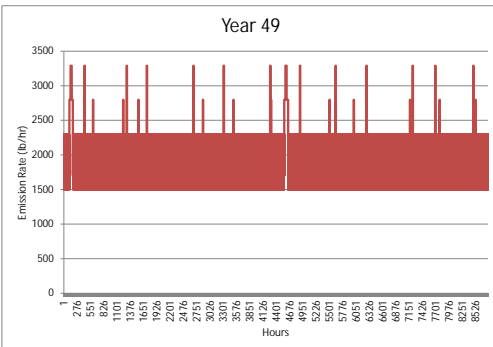
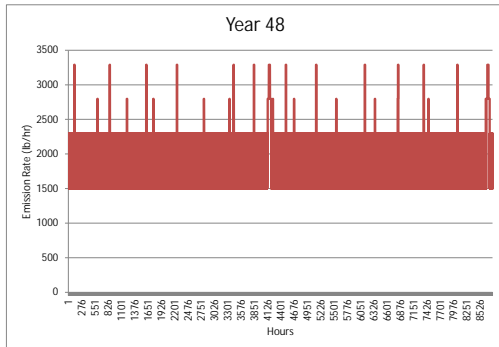
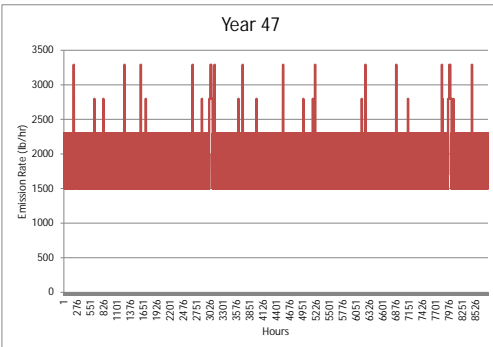
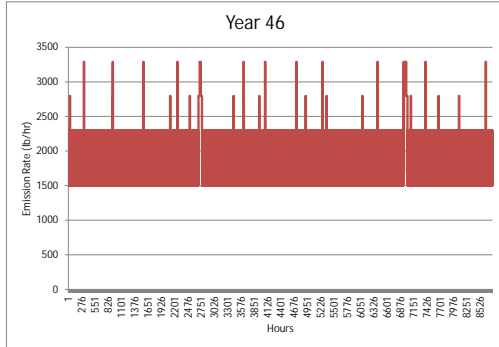
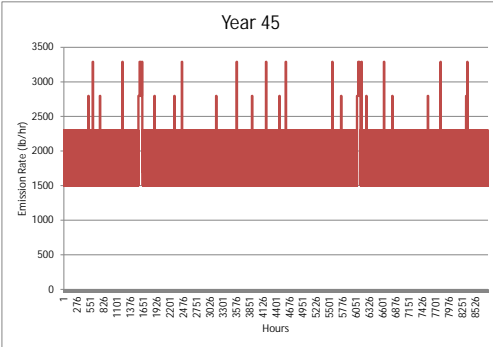
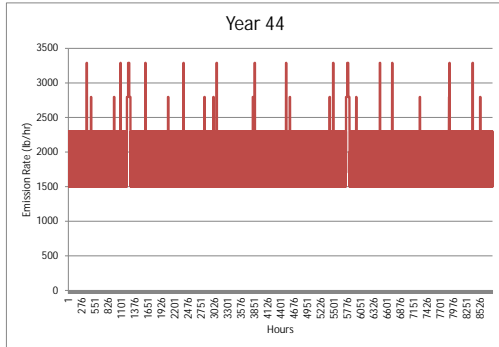
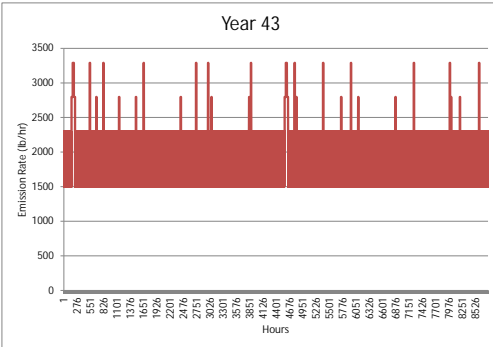
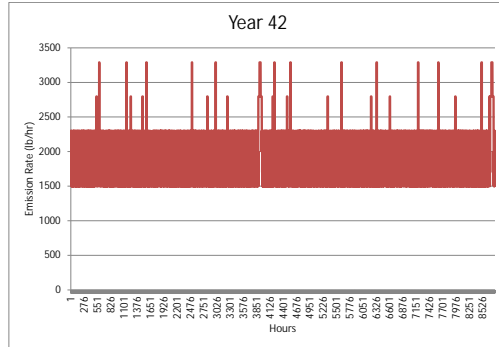
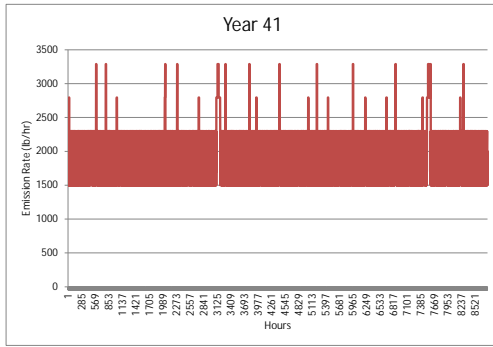
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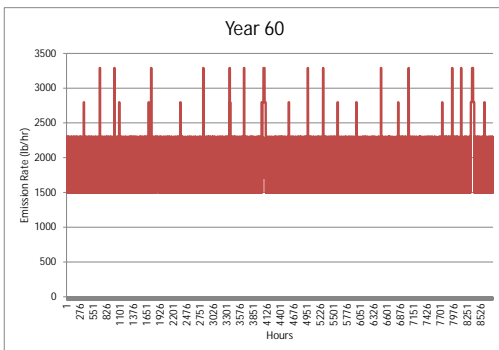
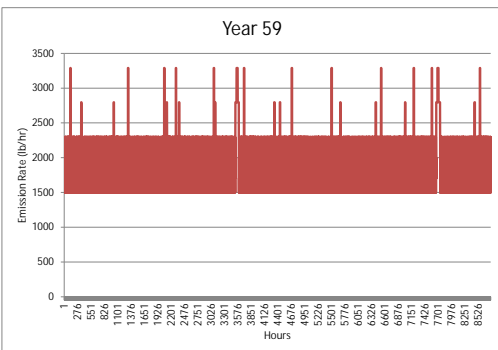
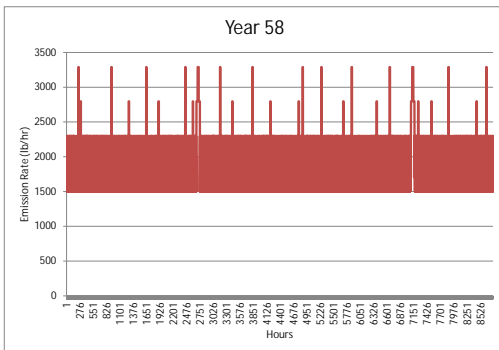
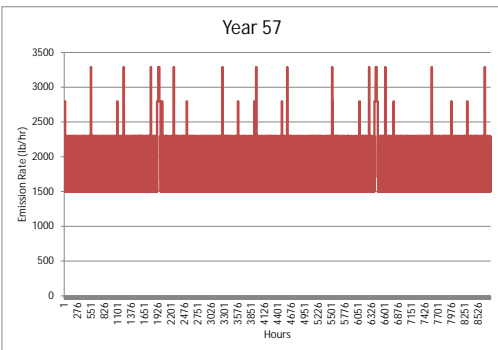
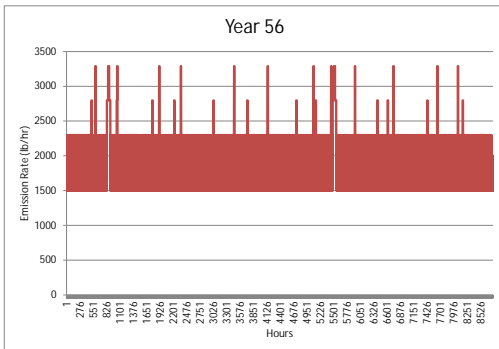
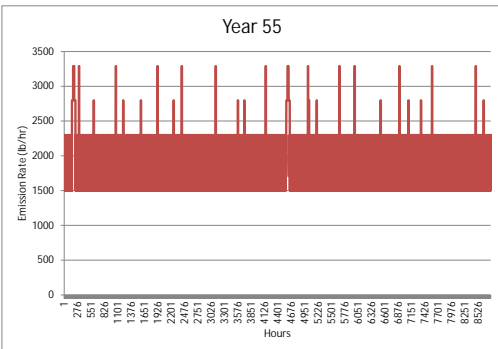
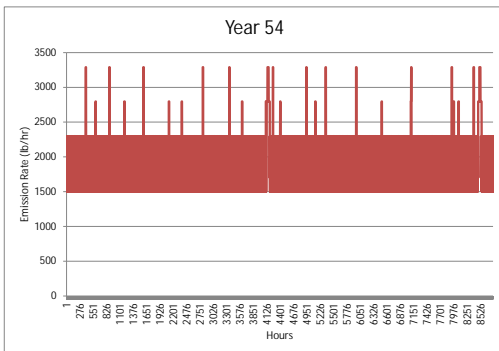
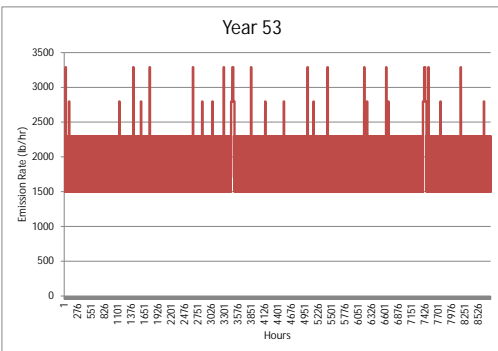
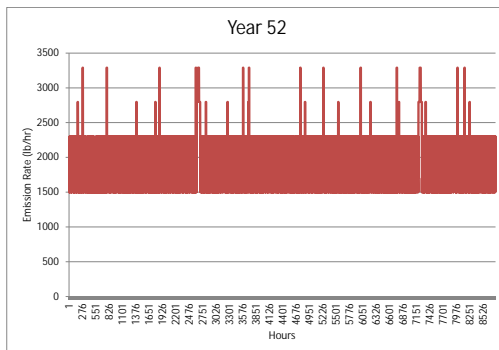
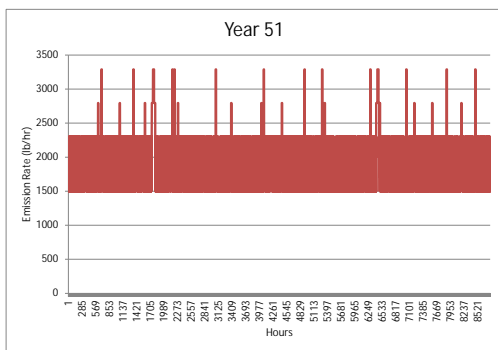
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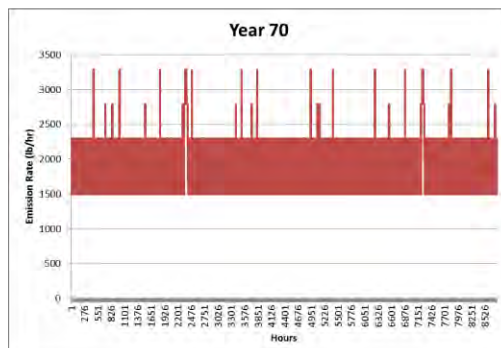
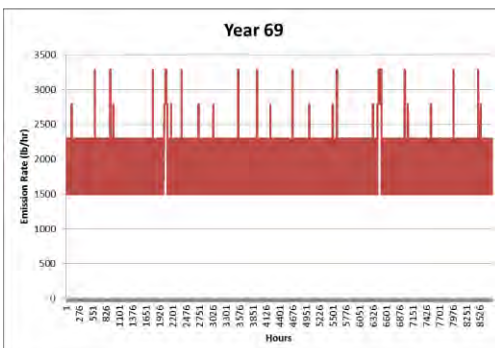
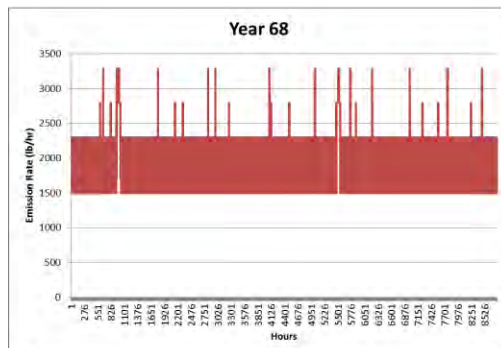
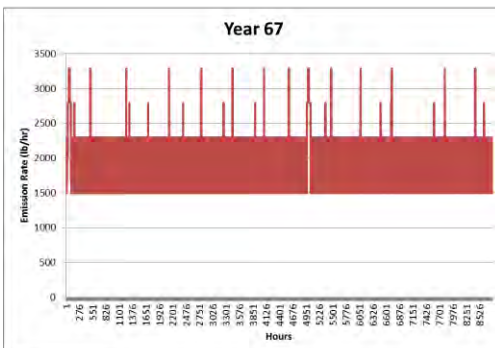
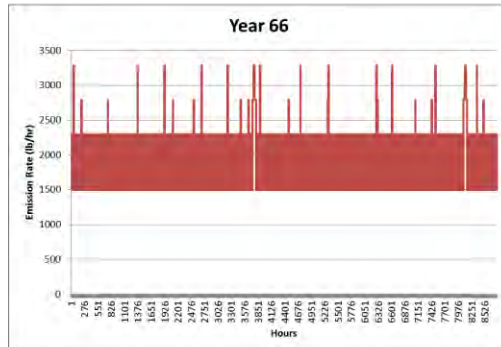
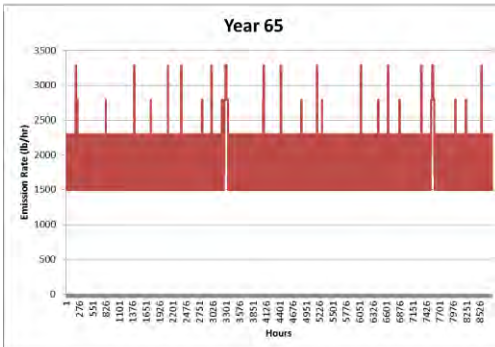
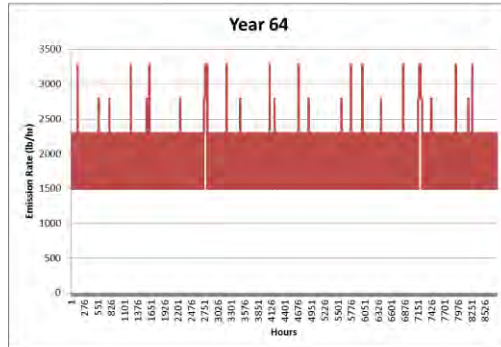
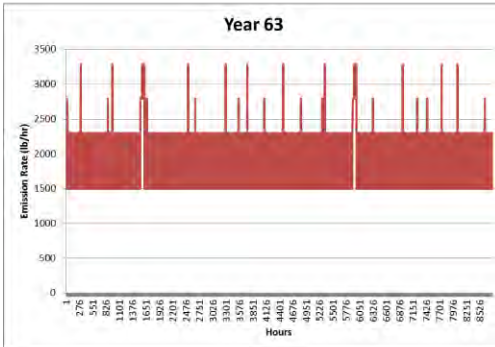
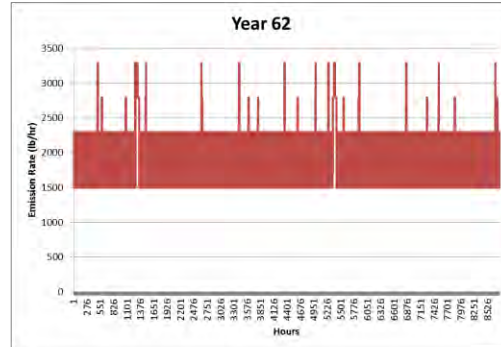
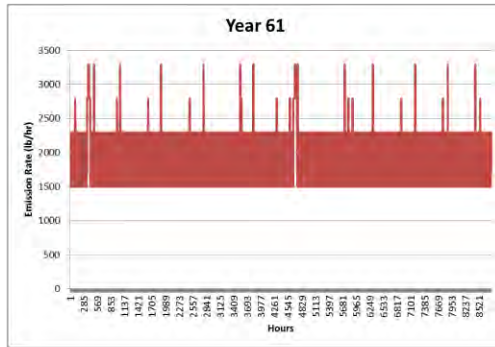
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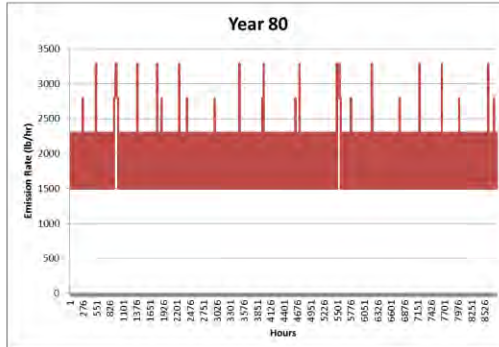
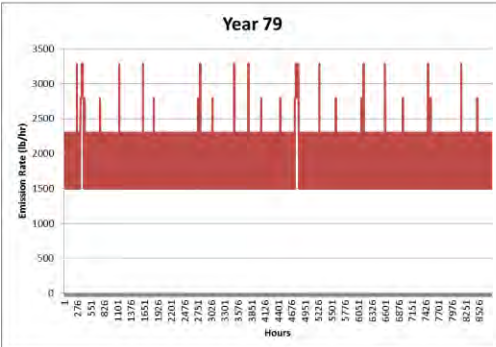
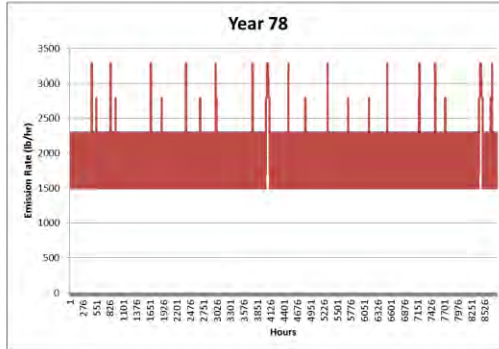
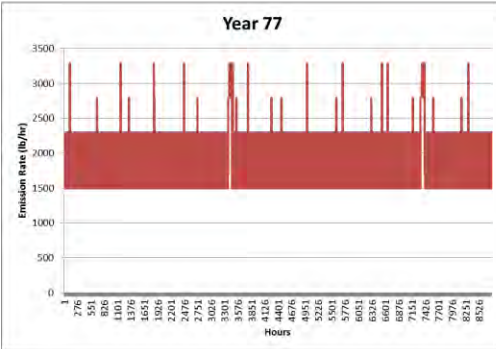
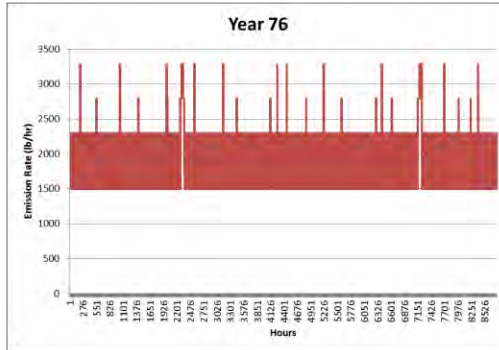
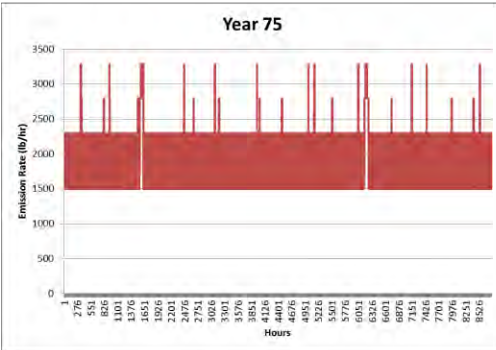
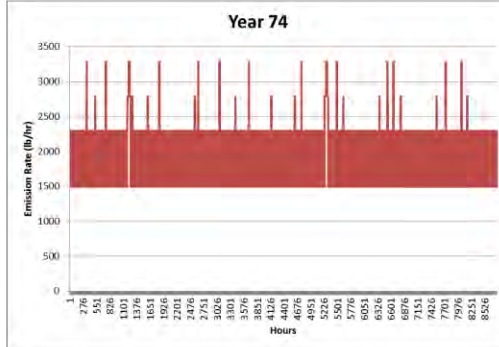
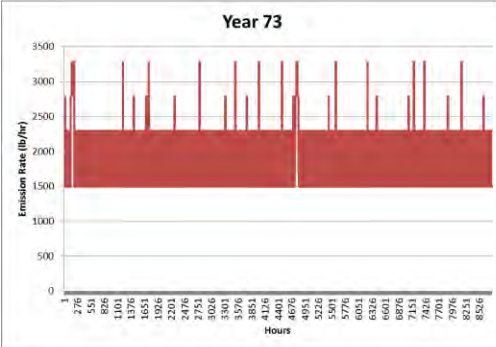
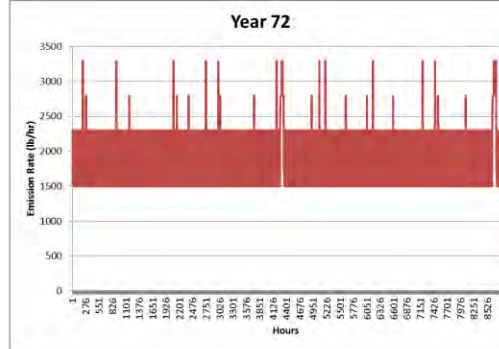
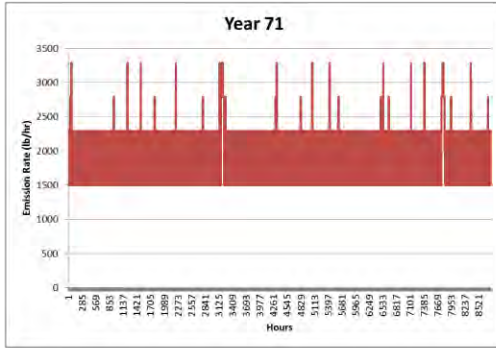
SO<sub>2</sub> NAAQS Compliance Modeling Report for  
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the Anne Arundel and Batimore Counties Non-Attainment Area

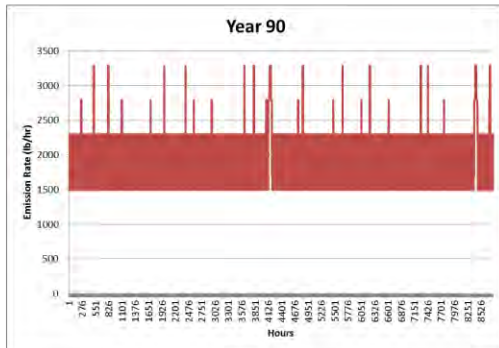
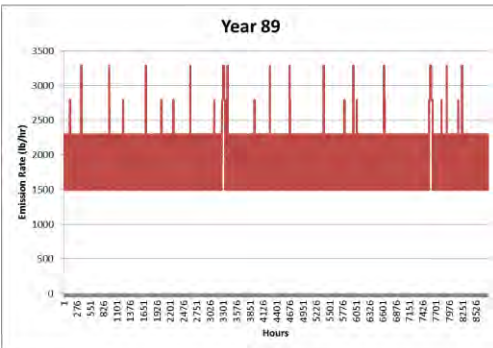
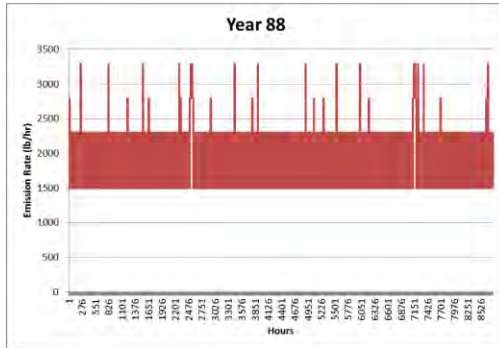
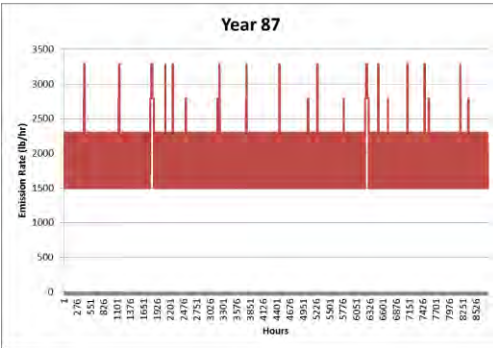
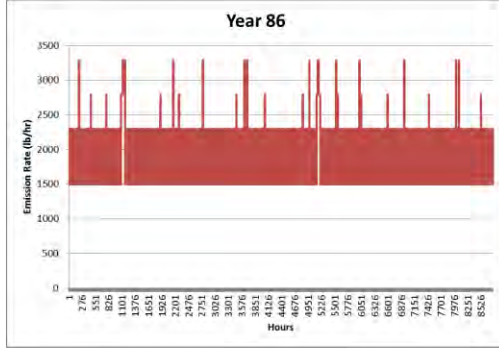
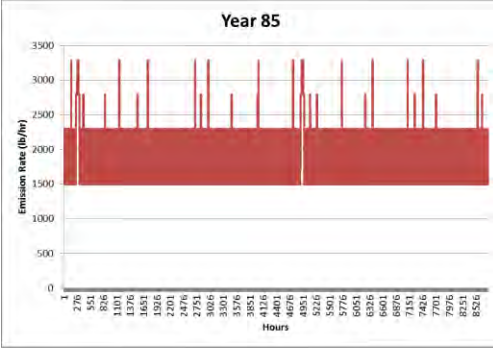
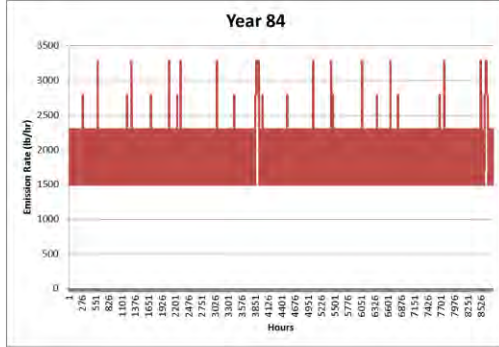
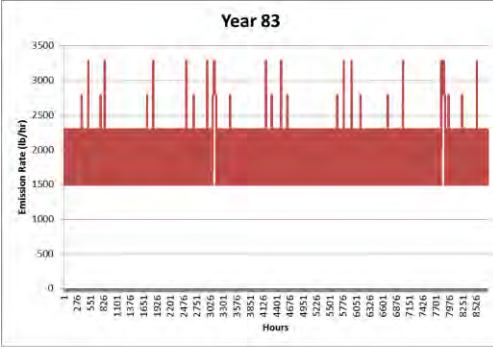
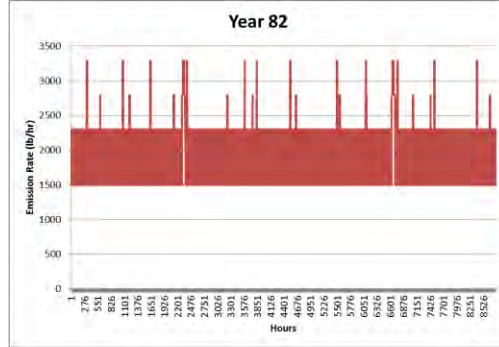
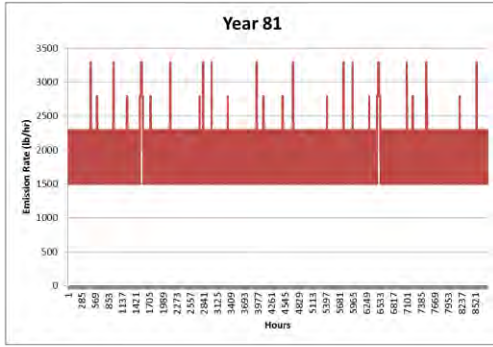


SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



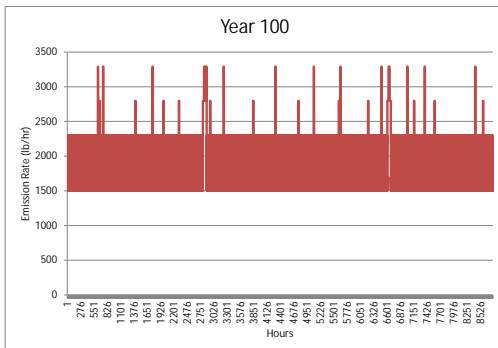
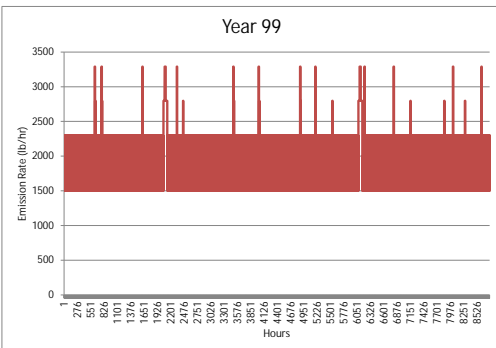
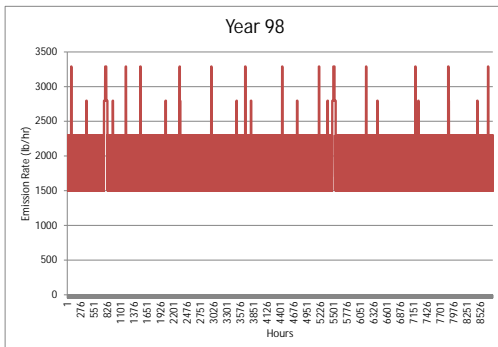
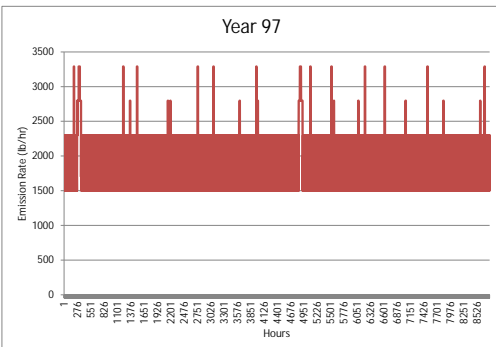
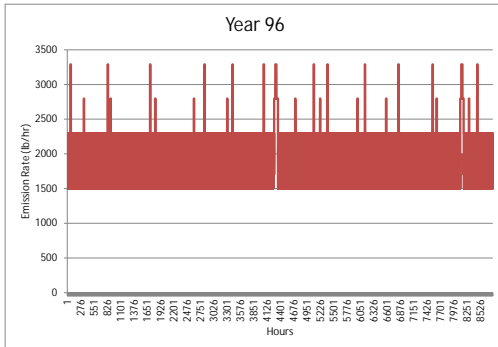
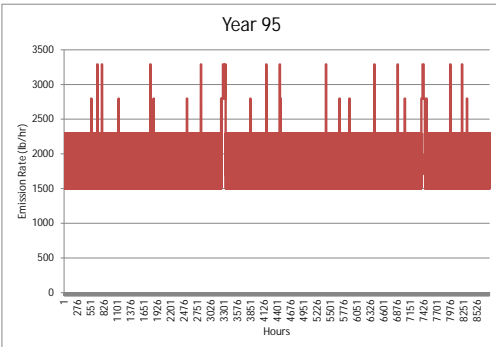
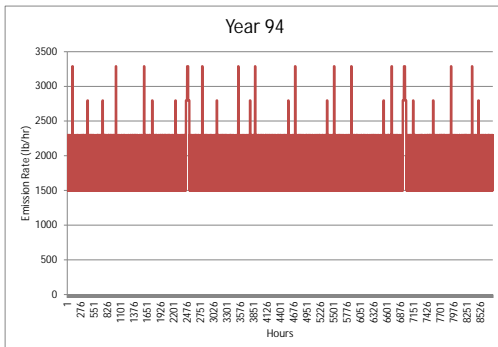
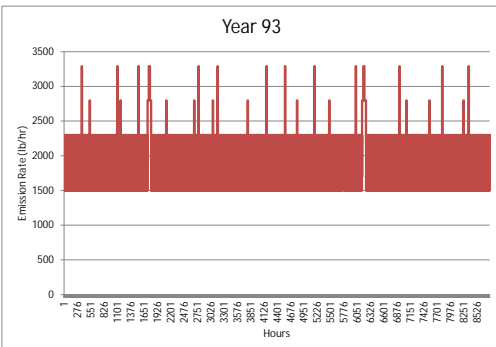
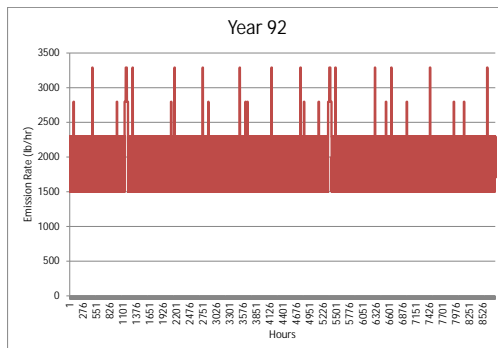
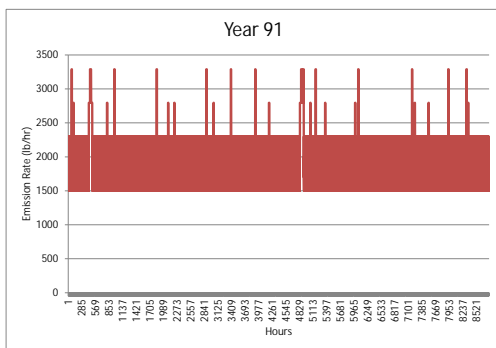


SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area





SO<sub>2</sub> NAAQS Compliance Modeling Report for  
the Anne Arundel and Batimore Counties Non-Attainment Area



## Appendix G

**Table of Highest 5-Year Average 99<sup>th</sup> Percentile Daily  
Maximum SO<sub>2</sub> Concentrations for Case 1**

Model Iteration	5-YR Avg. Design Concentration (µg/m <sup>3</sup> )	Model Iteration	5-YR Avg. Design Concentration (µg/m <sup>3</sup> )	Model Iteration	5-YR Avg. Design Concentration (µg/m <sup>3</sup> )
1	194.3	36	194.32	71	194.54
2	194.53	37	194.35	72	194.51
3	194.48	38	194.61	73	194.53
4	194.57	39	194.4	74	194.27
5	194.4	40	194.3	75	194.52
6	194.38	41	194.39	76	194.43
7	194.64	42	194.41	77	194.56
8	194.34	43	194.56	78	194.42
9	194.47	44	194.4	79	194.47
10	194.59	45	194.34	80	194.49
11	194.3	46	194.46	81	194.34
12	194.6	47	194.59	82	194.44
13	194.28	48	194.44	83	194.66
14	194.55	49	194.34	84	194.32
15	194.33	50	194.34	85	194.48
16	194.64	51	194.38	86	194.41
17	194.69	52	194.56	87	194.92
18	194.43	53	194.47	88	194.3
19	194.31	54	194.56	89	194.45
20	194.55	55	194.62	90	194.6
21	194.32	56	194.46	91	194.54
22	194.45	57	194.4	92	194.44
23	194.71	58	194.58	93	194.43
24	194.41	59	194.66	94	194.51
25	194.37	60	194.38	95	194.43
26	194.45	61	194.49	96	194.27
27	194.61	62	194.48	97	194.65
28	194.4	63	194.39	98	194.52
29	194.51	64	194.5	99	194.4
30	194.42	65	194.46	100	194.5
31	194.54	66	194.39		
32	194.5	67	194.43		
33	194.31	68	194.45		
34	194.45	69	194.78		
35	194.52	70	194.51		

## Appendix H

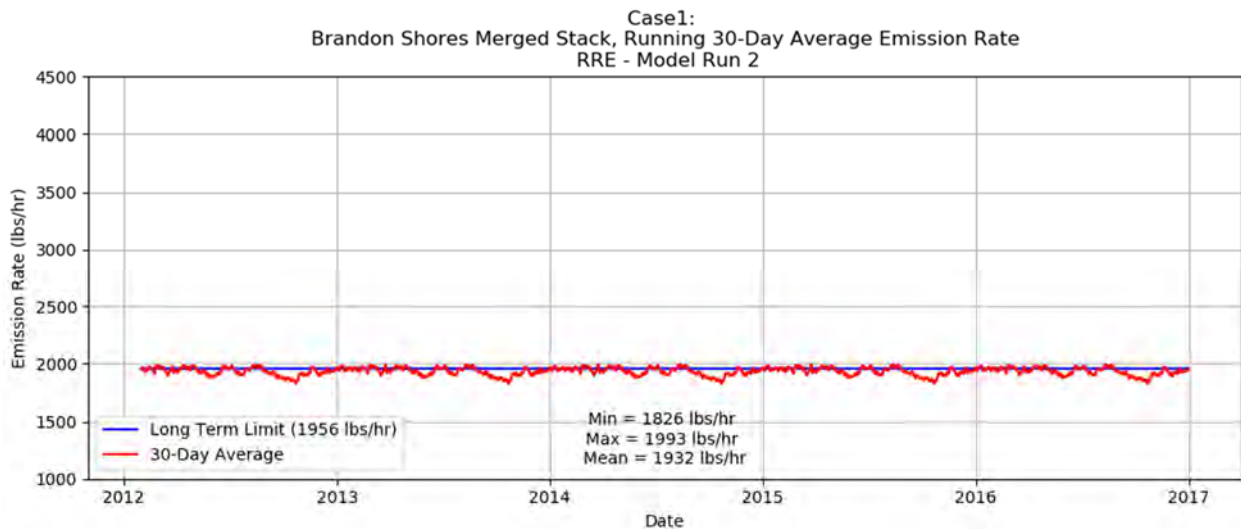
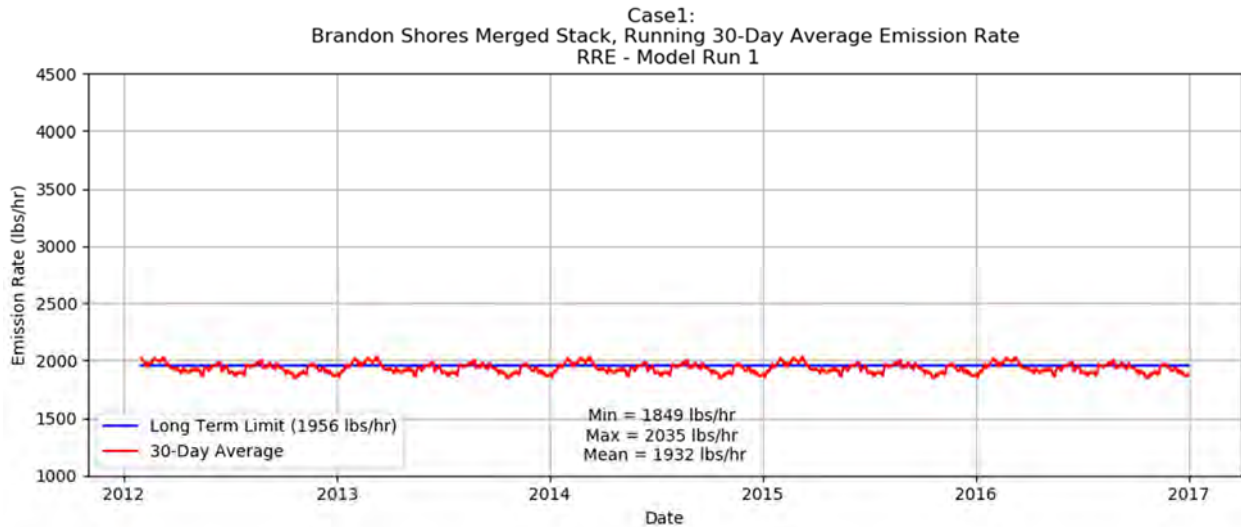
**Table of Highest 5-Year Average 99<sup>th</sup> Percentile Daily  
Maximum SO<sub>2</sub> Concentrations for Case 2**

Model Iteration	5-YR Avg. Design Concentration (µg/m <sup>3</sup> )	Model Iteration	5-YR Avg. Design Concentration (µg/m <sup>3</sup> )	Model Iteration	5-YR Avg. Design Concentration (µg/m <sup>3</sup> )
1	194.39	36	194.41	71	194.17
2	194.26	37	194.13	72	194.39
3	194.20	38	194.36	73	194.28
4	194.58	39	194.31	74	194.37
5	194.19	40	194.40	75	194.39
6	194.30	41	194.32	76	194.45
7	194.50	42	194.35	77	194.34
8	194.47	43	194.30	78	194.41
9	194.25	44	194.38	79	194.21
10	194.32	45	194.30	80	194.30
11	194.23	46	194.44	81	194.16
12	194.29	47	194.44	82	194.55
13	194.28	48	194.22	83	194.25
14	194.35	49	194.28	84	194.44
15	194.36	50	194.30	85	194.20
16	194.23	51	194.32	86	194.48
17	194.26	52	194.35	87	194.37
18	194.32	53	194.30	88	194.17
19	194.26	54	194.38	89	194.21
20	194.28	55	194.30	90	194.41
21	194.28	56	194.44	91	194.26
22	194.22	57	194.44	92	194.31
23	194.28	58	194.22	93	194.26
24	194.39	59	194.28	94	194.15
25	194.41	60	194.30	95	194.43
26	194.28	61	194.40	96	194.17
27	194.55	62	194.22	97	196.23
28	194.34	63	194.40	98	194.26
29	194.32	64	194.47	99	194.26
30	194.35	65	194.30	100	194.42
31	194.38	66	194.25		
32	194.17	67	194.15		
33	194.34	68	194.23		
34	194.23	69	194.33		
35	194.16	70	194.52		

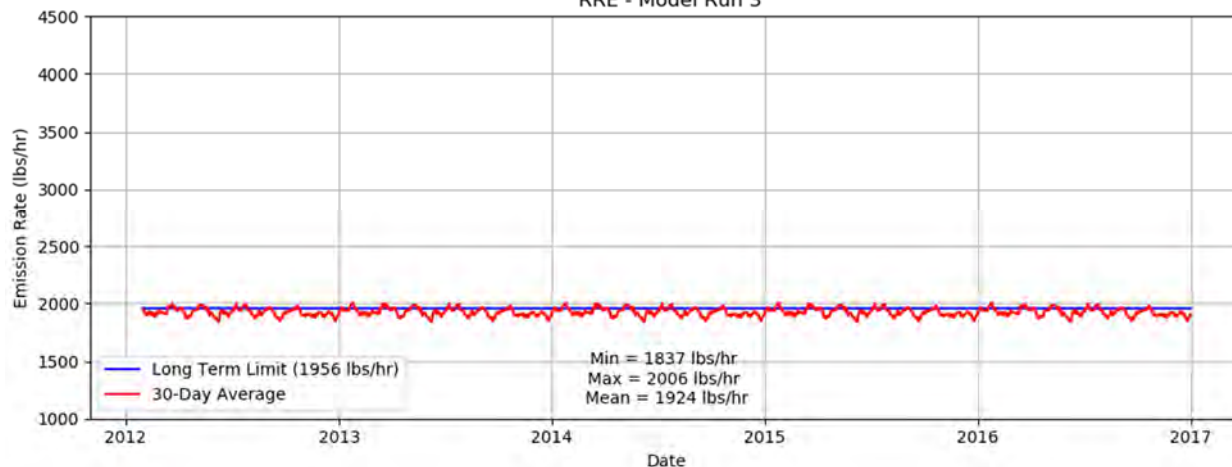
## Appendix C-2b

### Graphs of Five-Year Modeling Runs, 2012-2017 Brandon Shores & Wagner Generating Stations

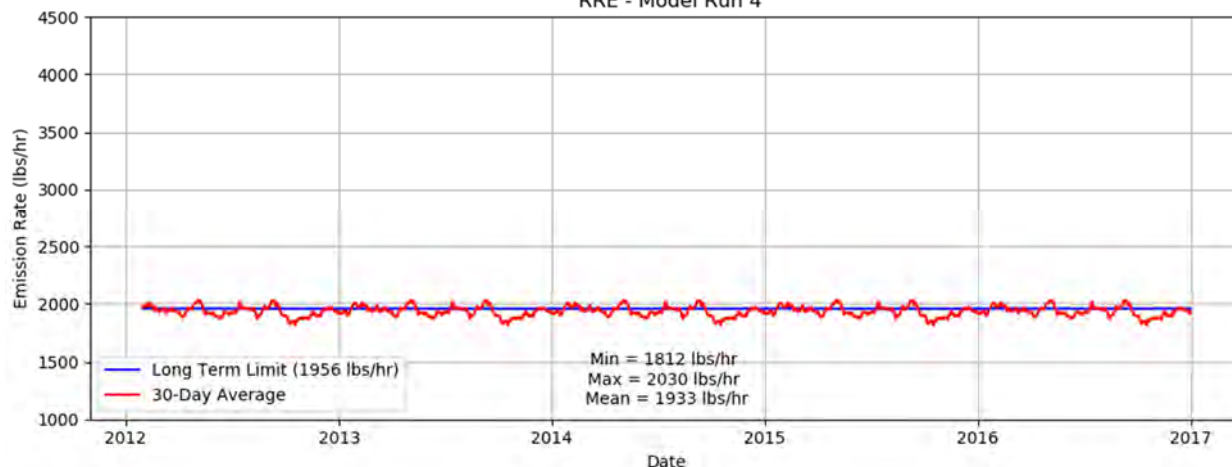
#### Brandon Shores Generating Station, Case 1



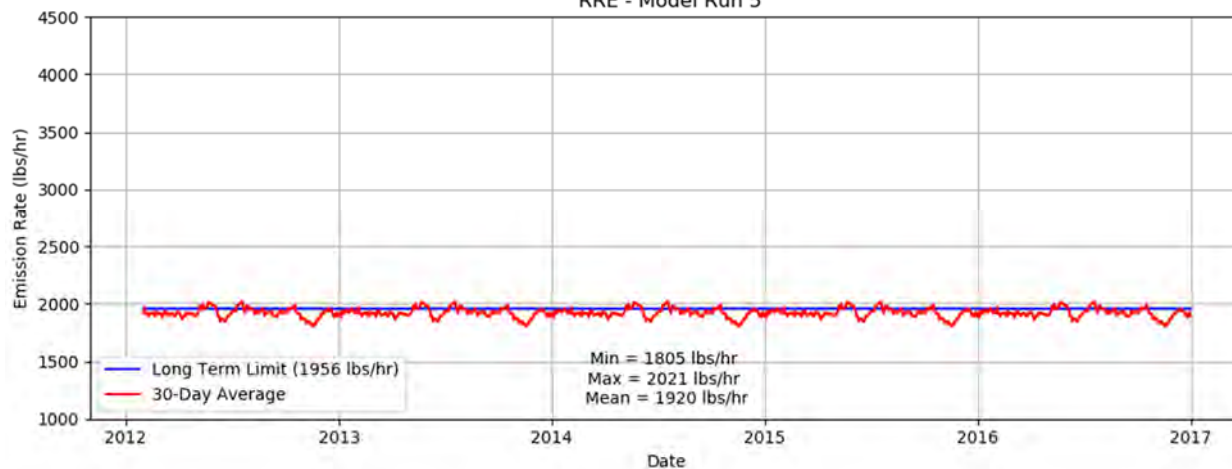
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 3



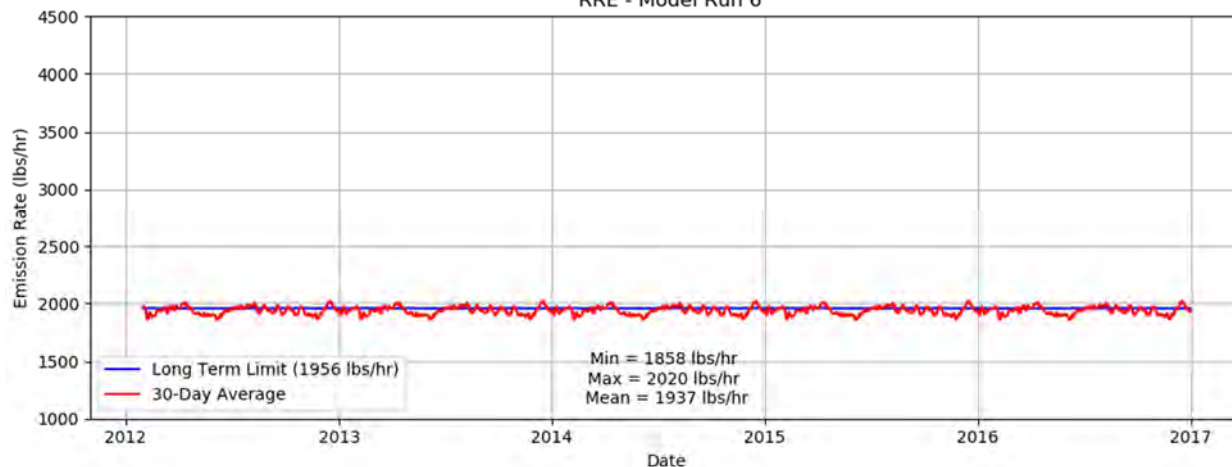
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 4



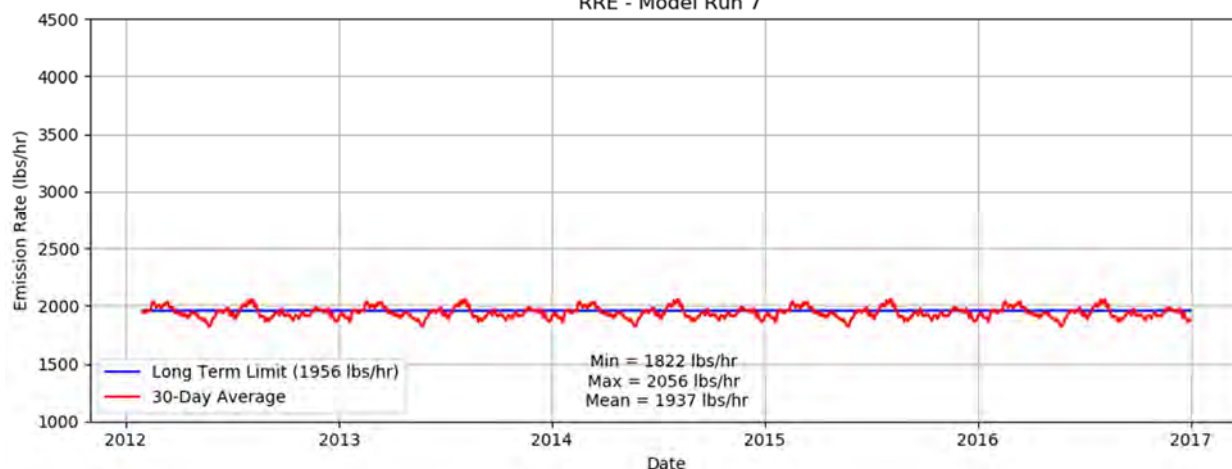
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 5



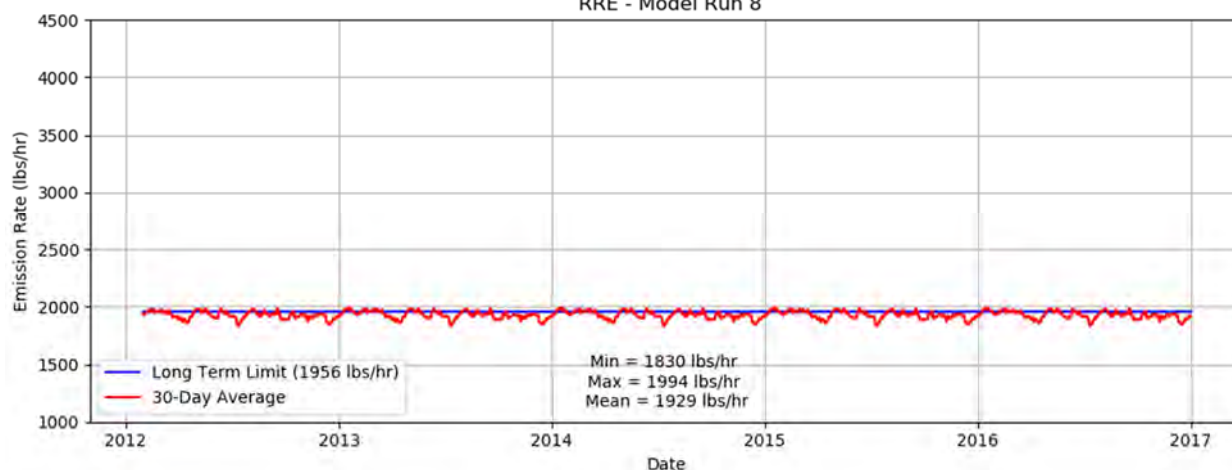
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 6



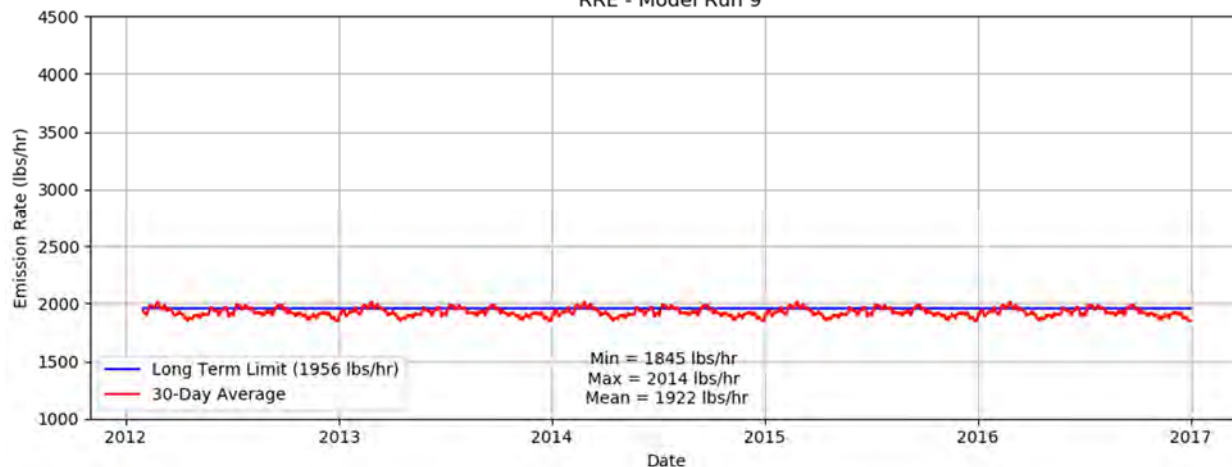
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 7



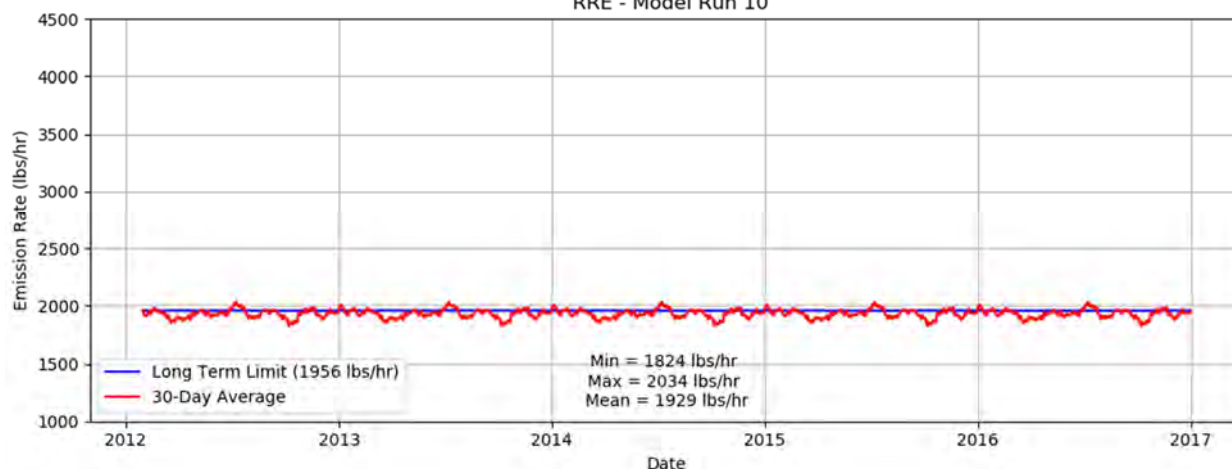
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 8



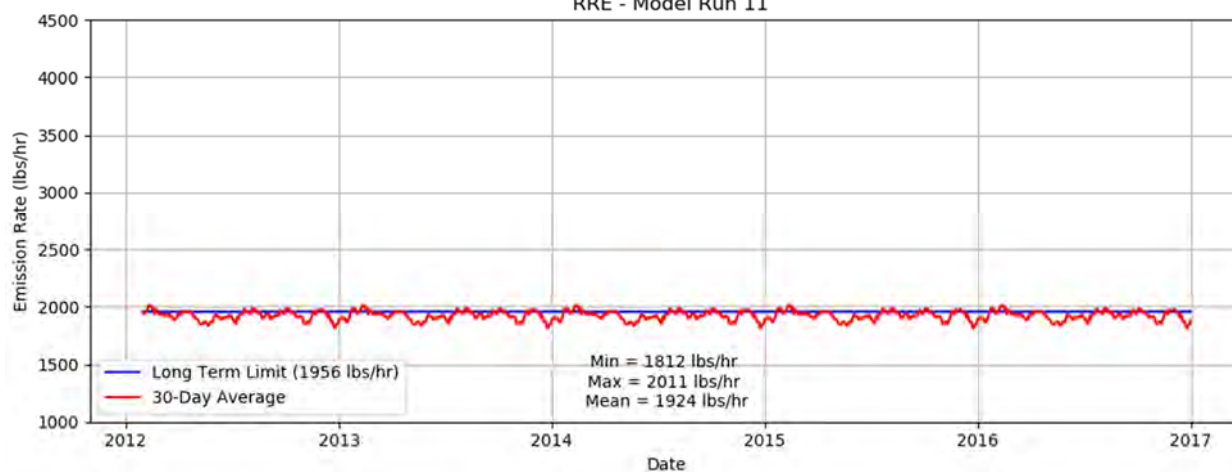
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 9



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 10

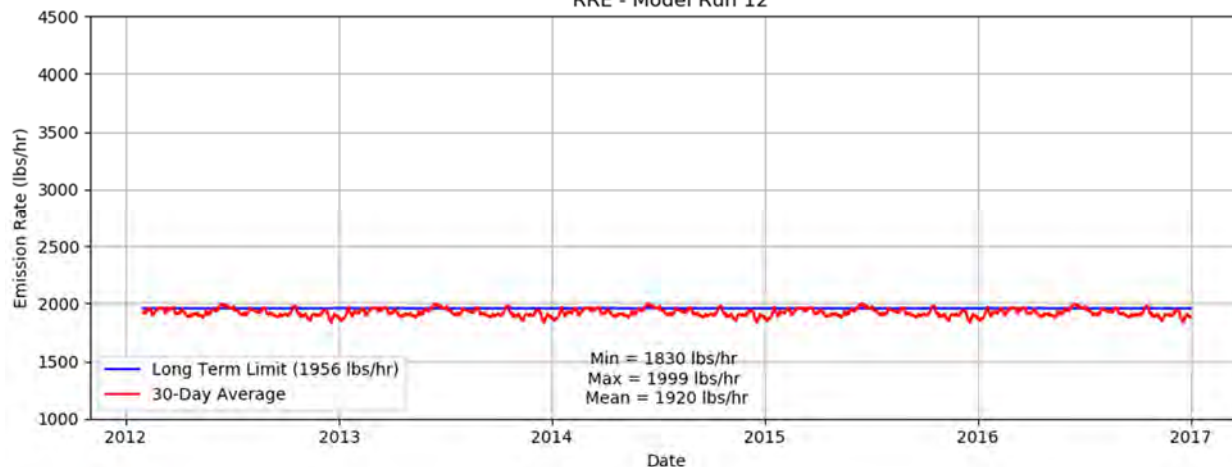


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 11

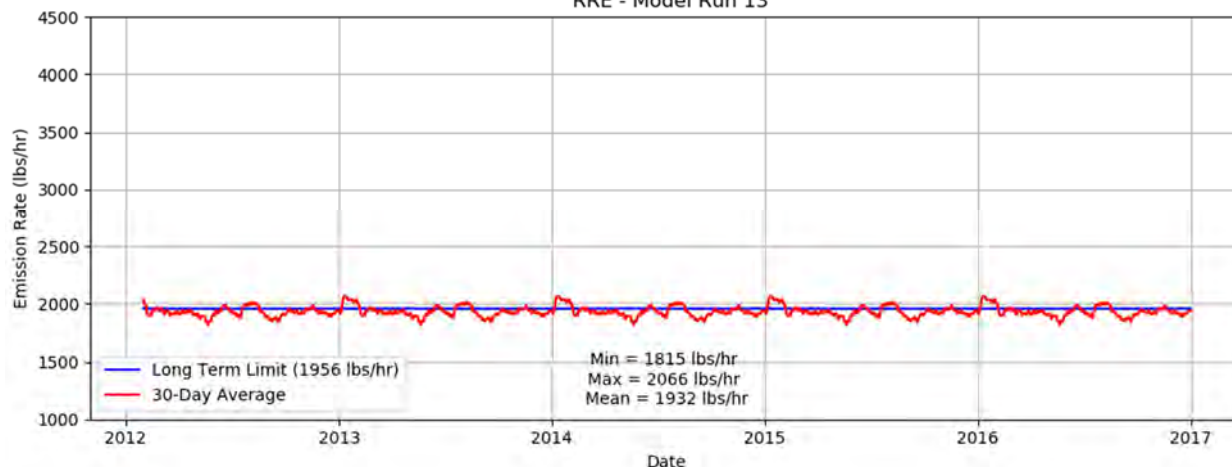




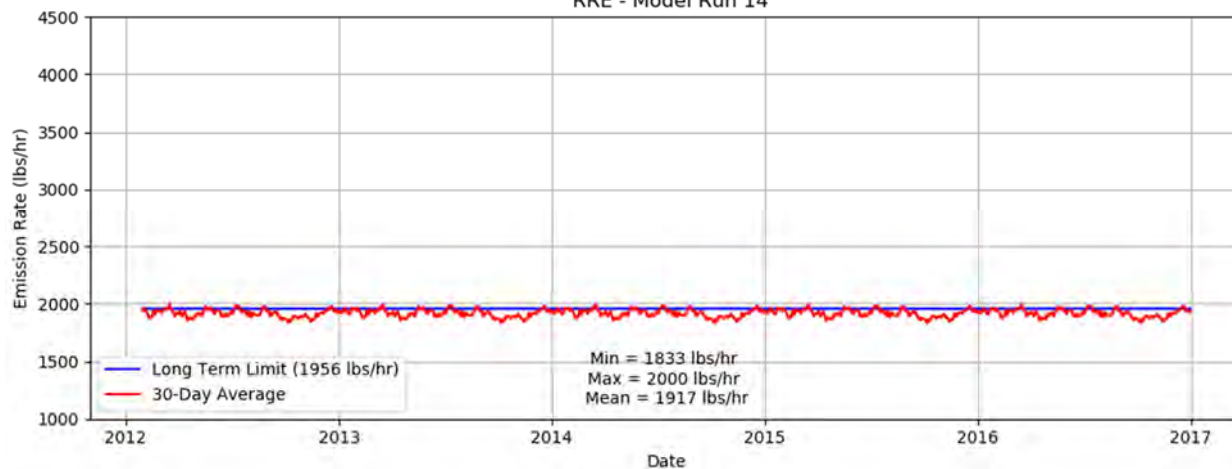
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 12



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 13

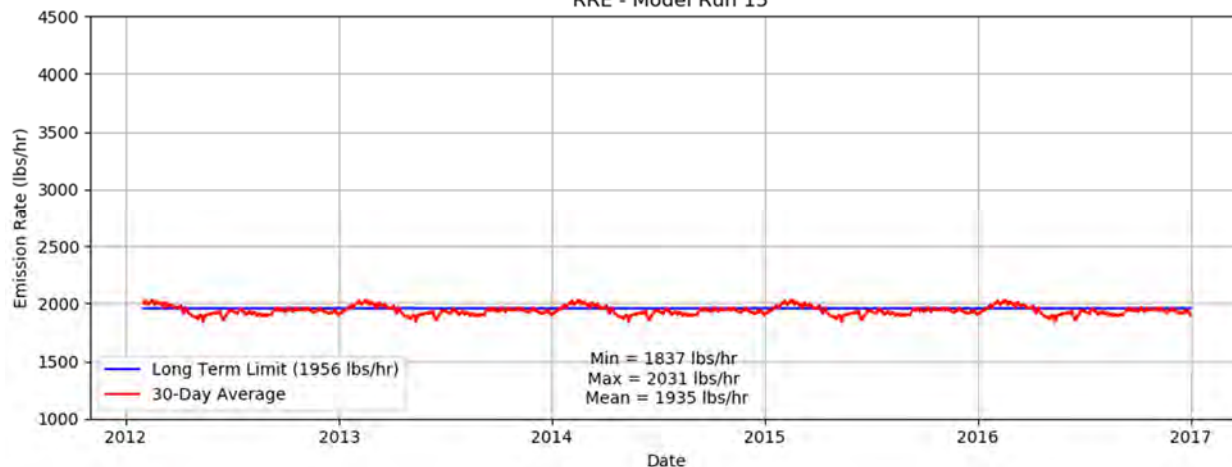


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 14

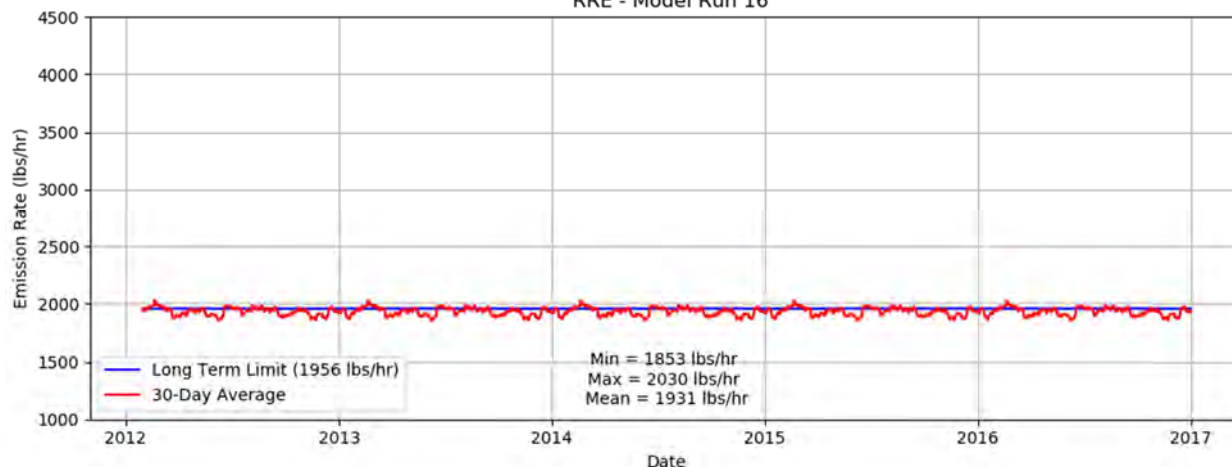




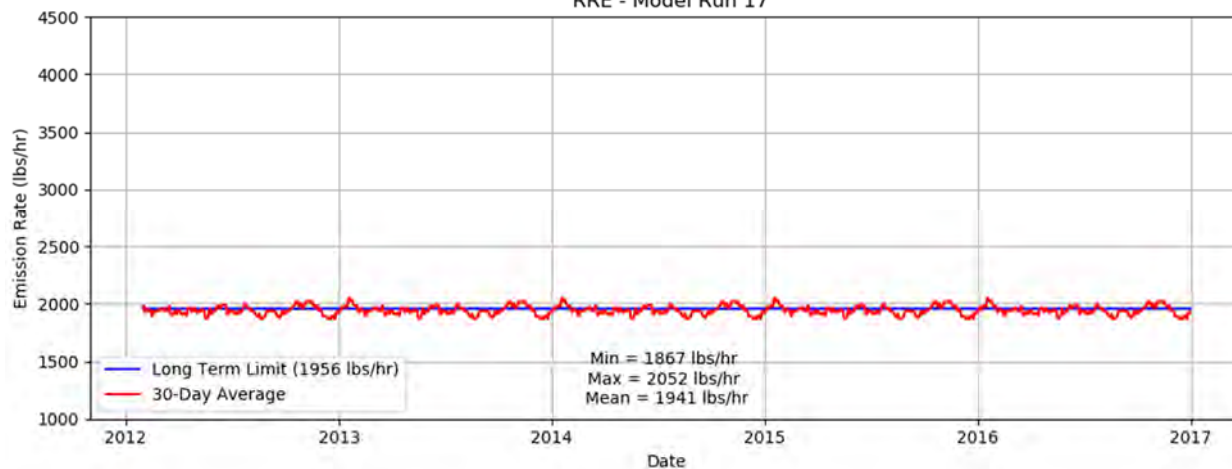
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 15



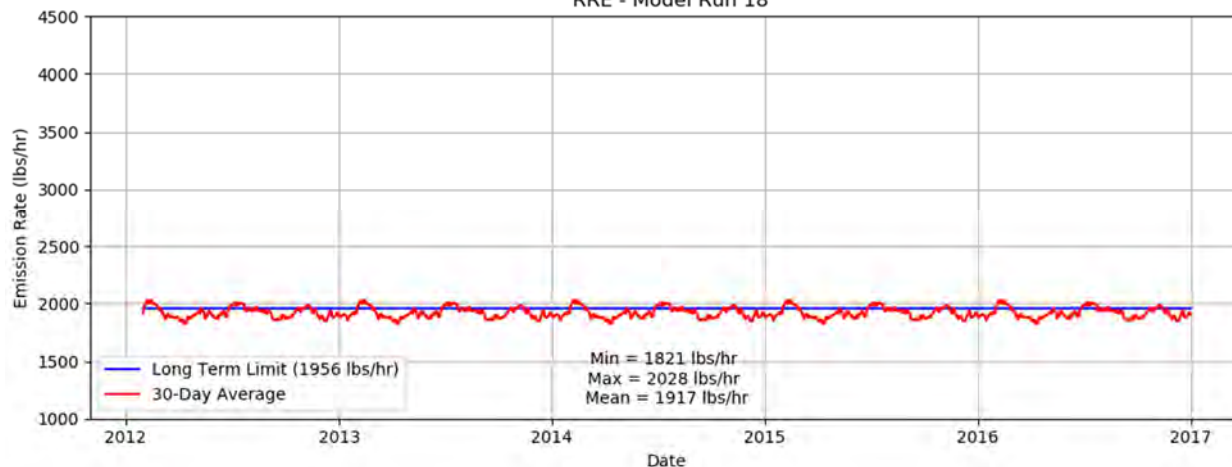
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 16



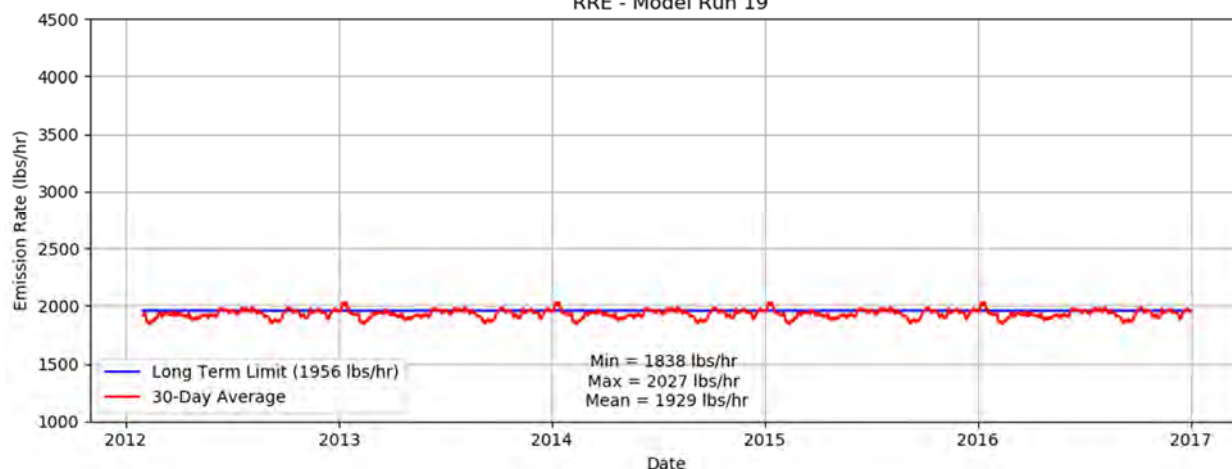
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 17



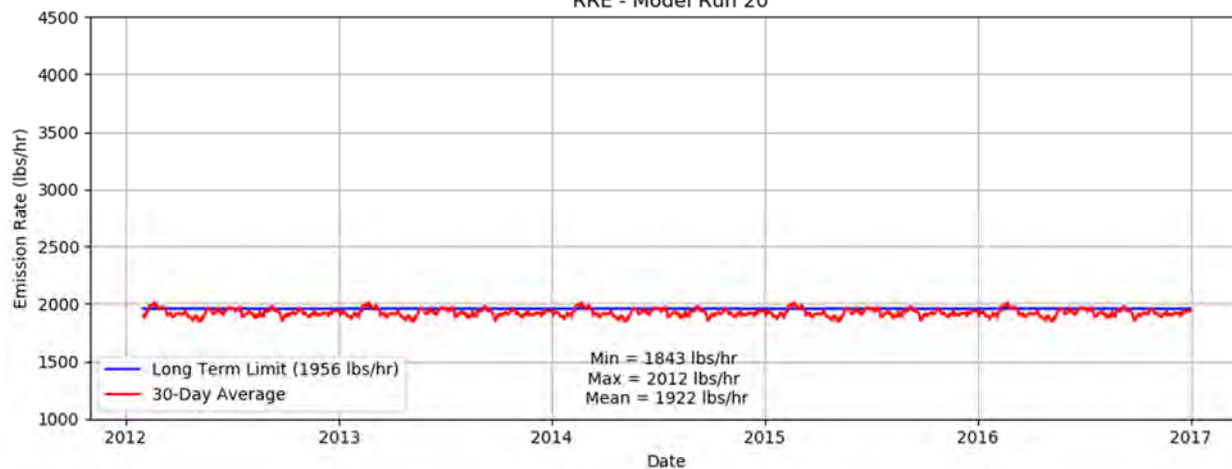
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 18



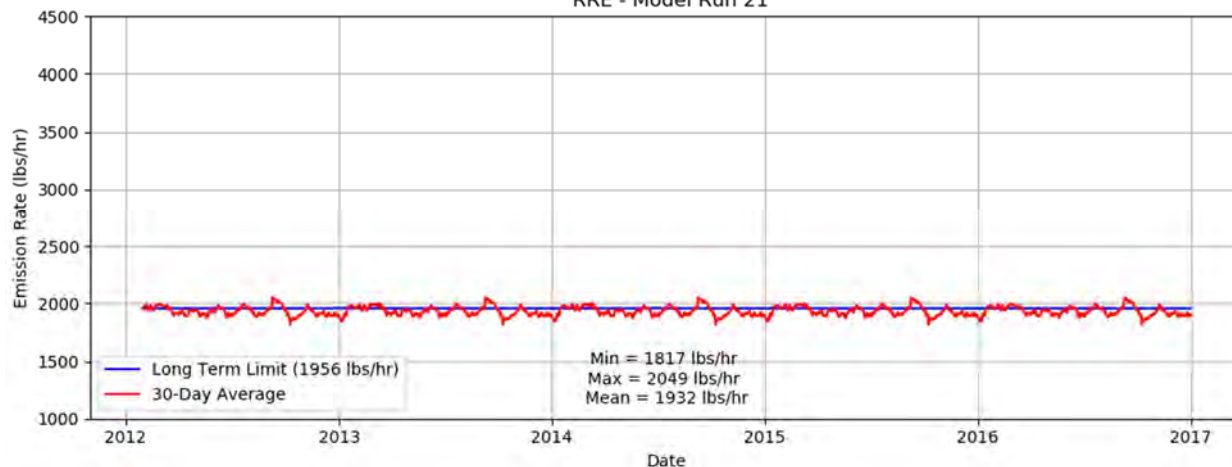
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 19



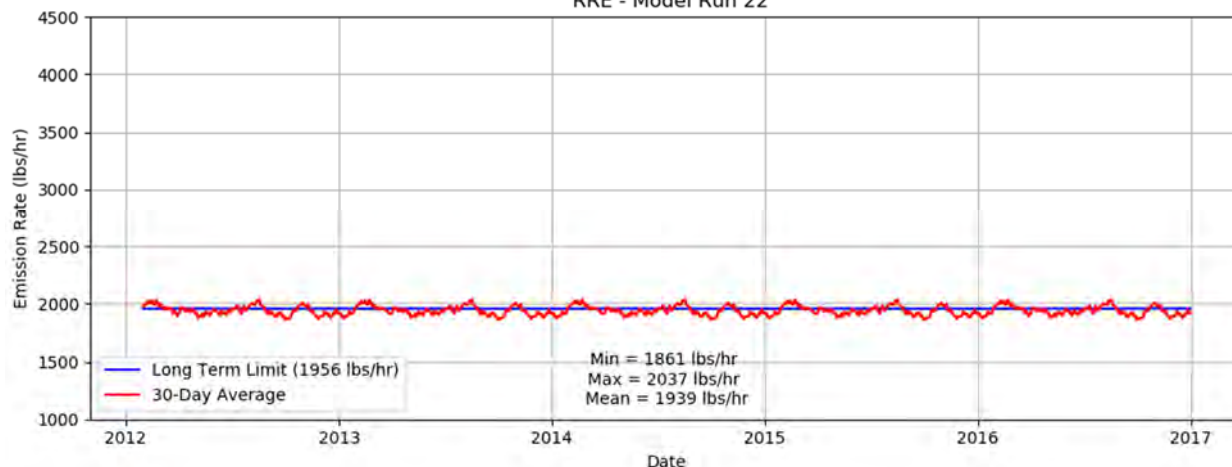
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 20



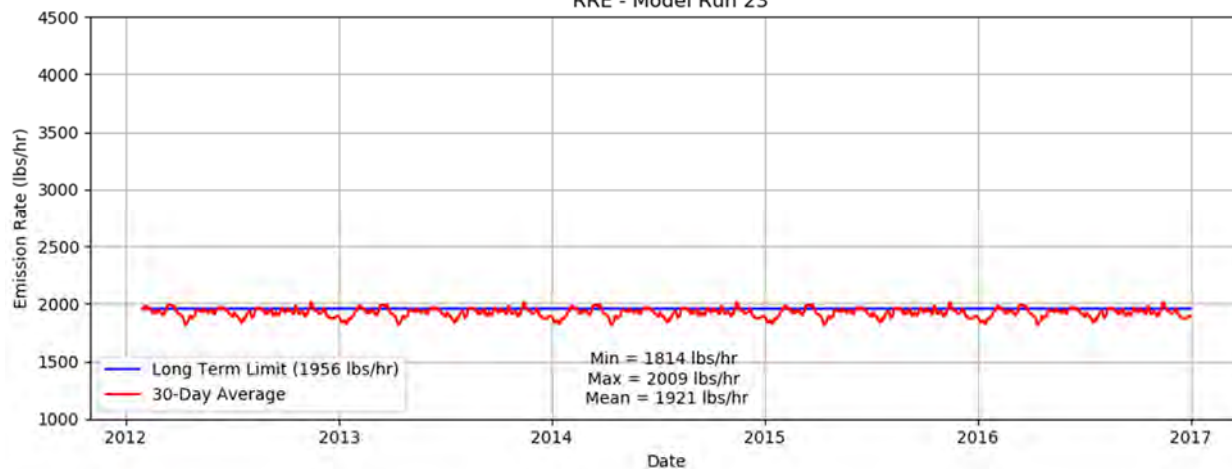
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 21



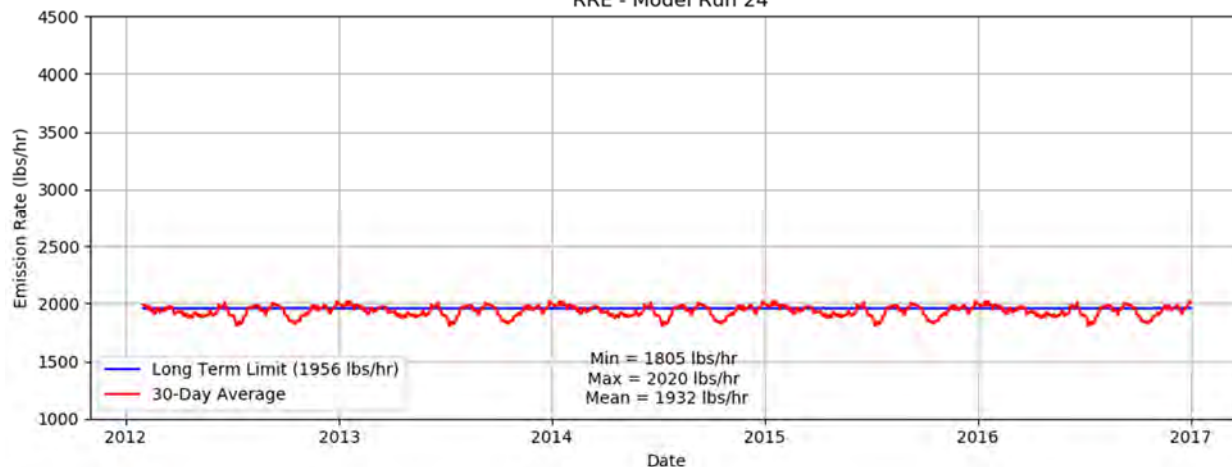
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 22



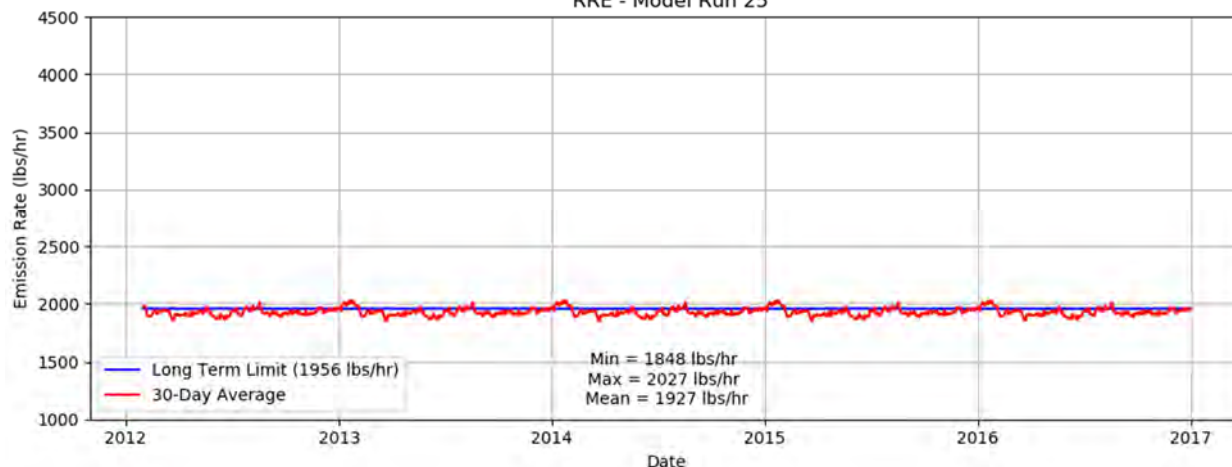
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 23



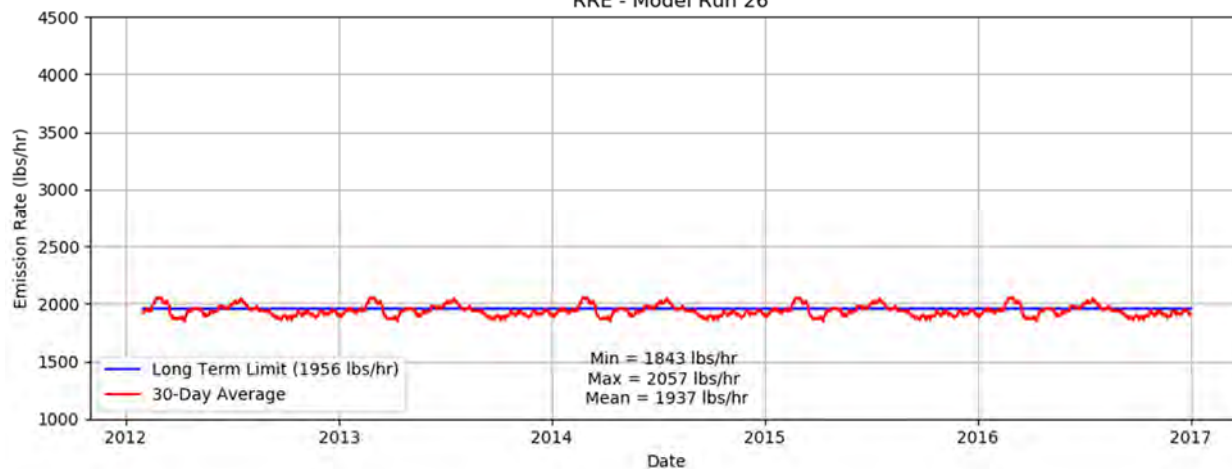
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 24



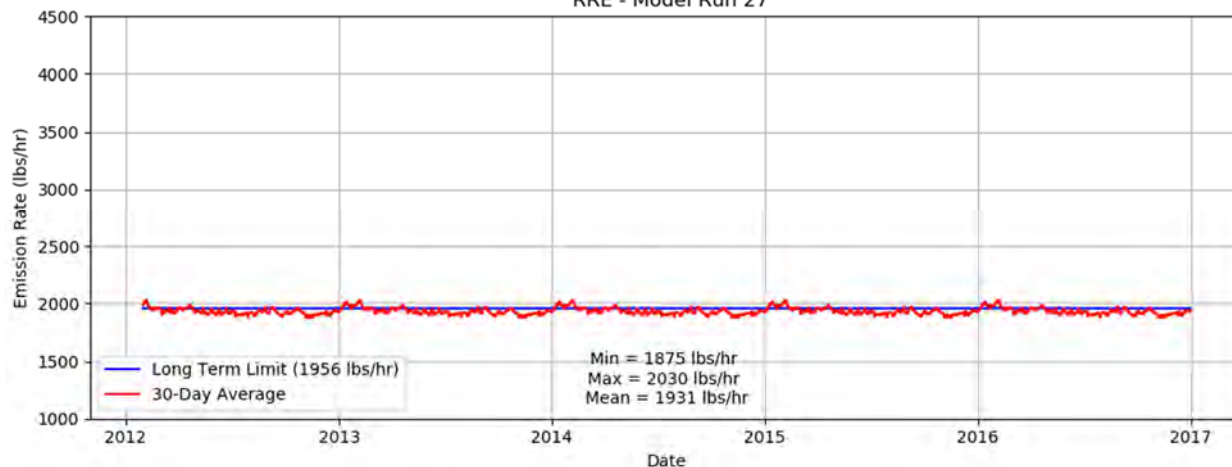
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 25



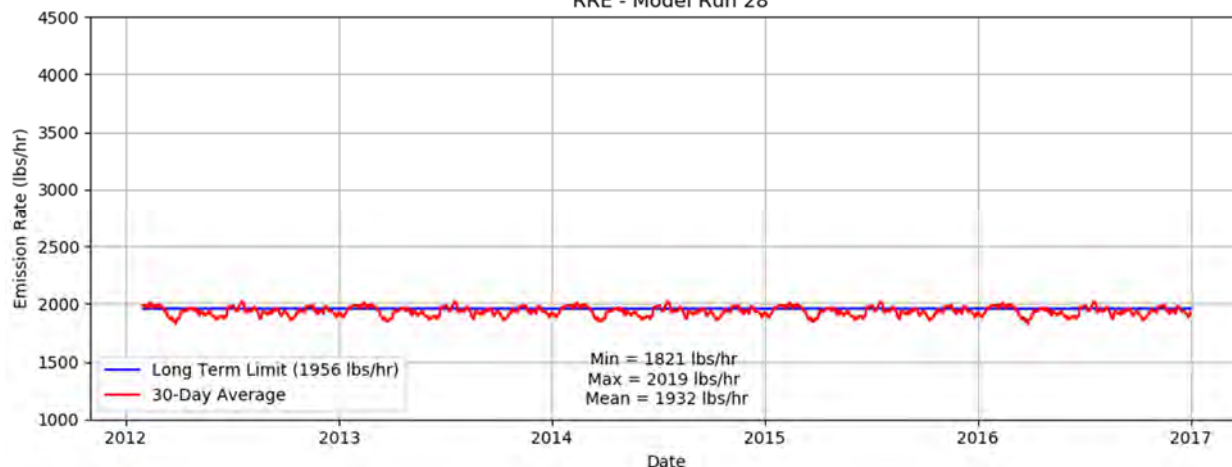
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 26



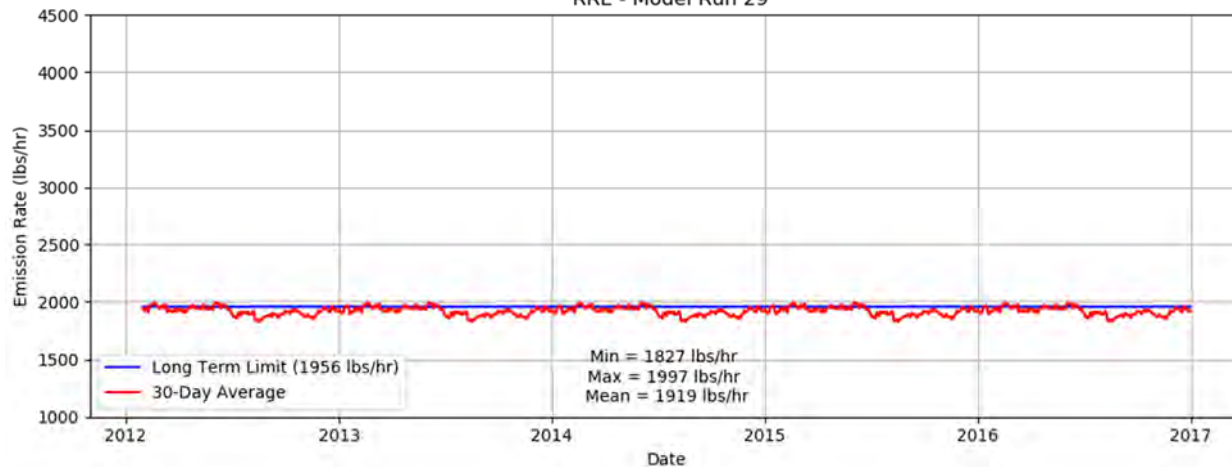
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 27



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 28

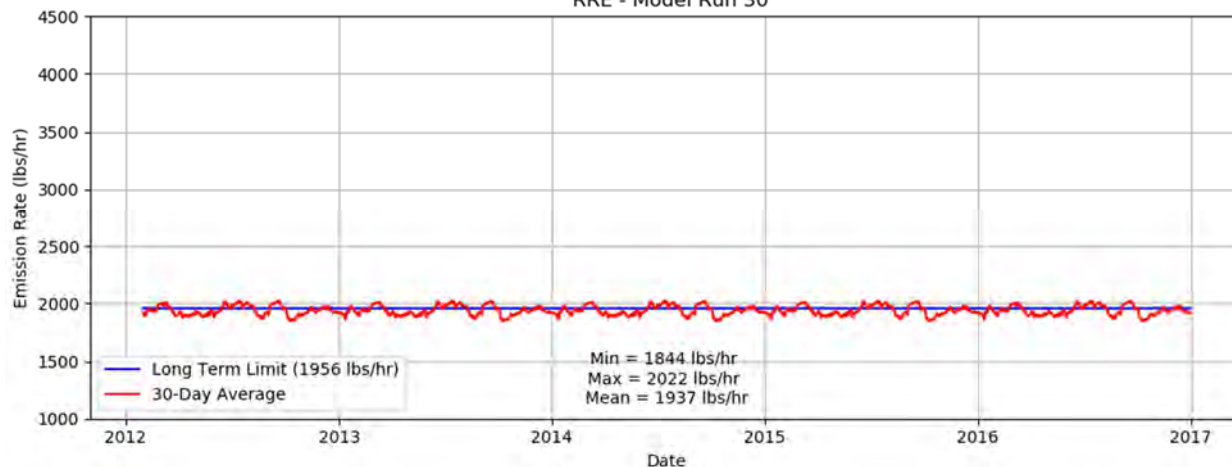


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 29

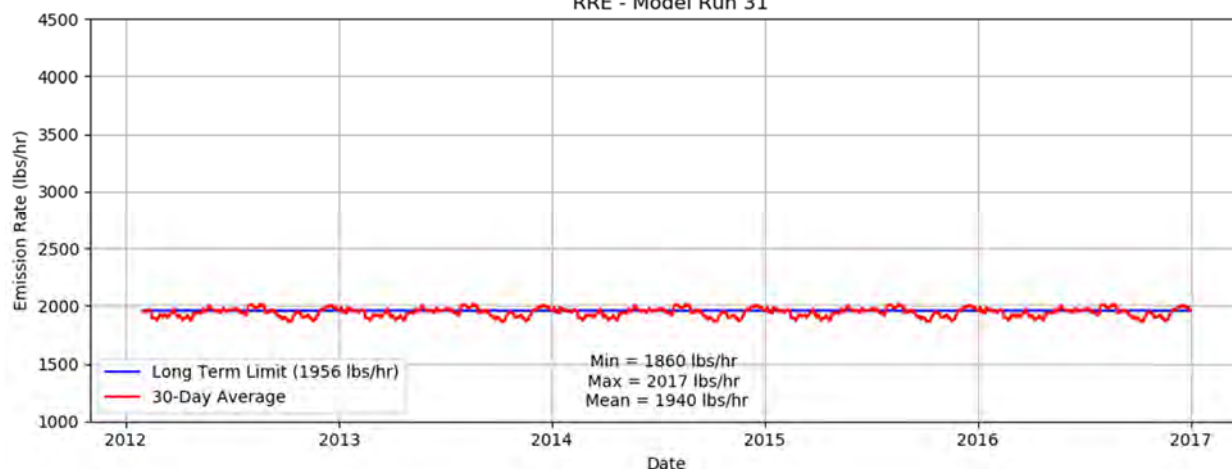




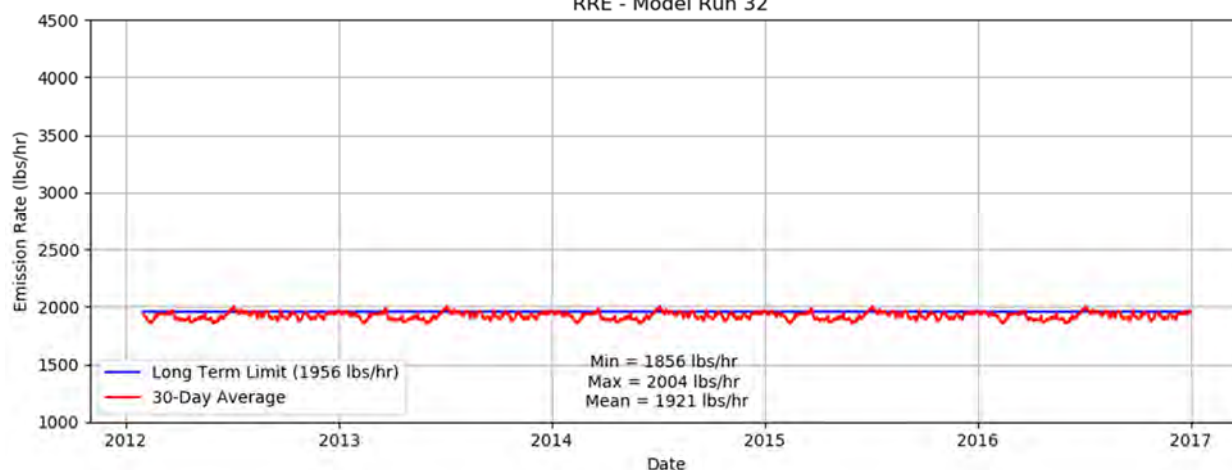
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 30



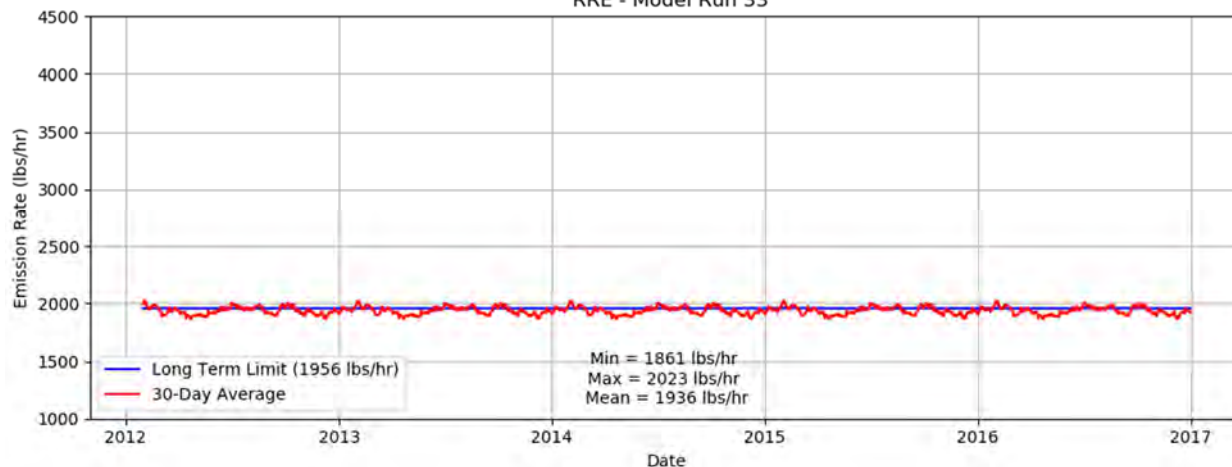
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 31



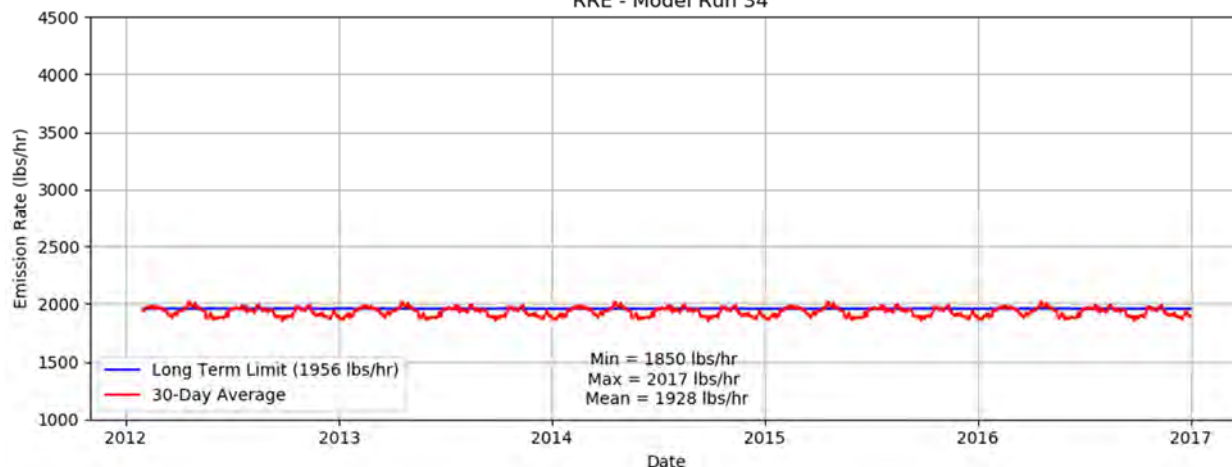
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 32



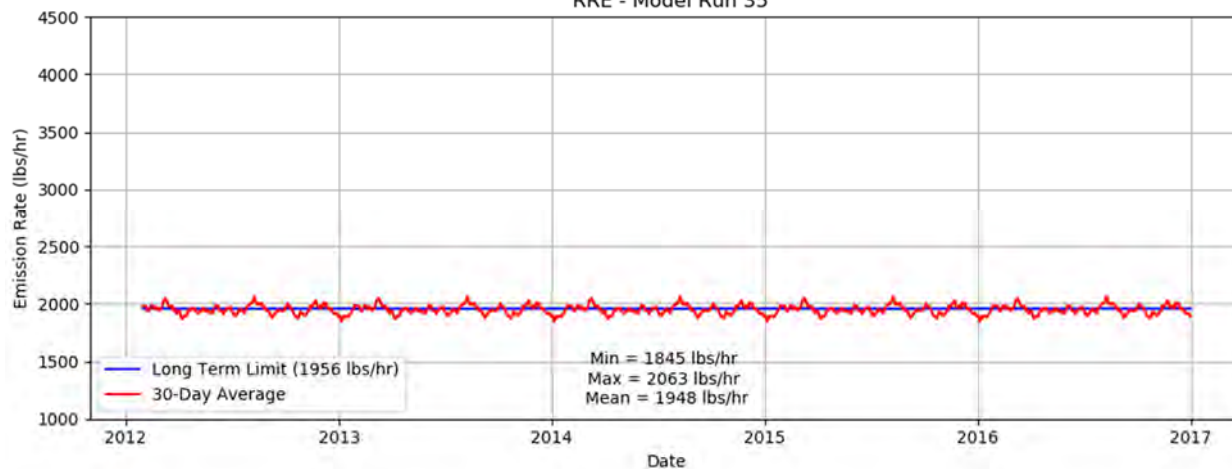
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 33



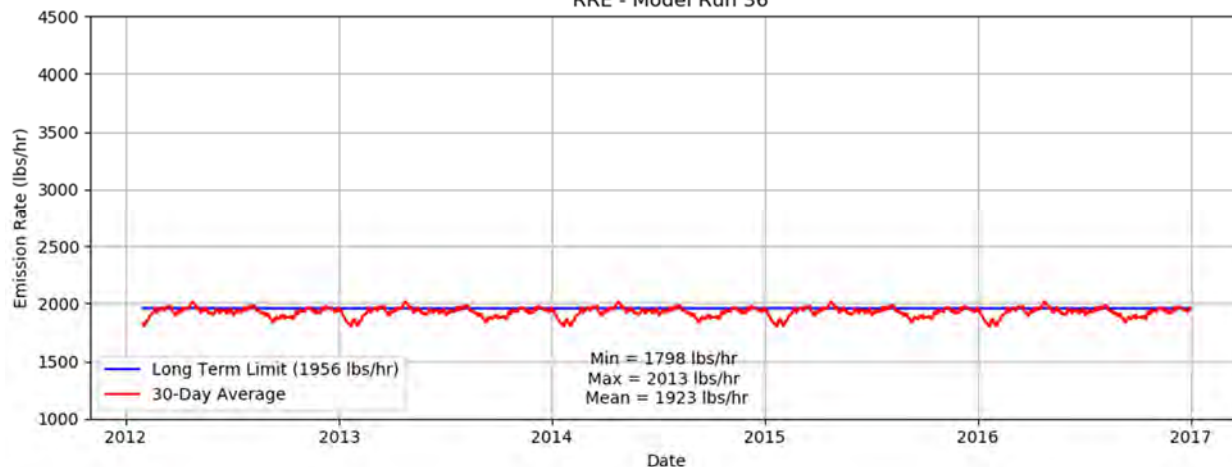
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 34



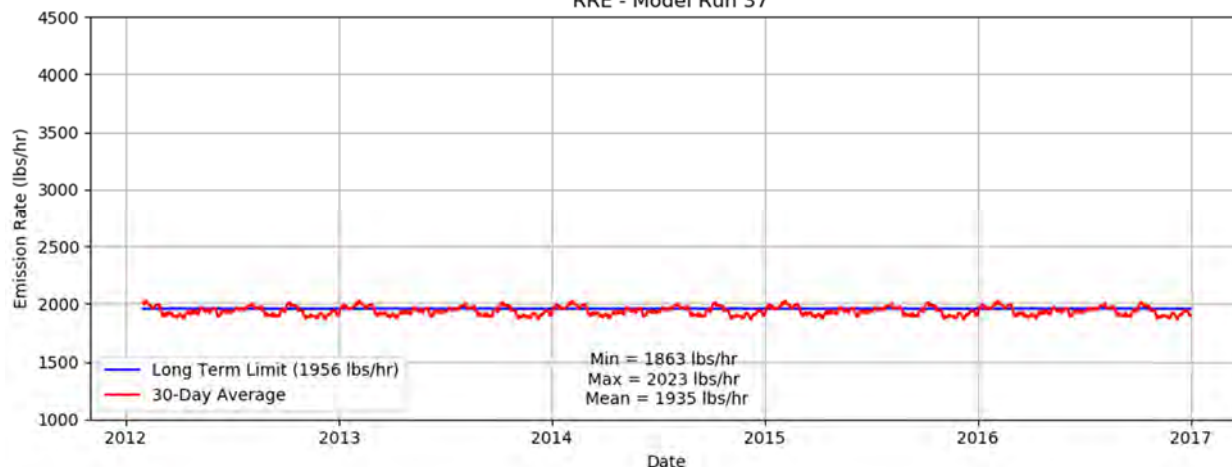
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 35



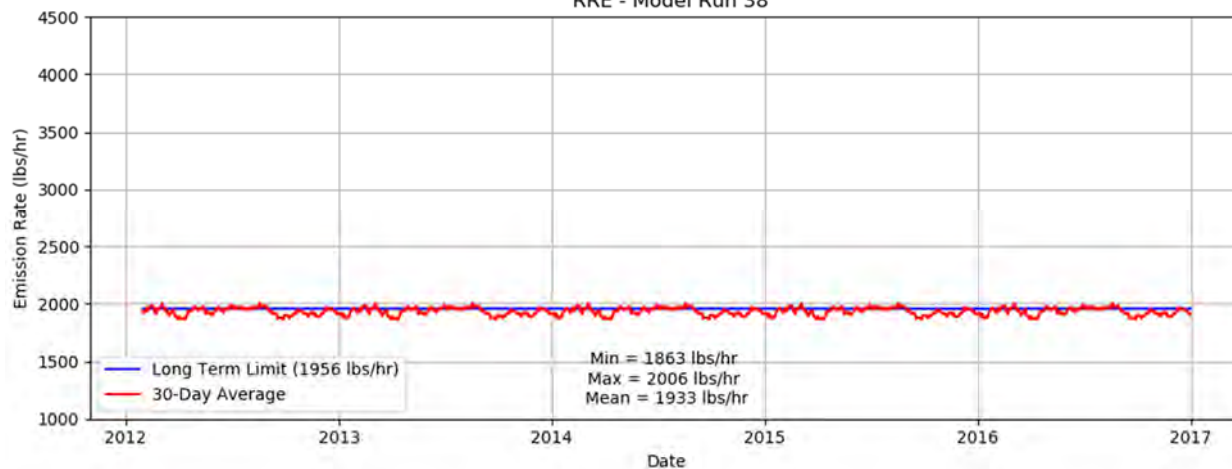
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 36



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 37

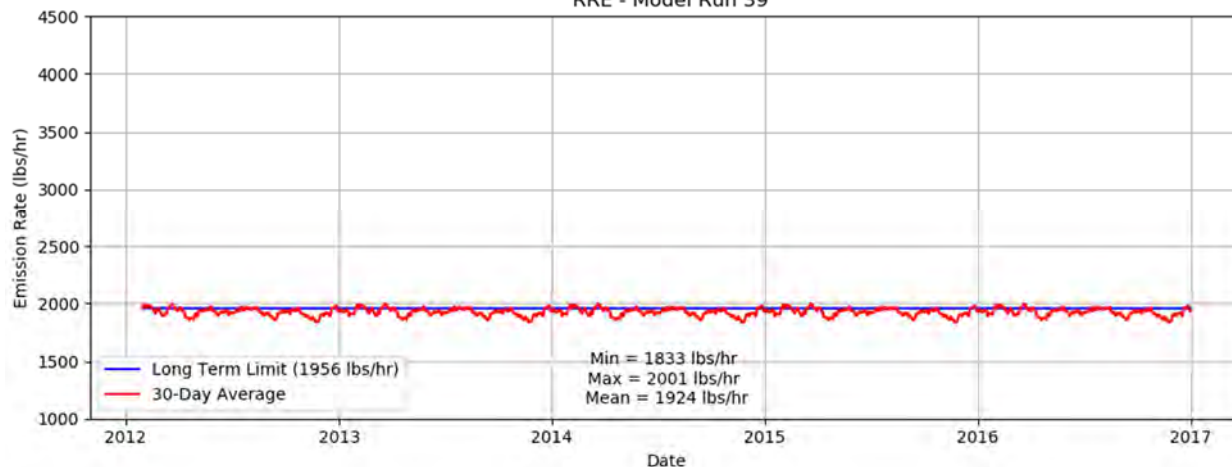


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 38

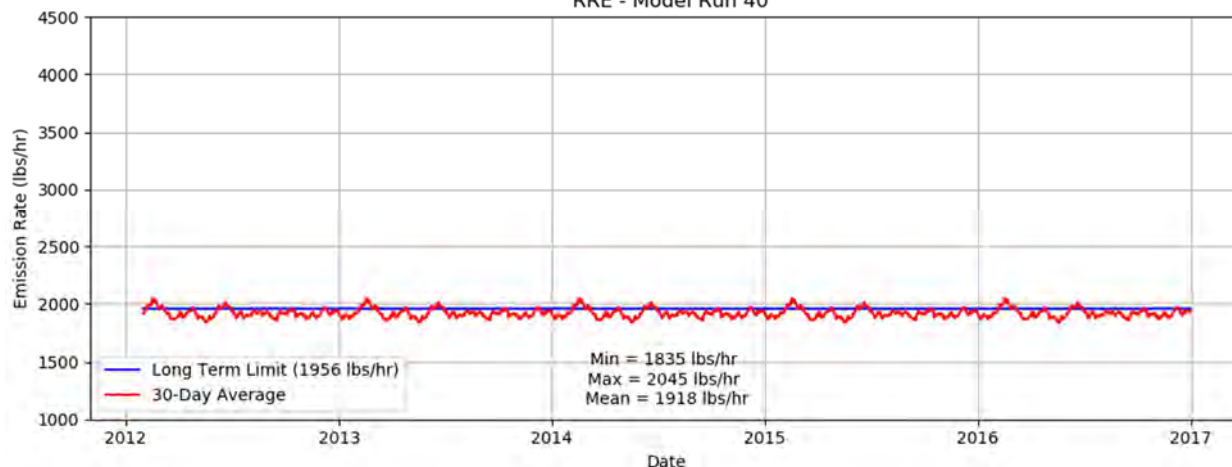




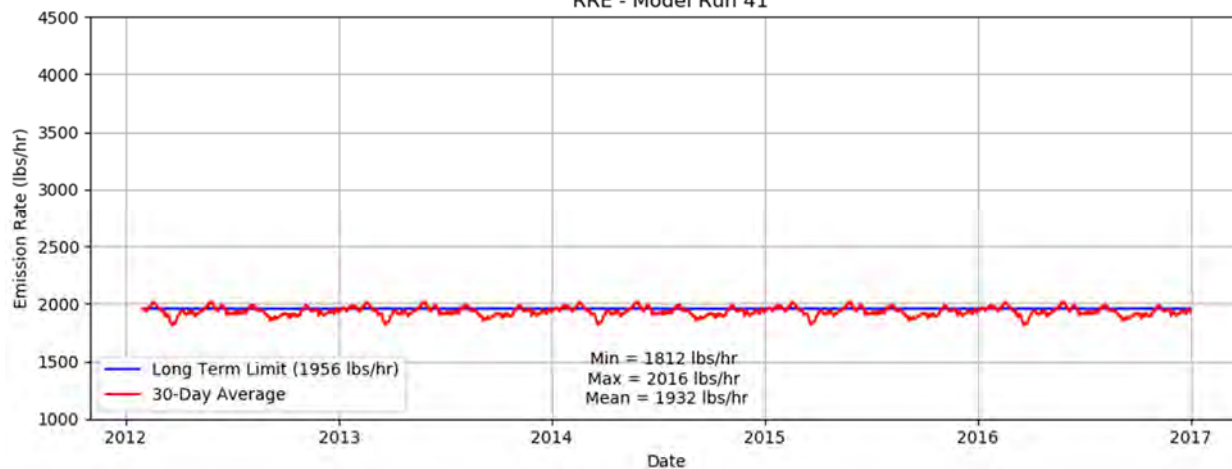
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 39



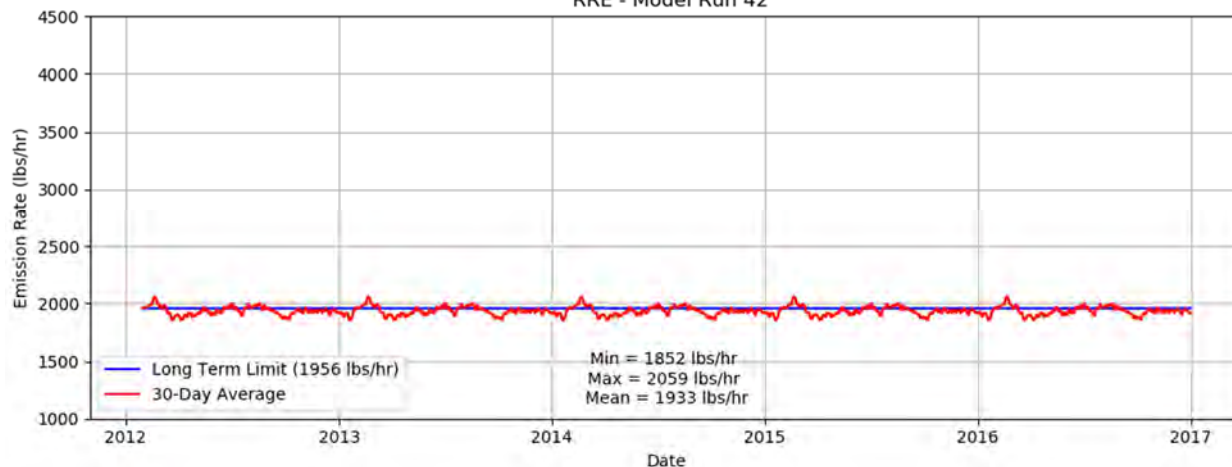
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 40



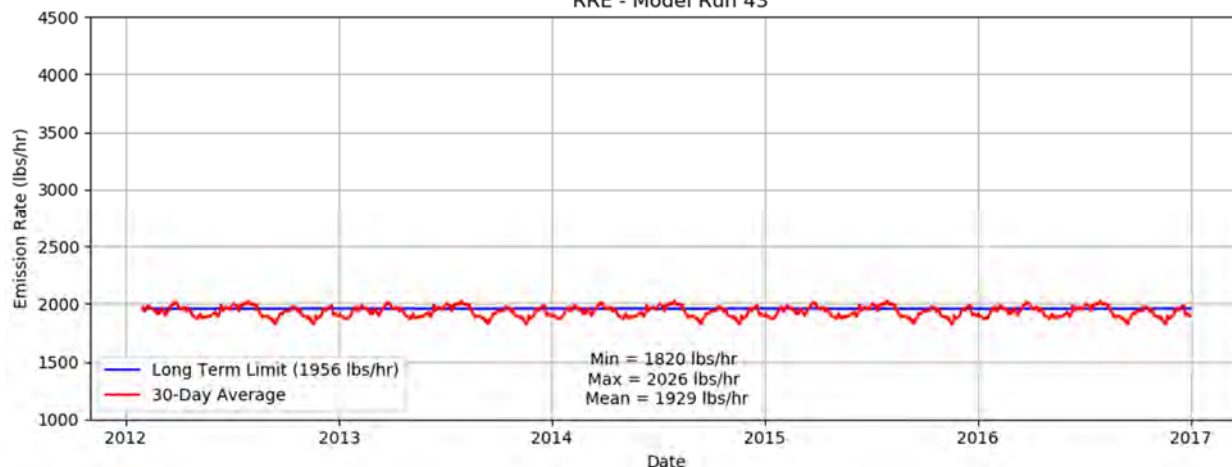
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 41



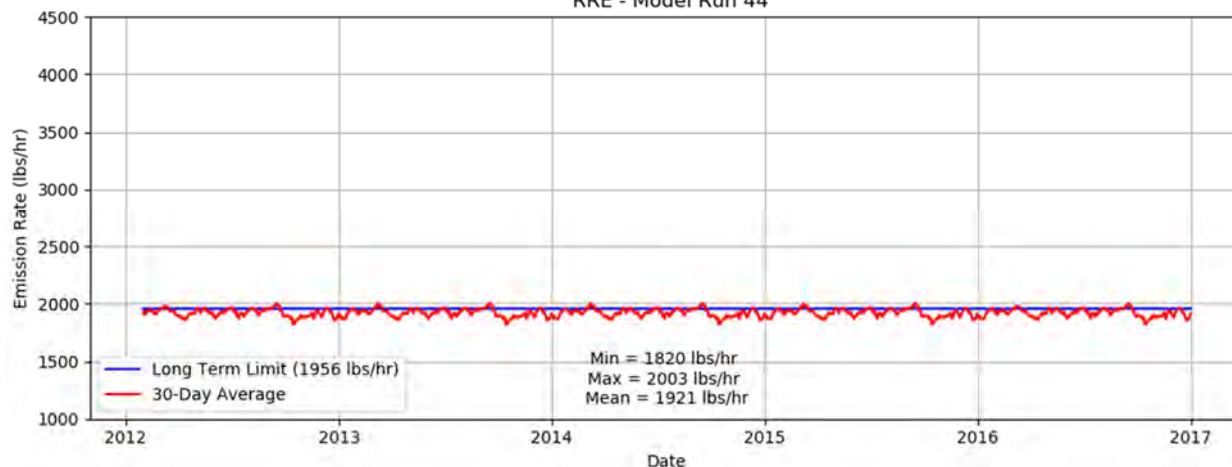
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 42



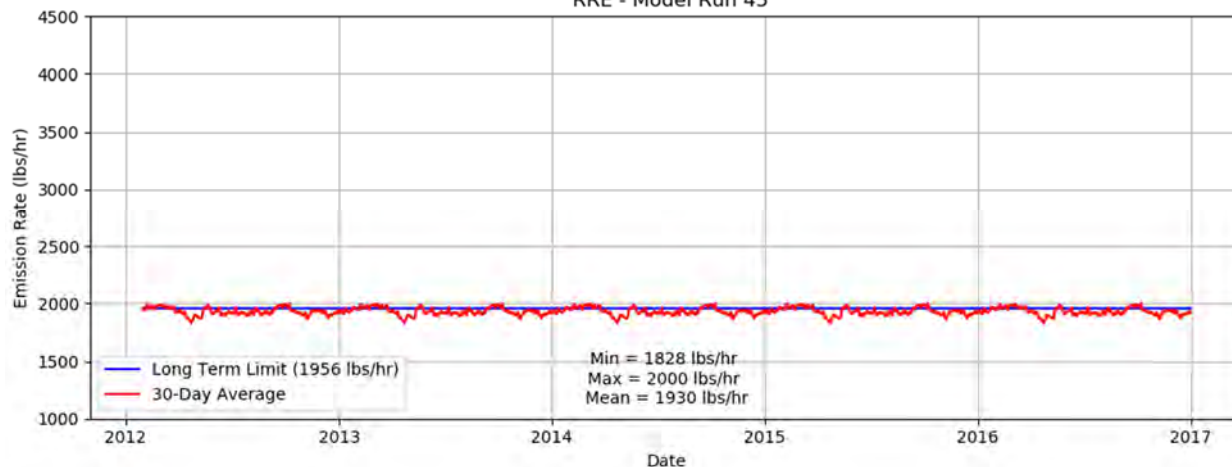
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 43



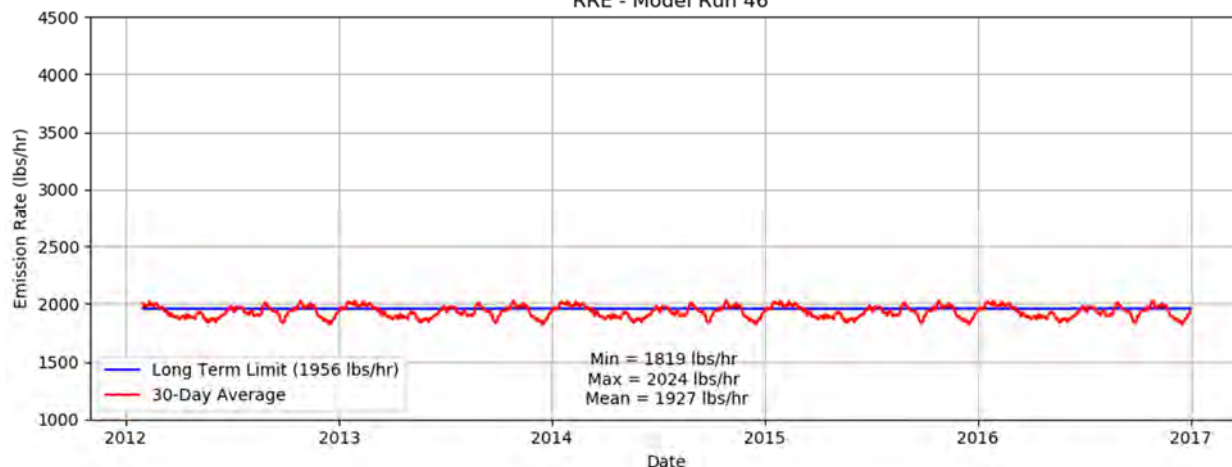
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 44



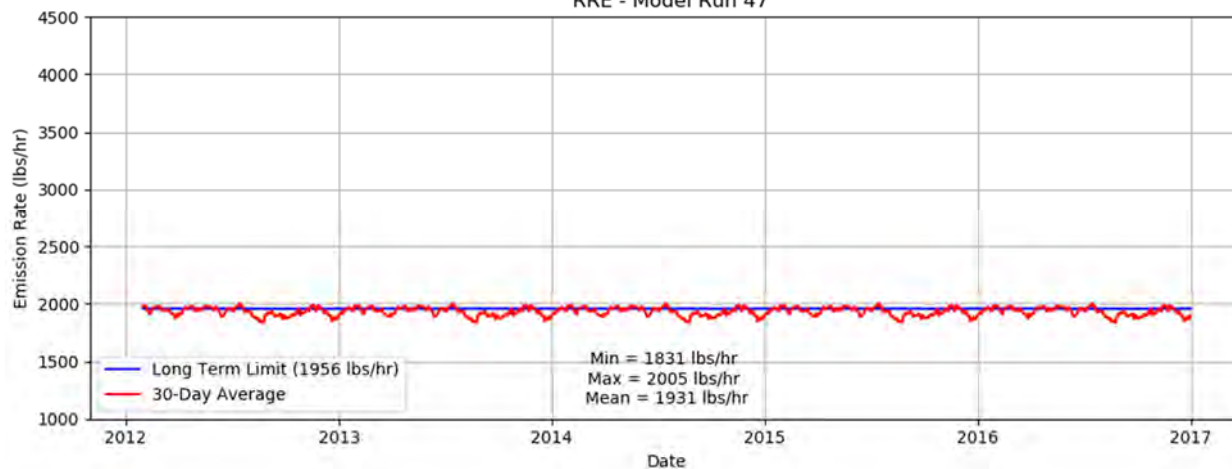
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 45



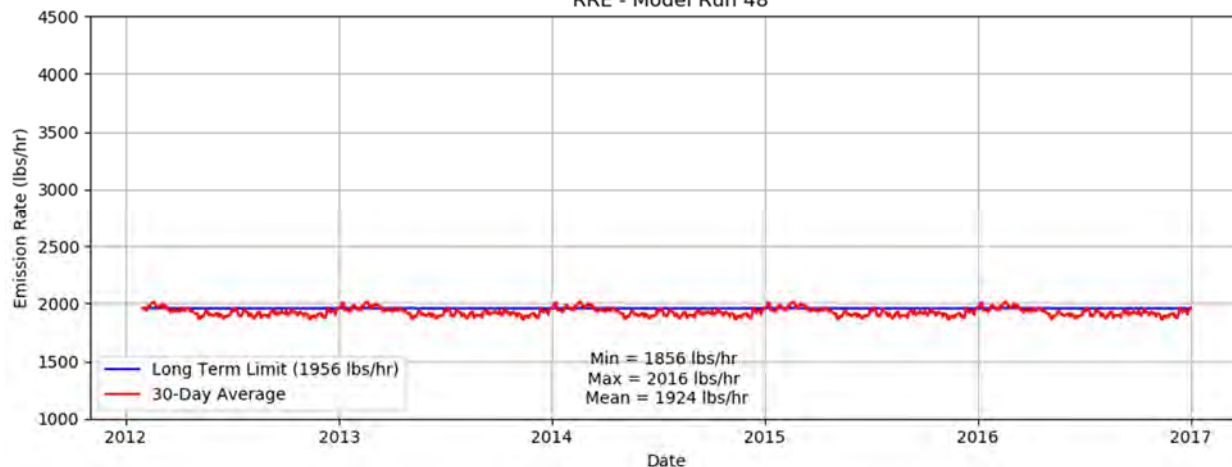
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 46



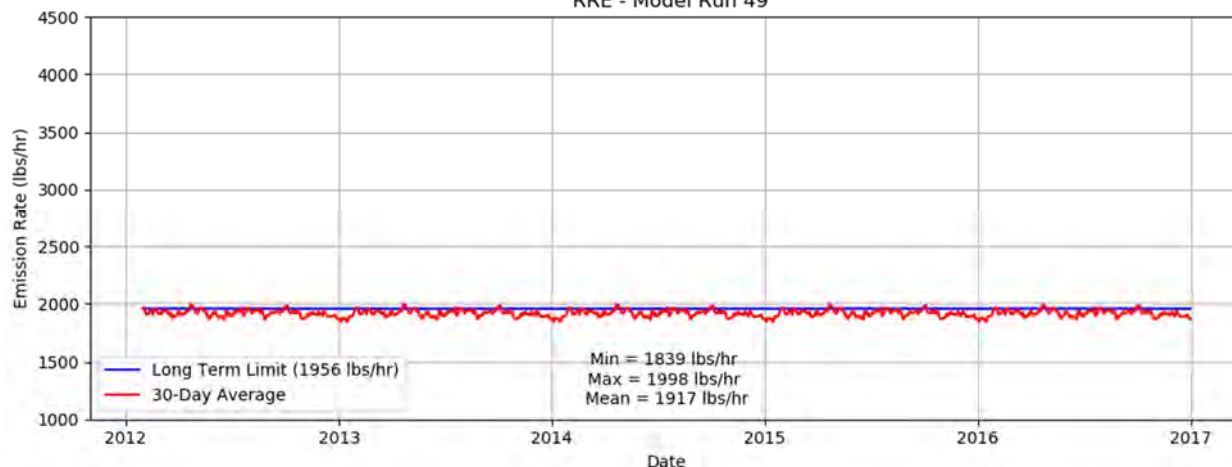
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 47



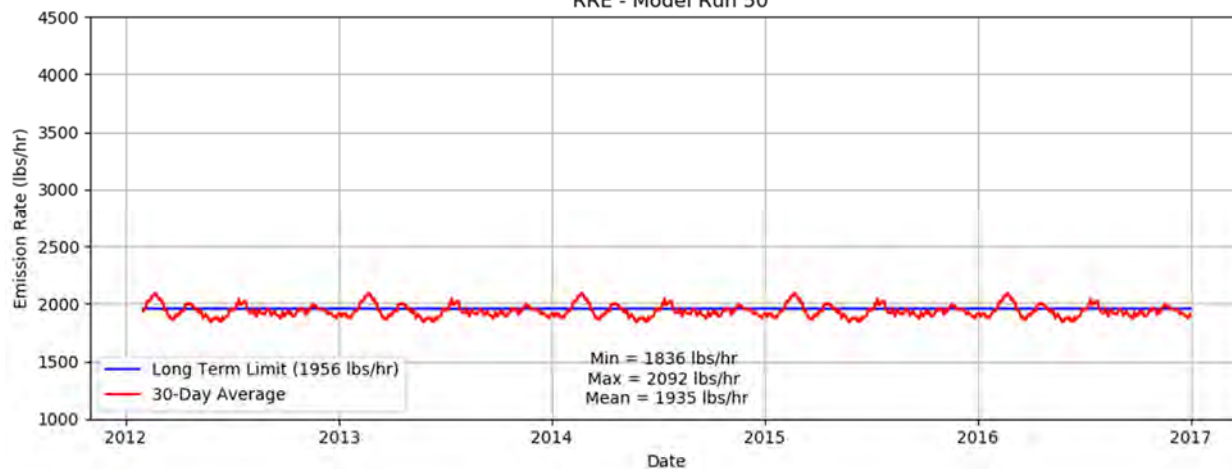
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 48



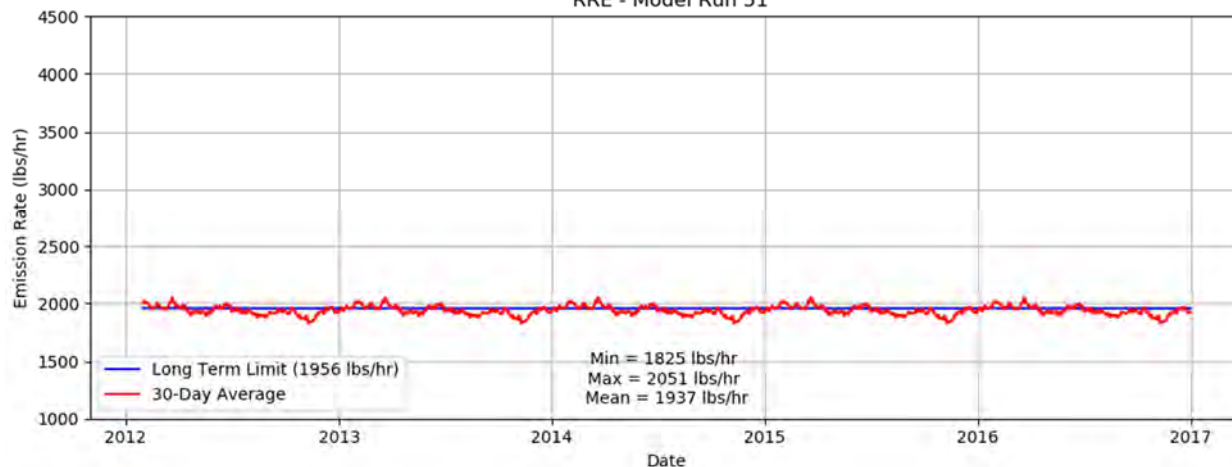
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 49



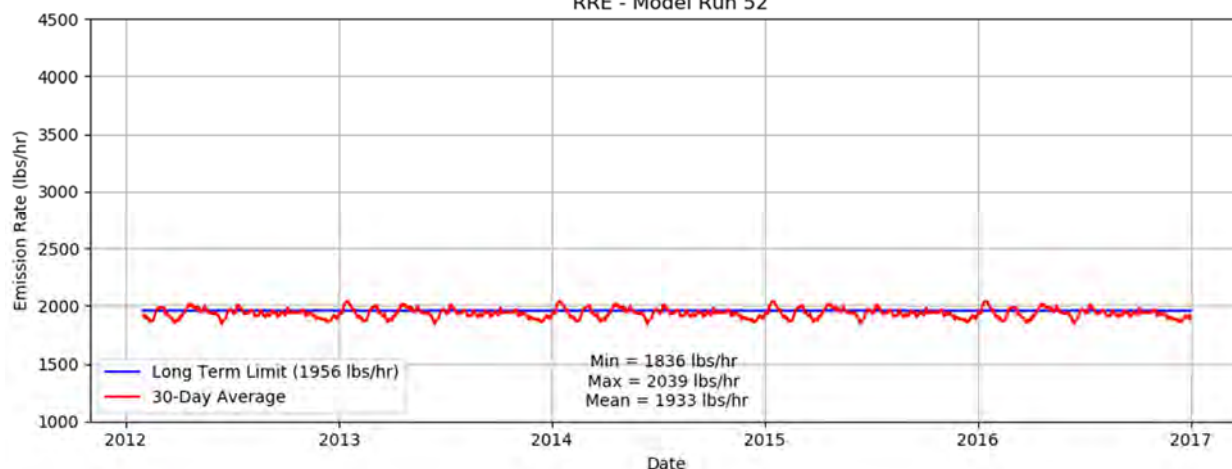
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 50



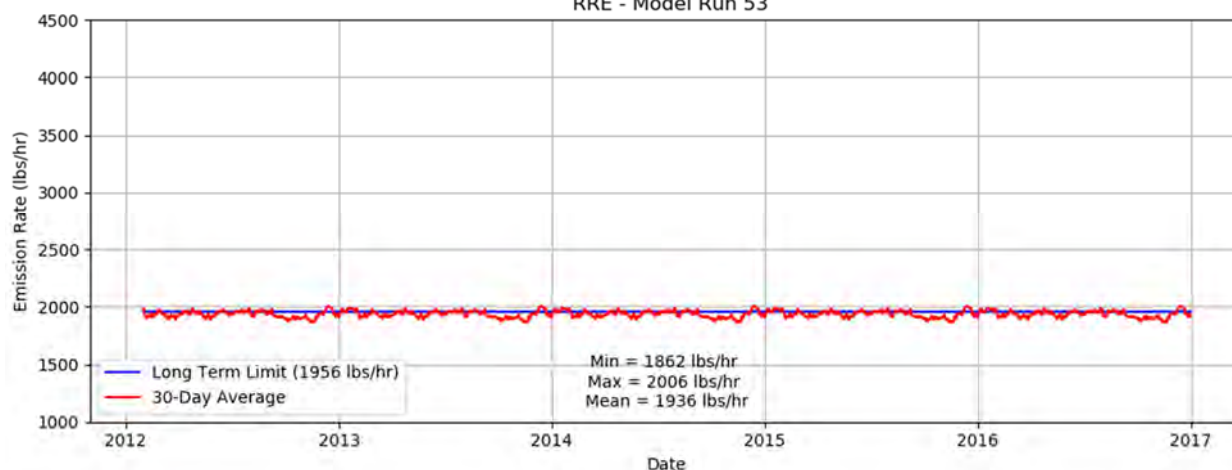
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 51



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 52

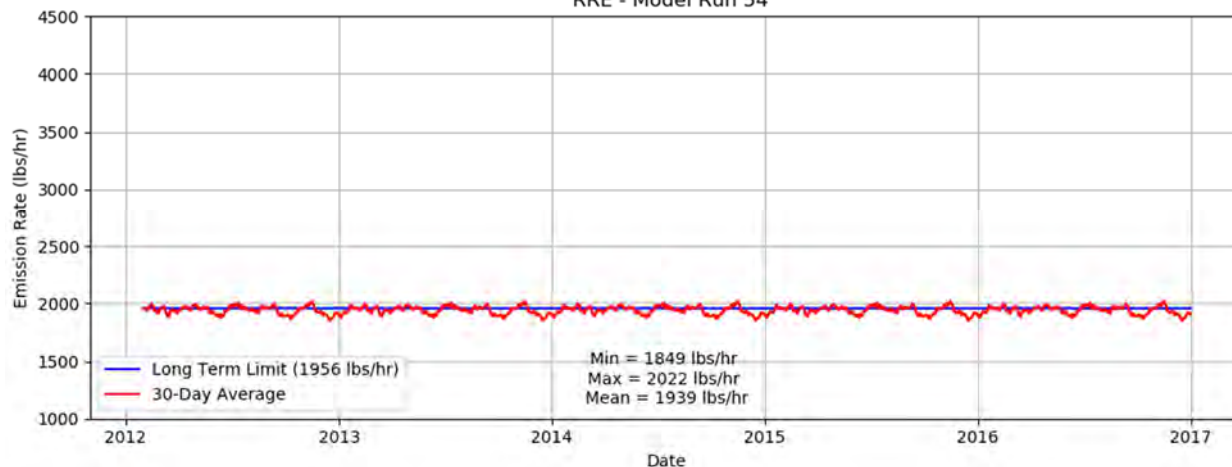


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 53

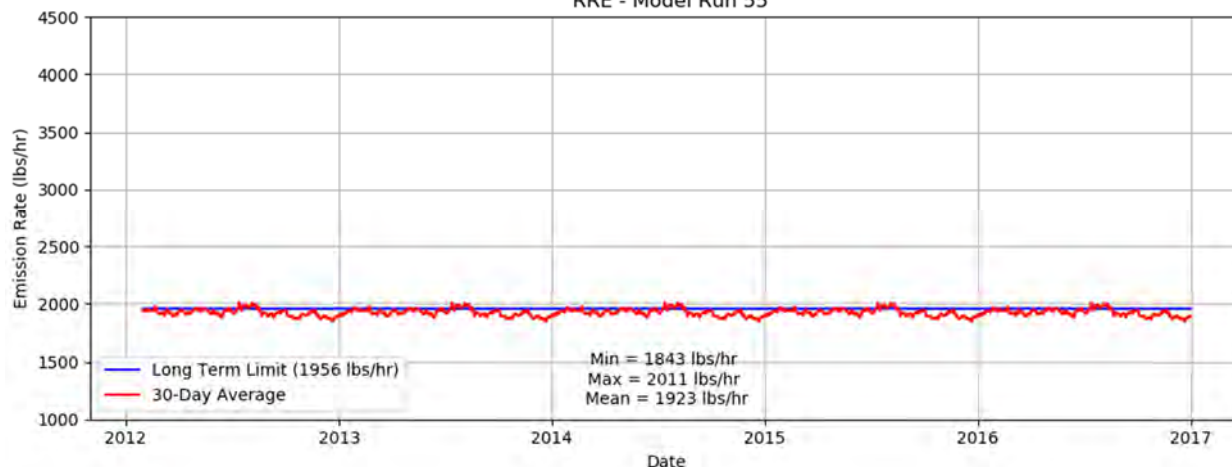




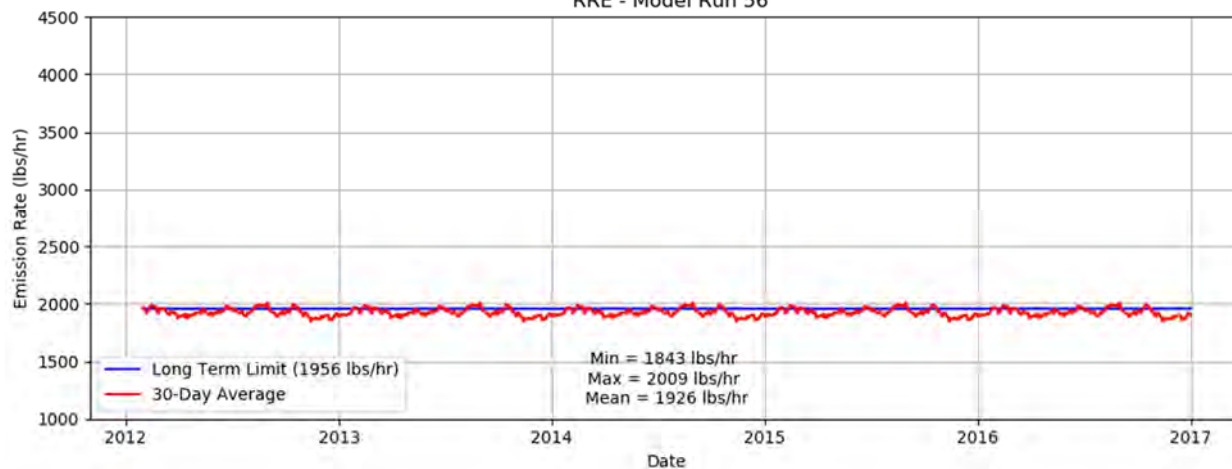
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 54



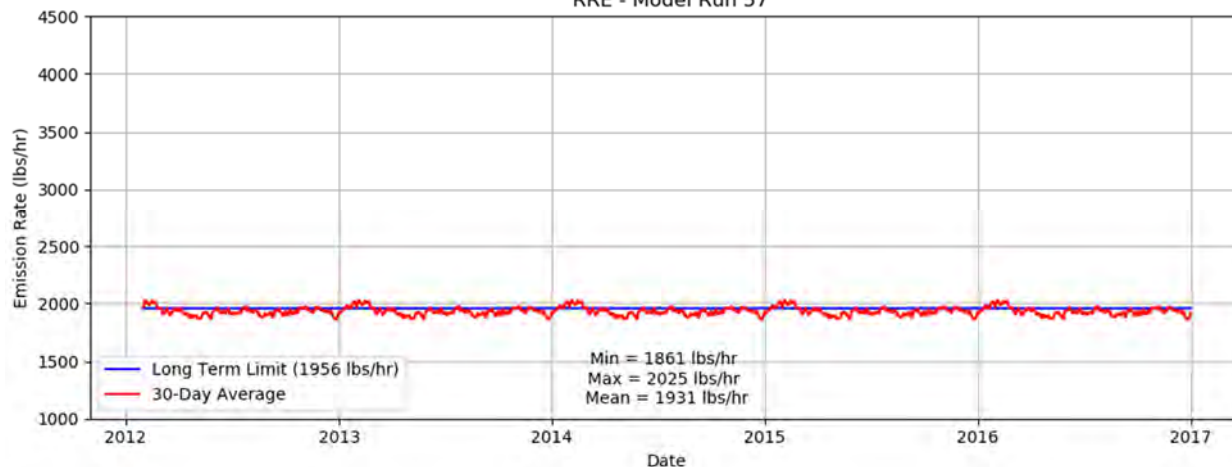
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 55



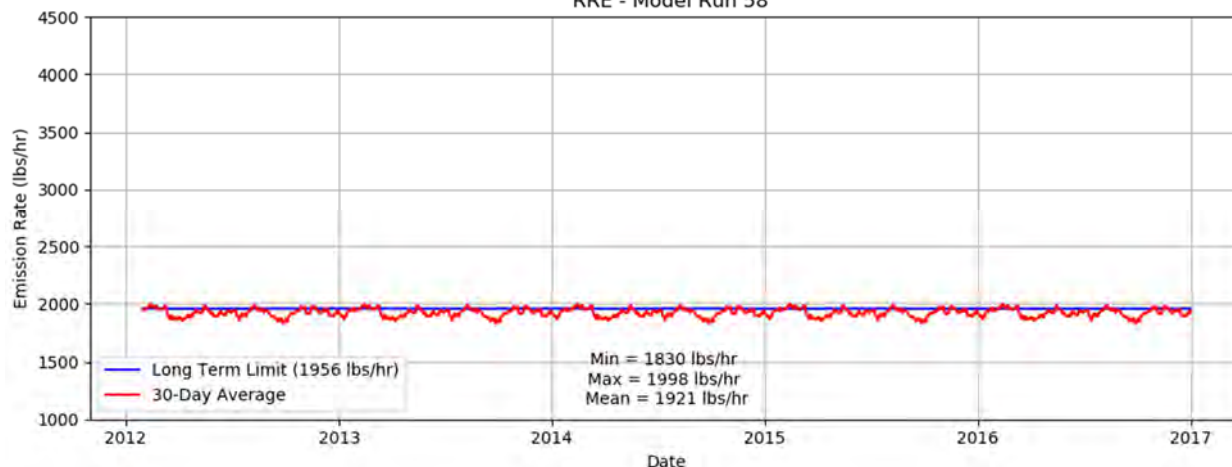
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 56



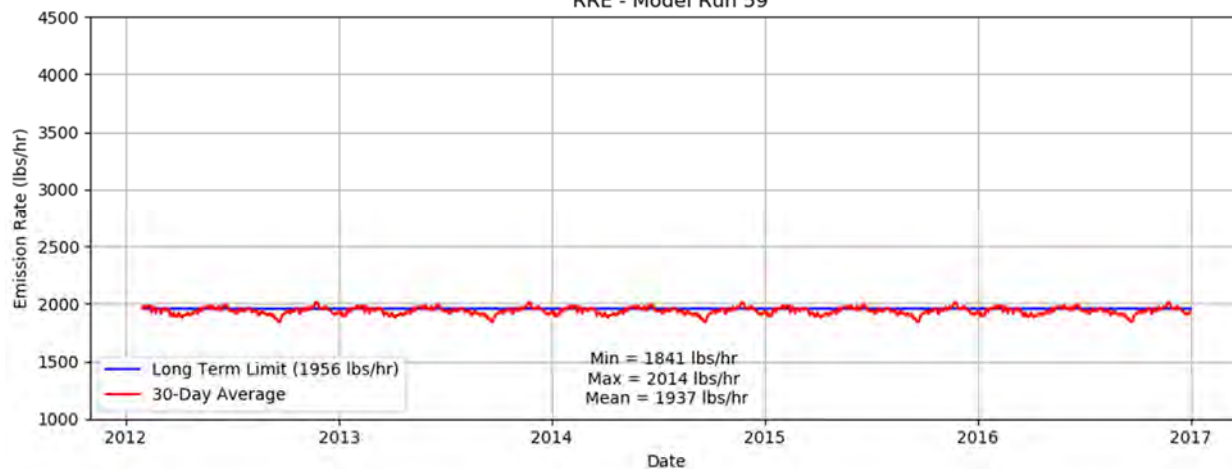
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 57



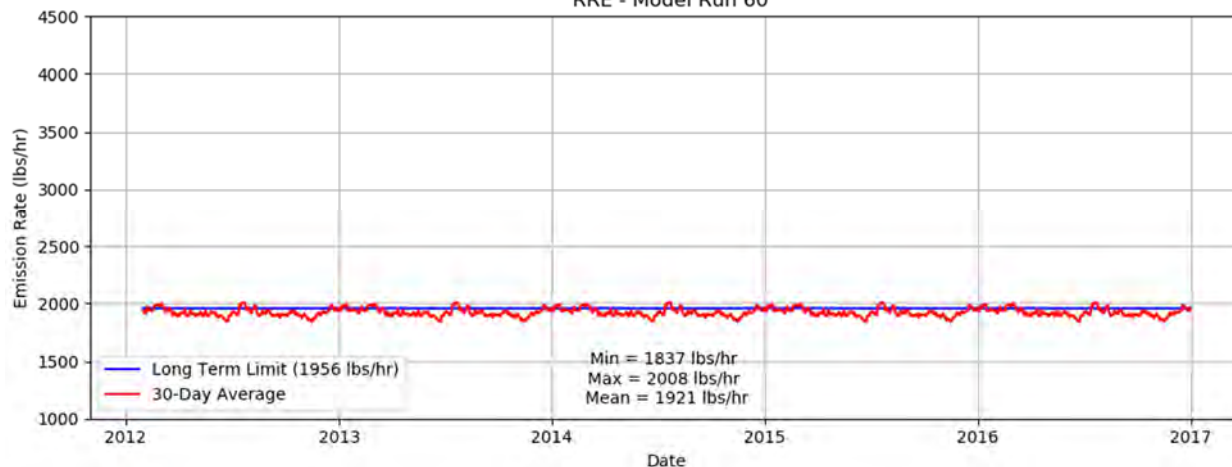
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 58



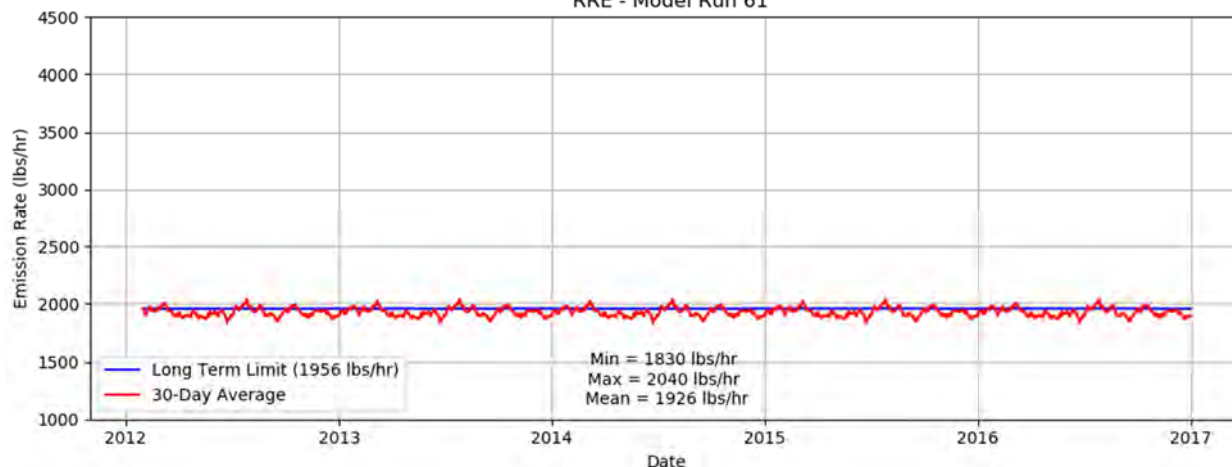
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 59



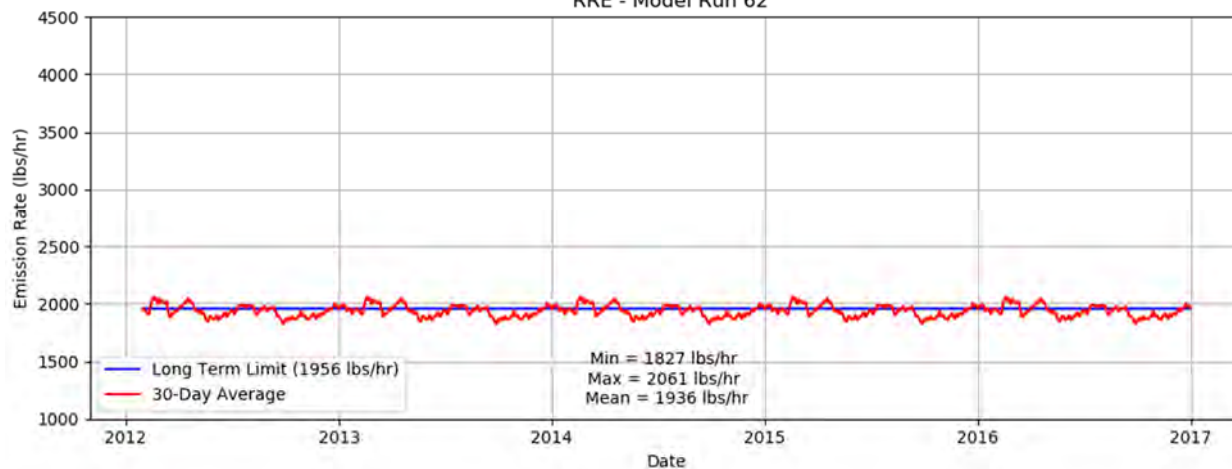
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 60



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 61

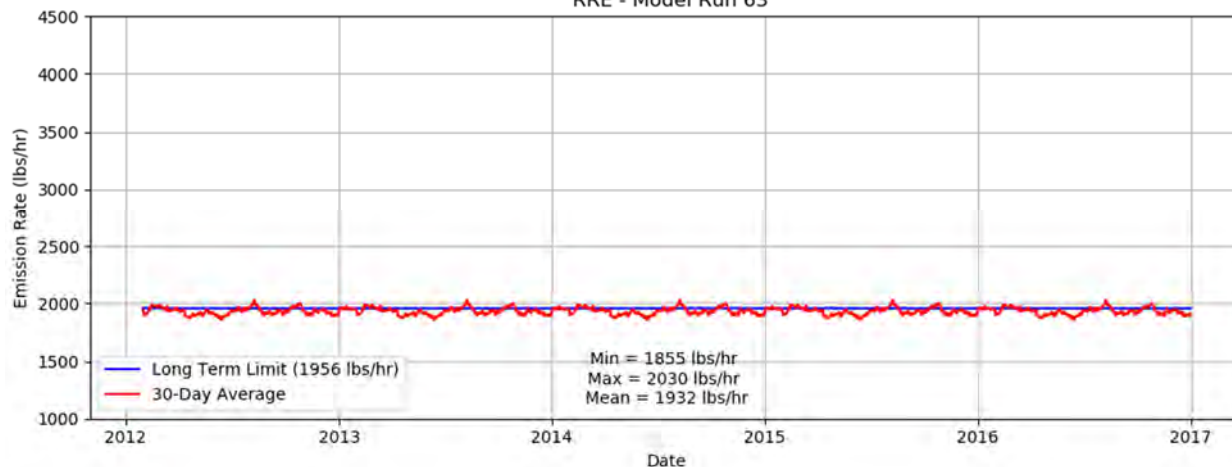


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 62

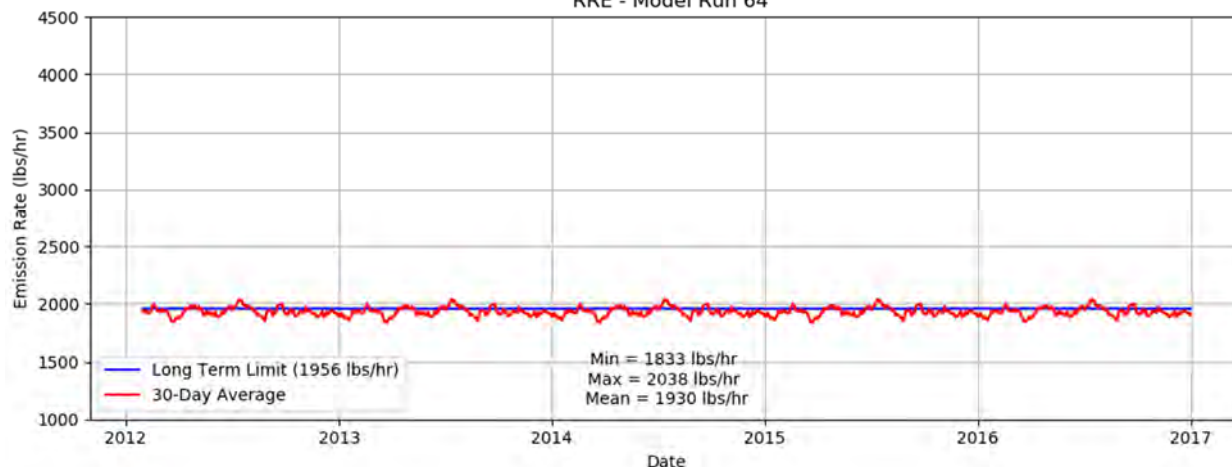




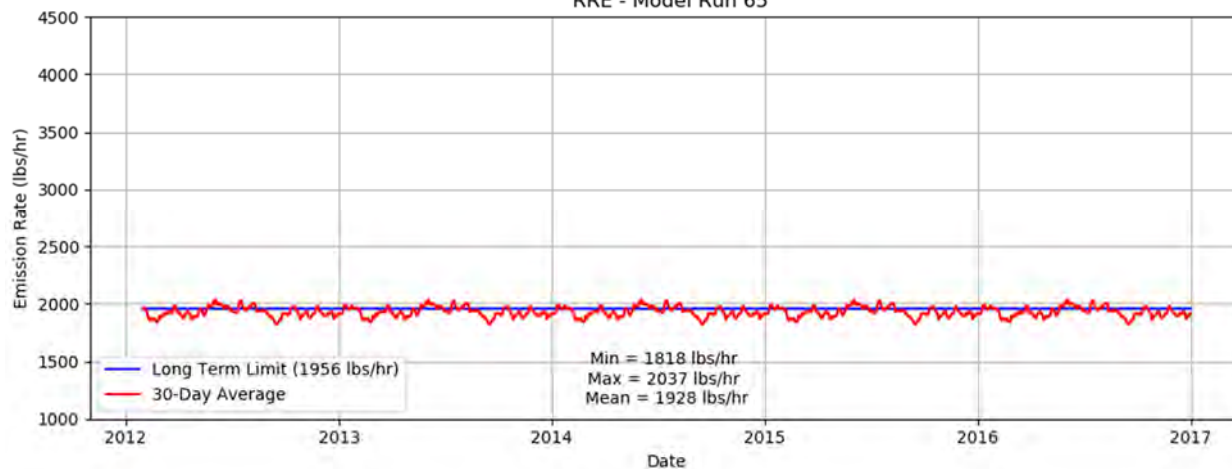
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 63



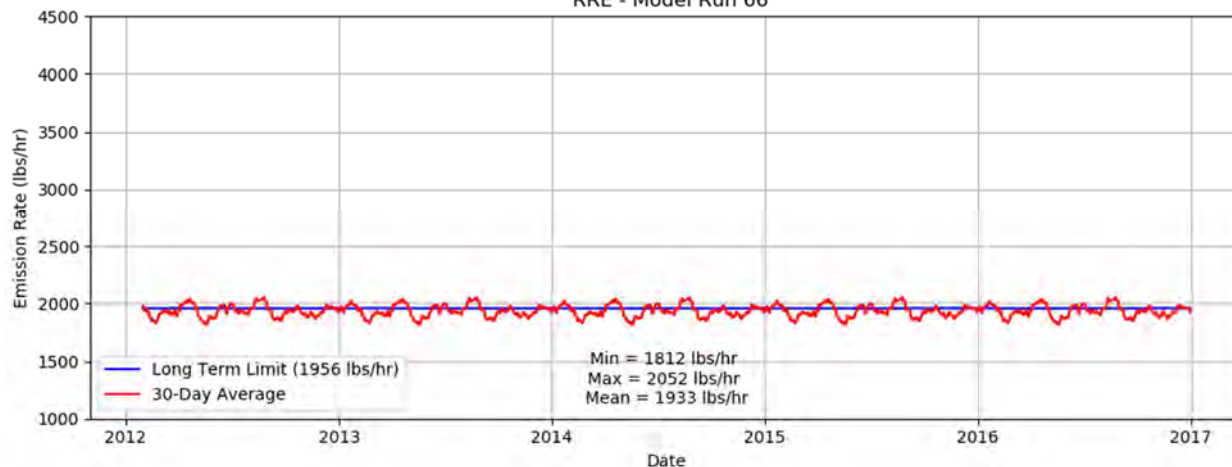
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 64



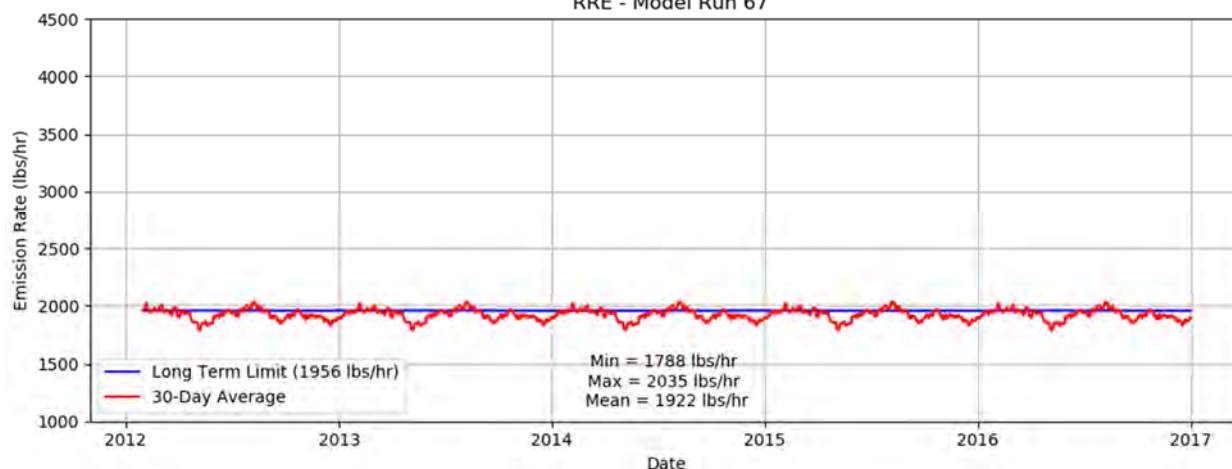
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 65



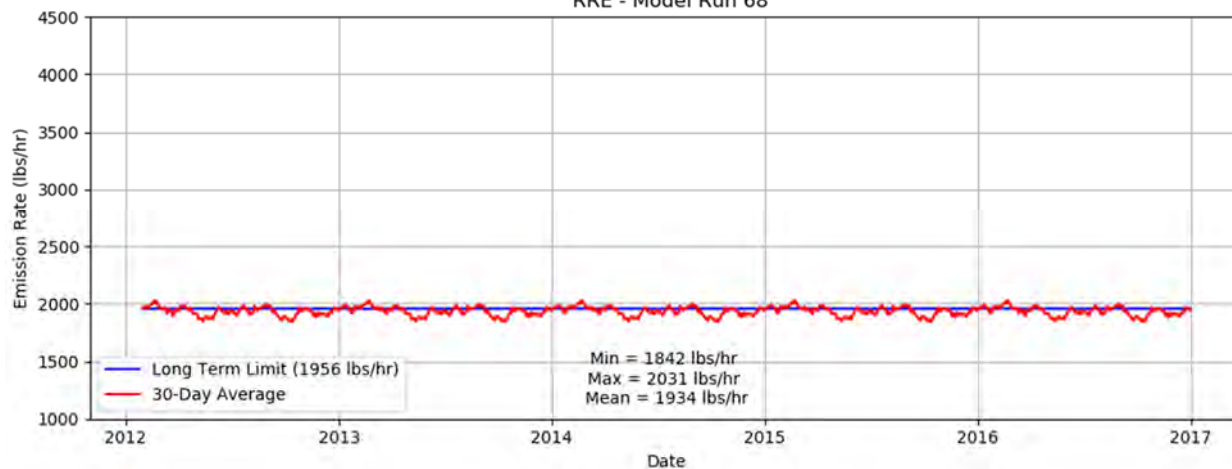
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 66



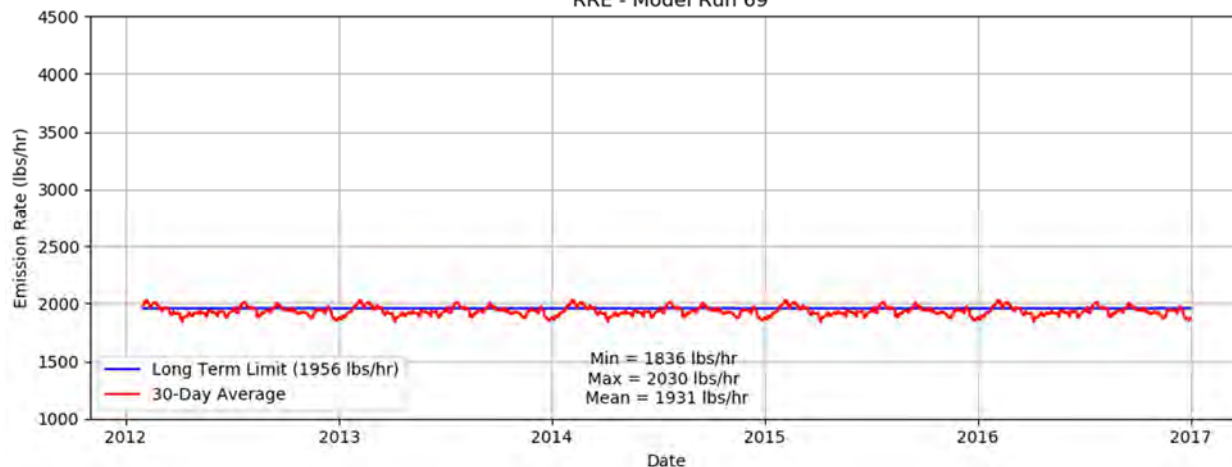
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 67



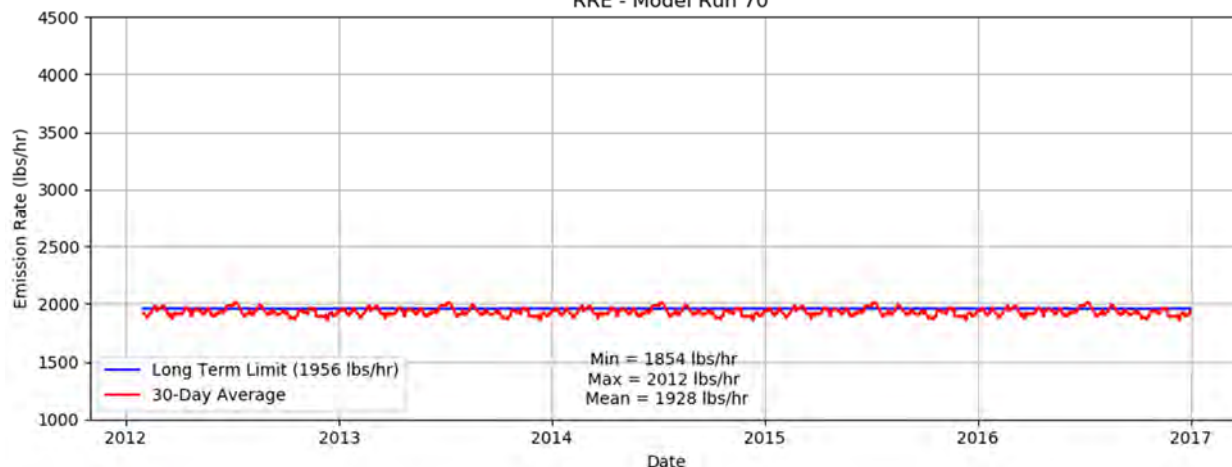
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 68



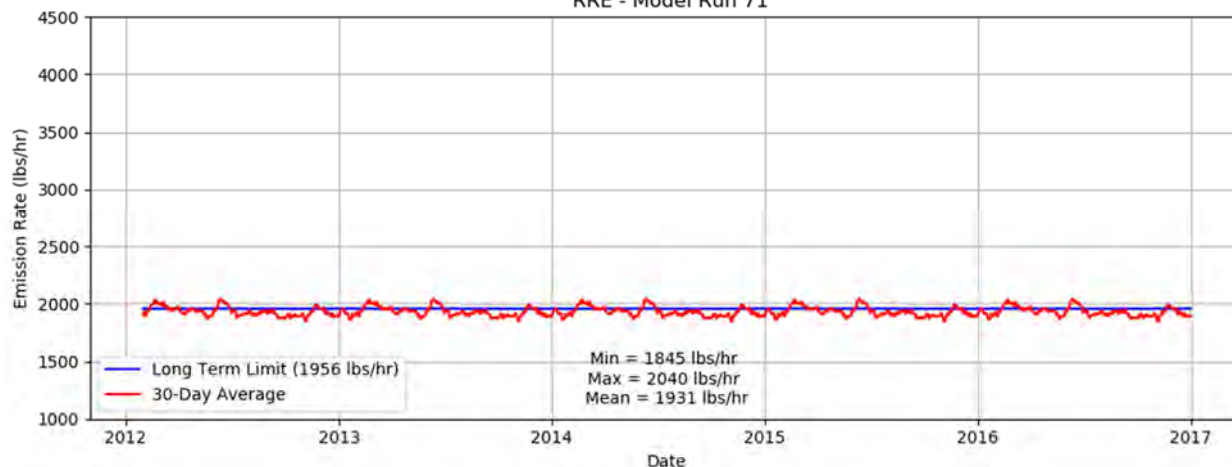
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 69



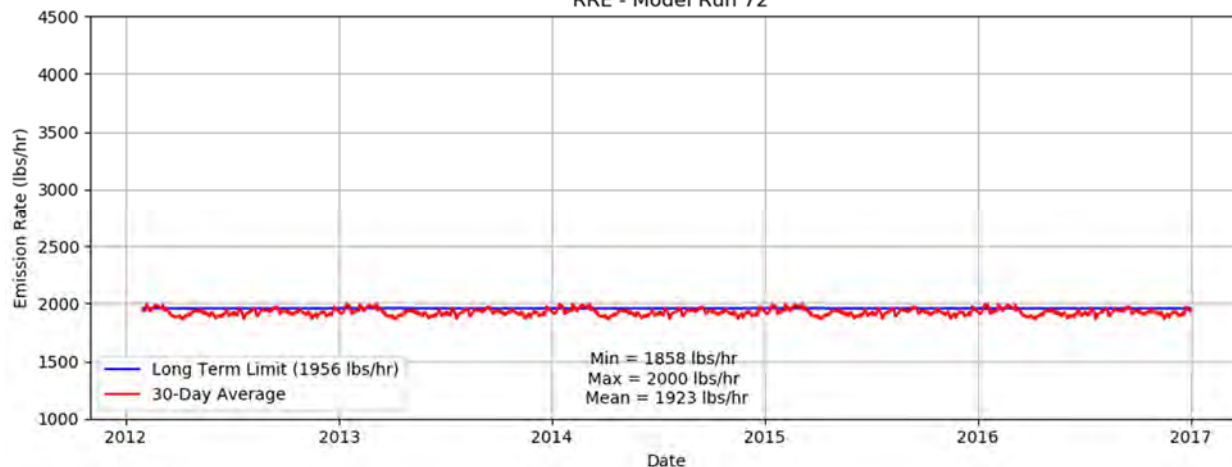
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 70



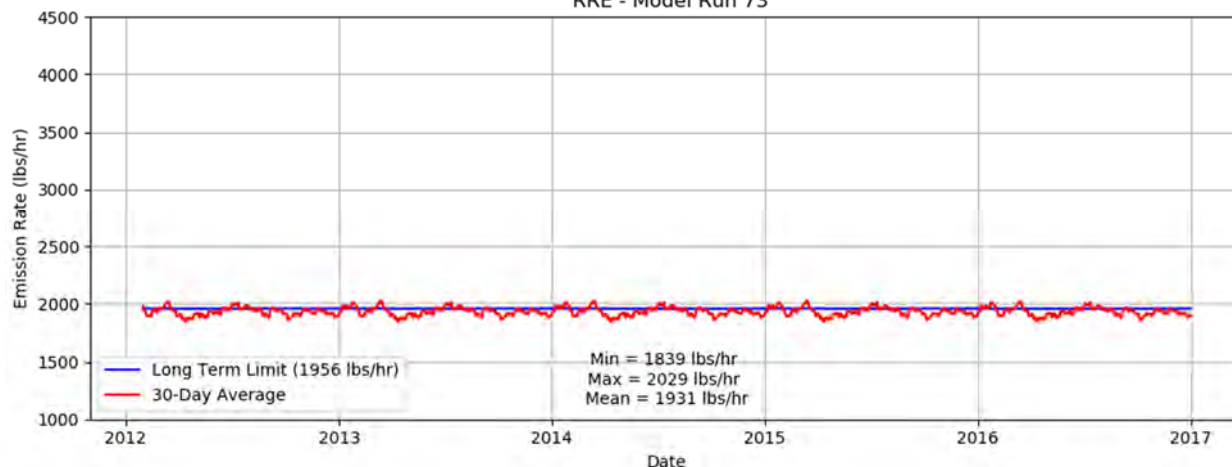
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 71



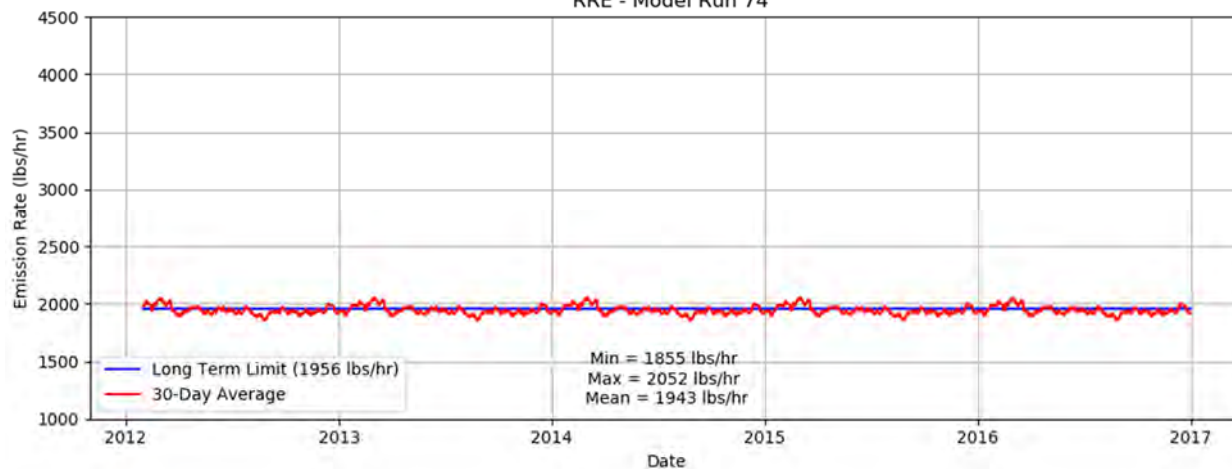
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 72



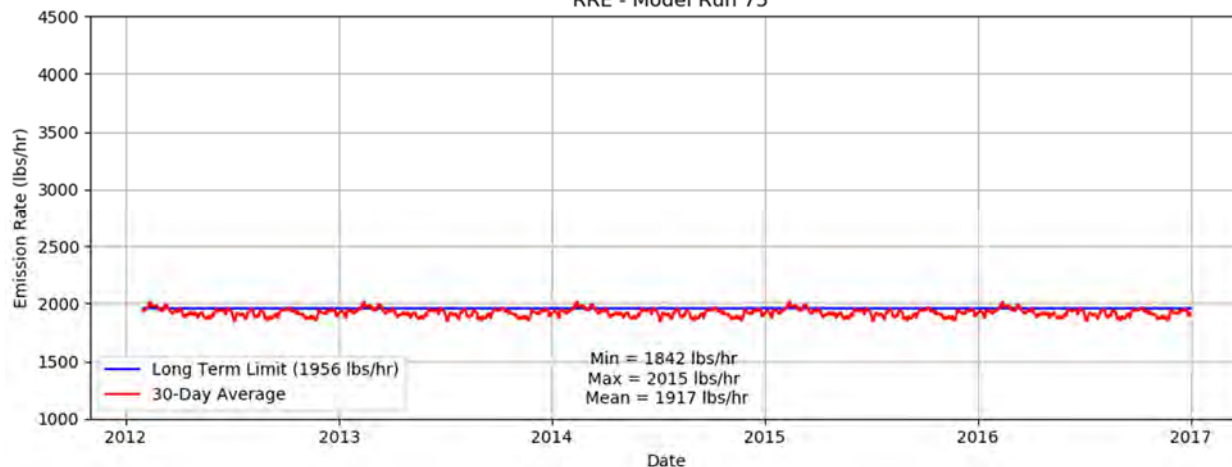
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 73



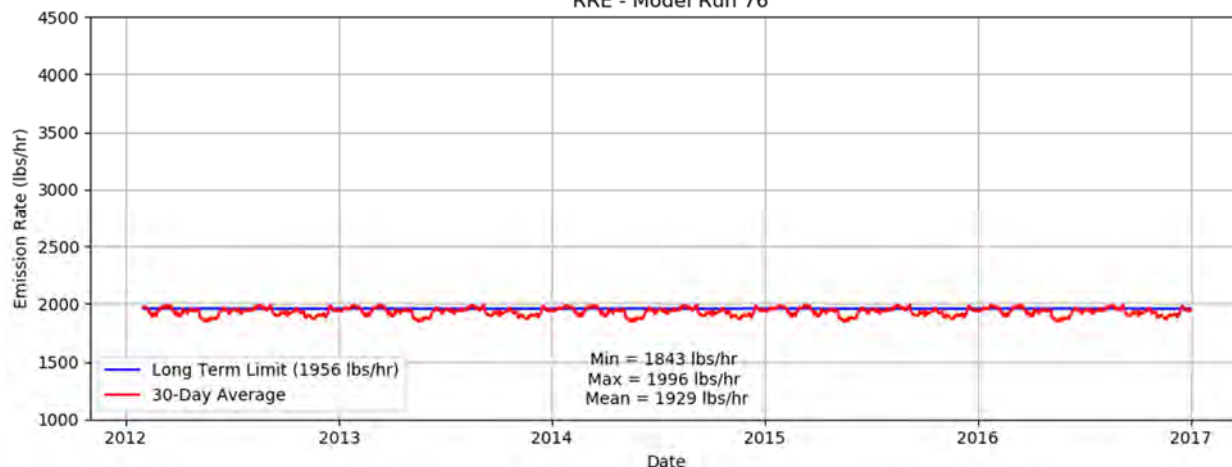
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 74



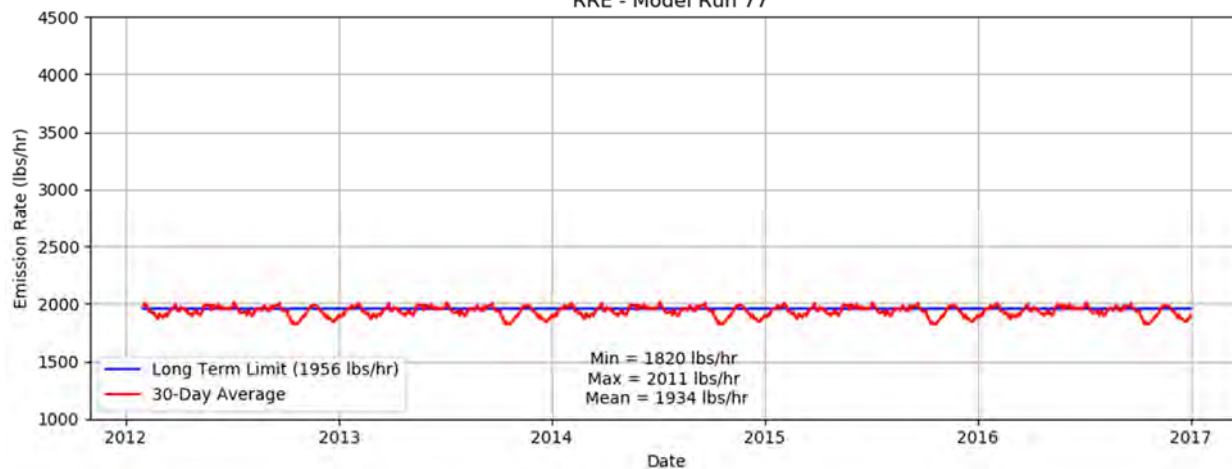
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 75



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 76

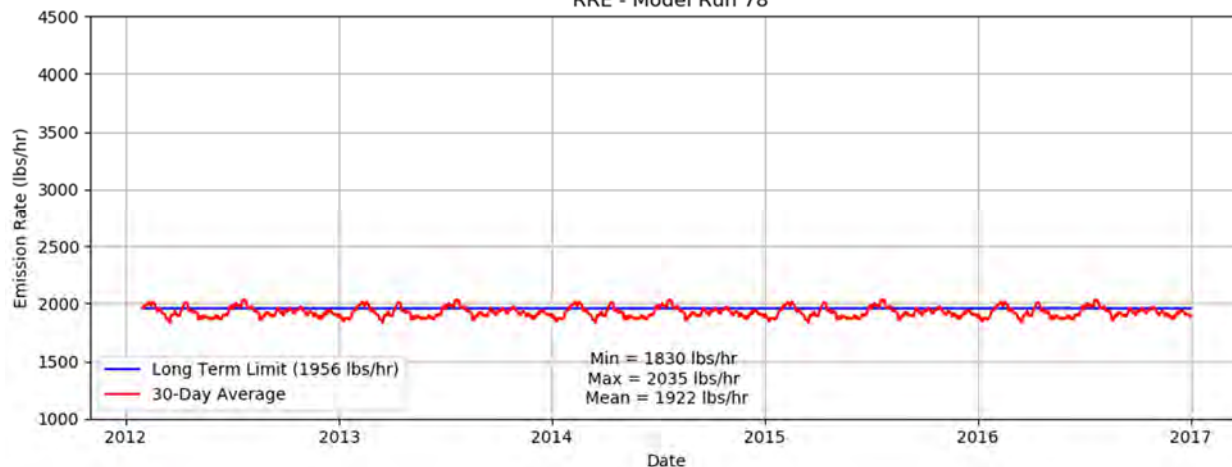


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 77

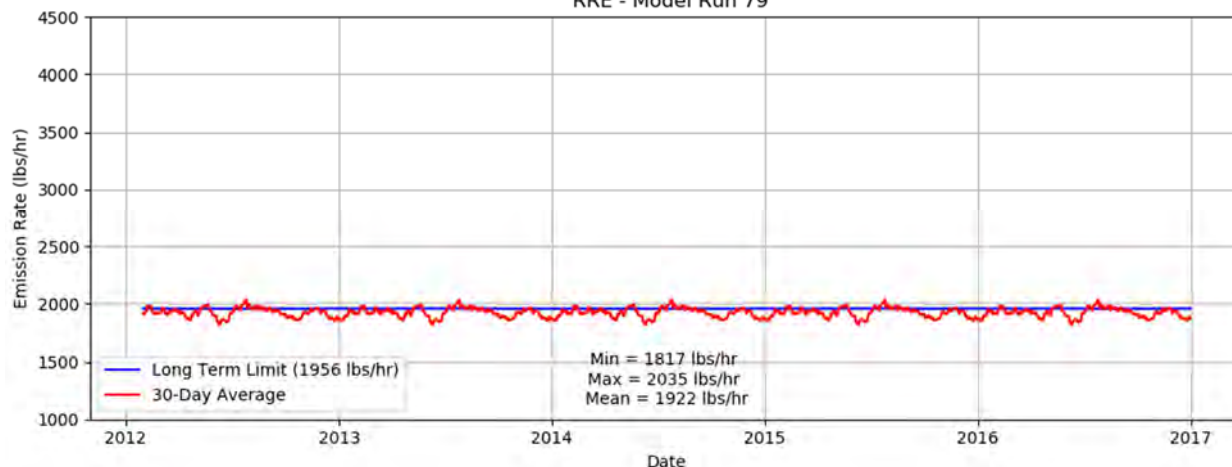




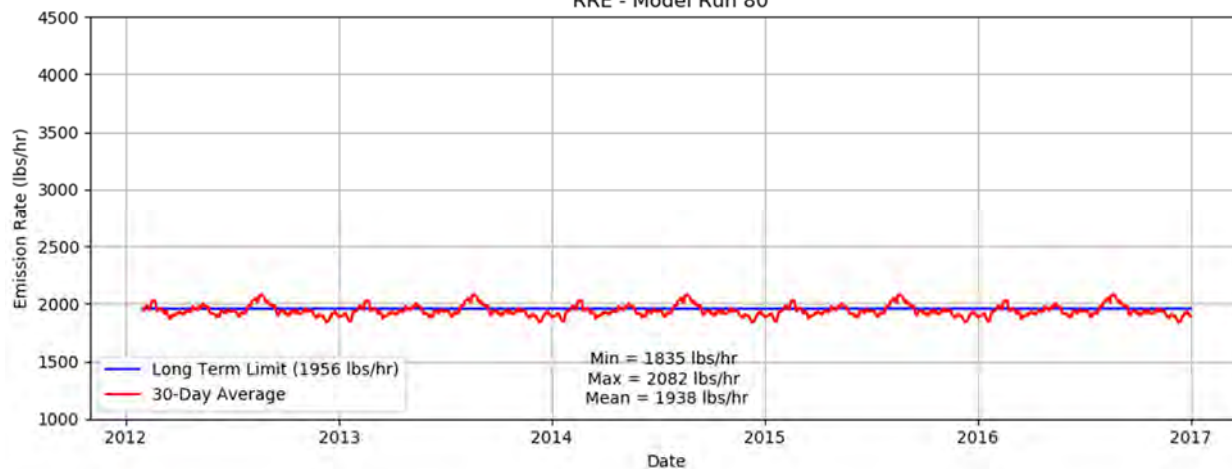
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 78



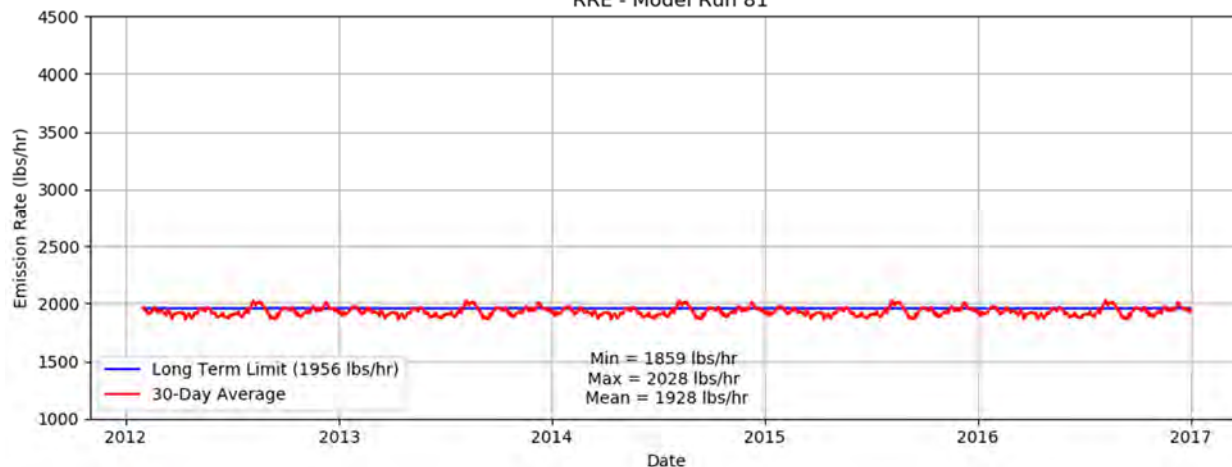
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 79



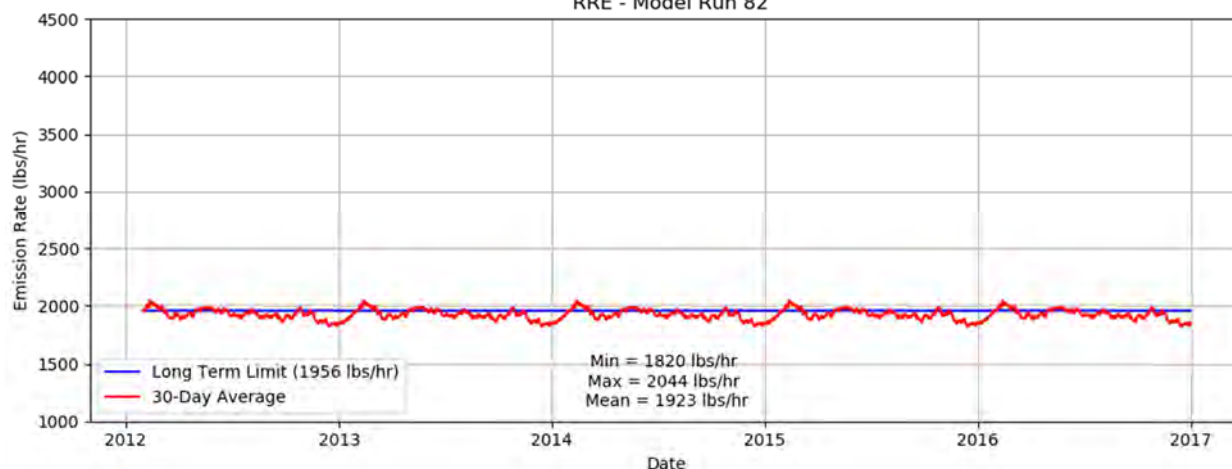
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 80



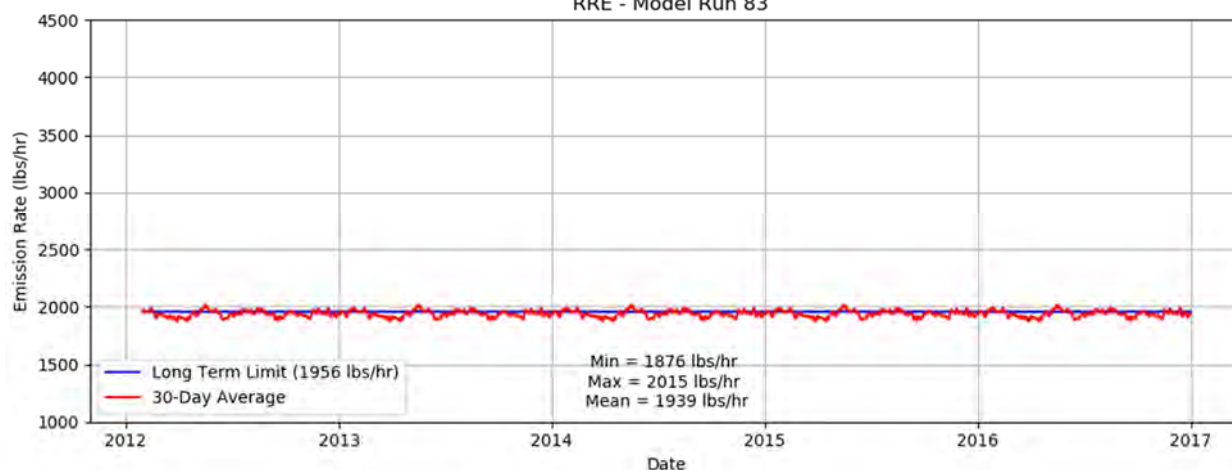
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 81



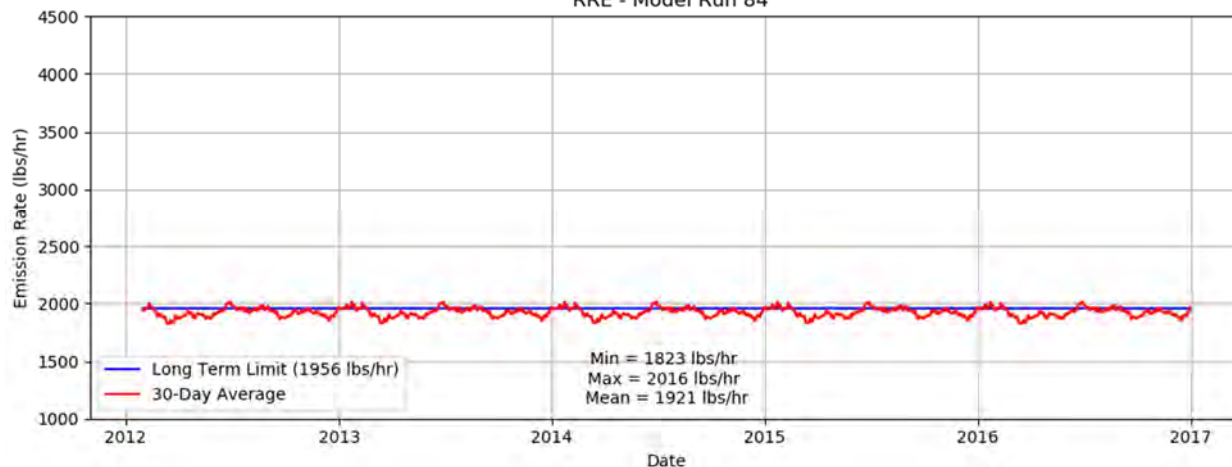
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 82



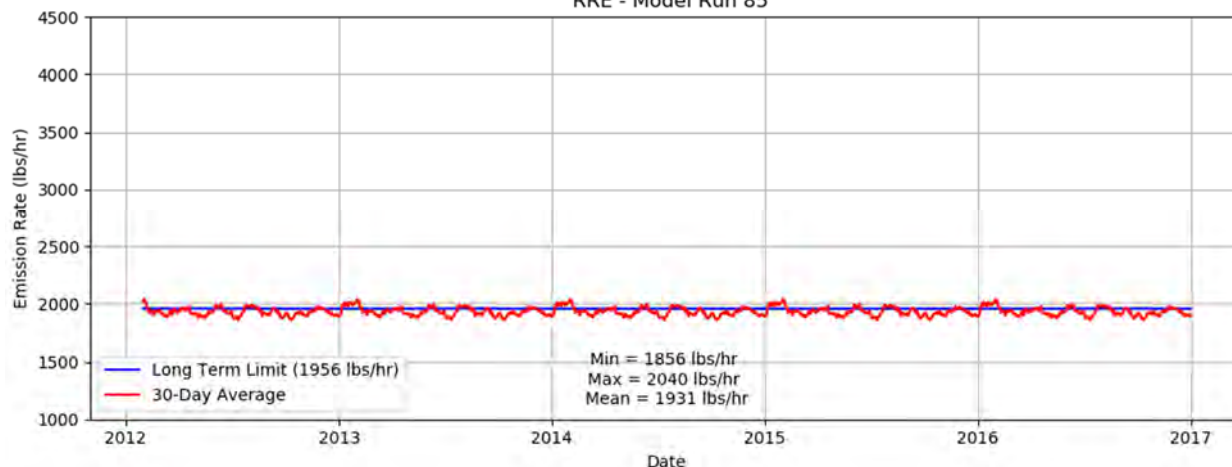
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 83



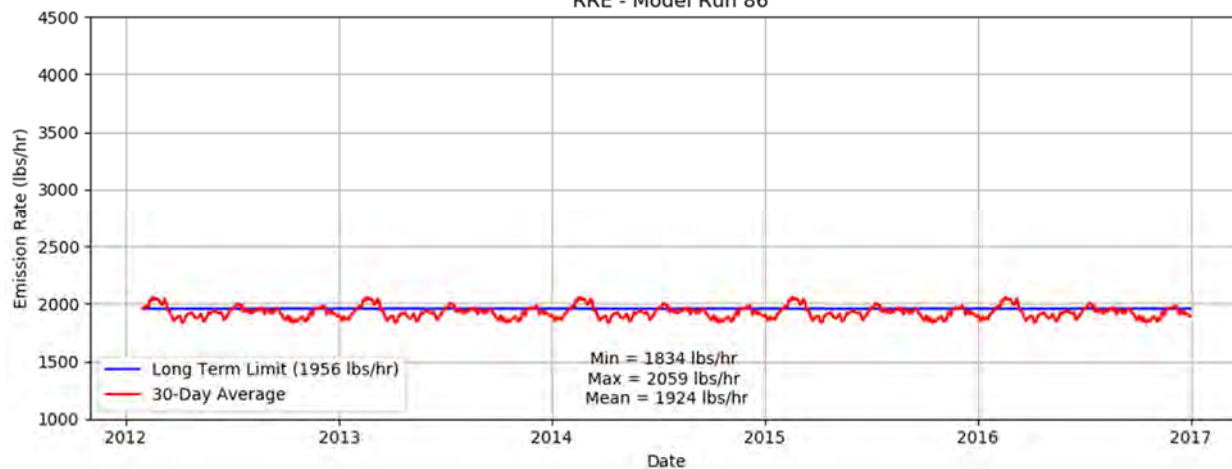
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 84



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 85



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 86

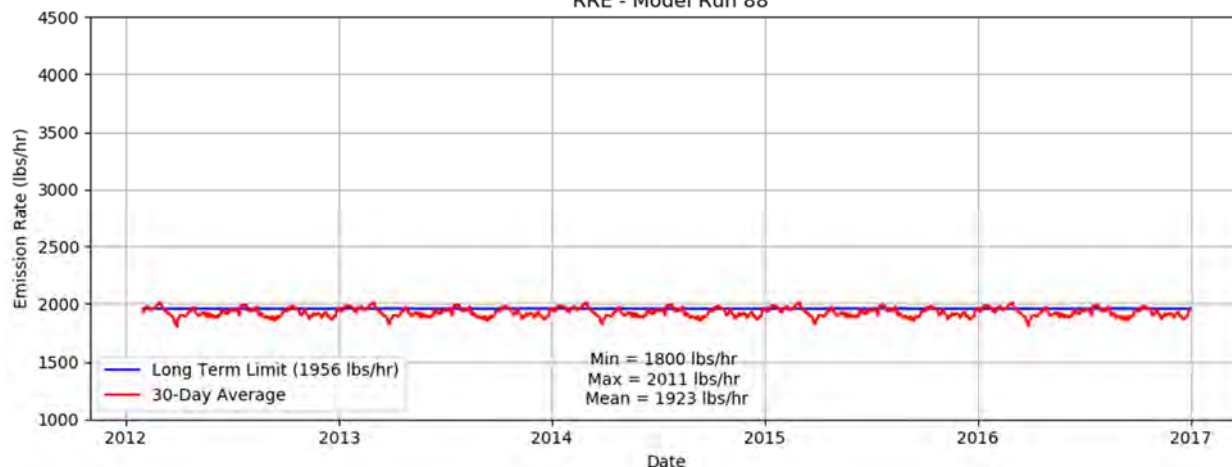




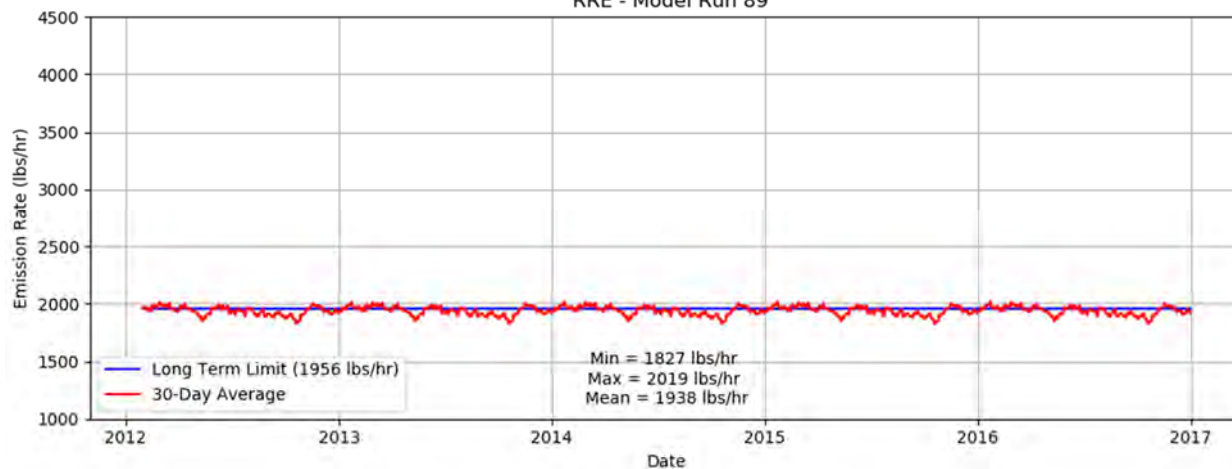
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 87



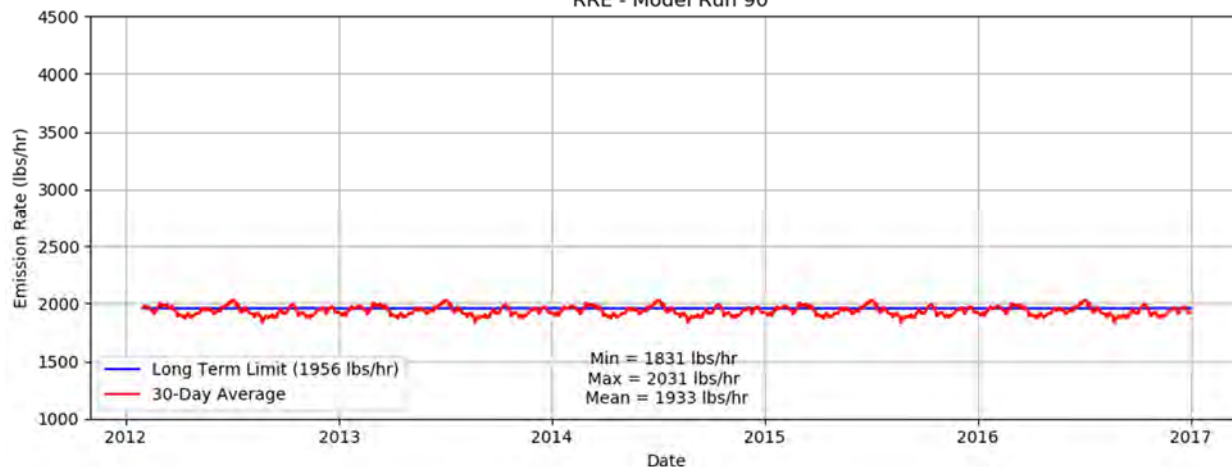
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 88



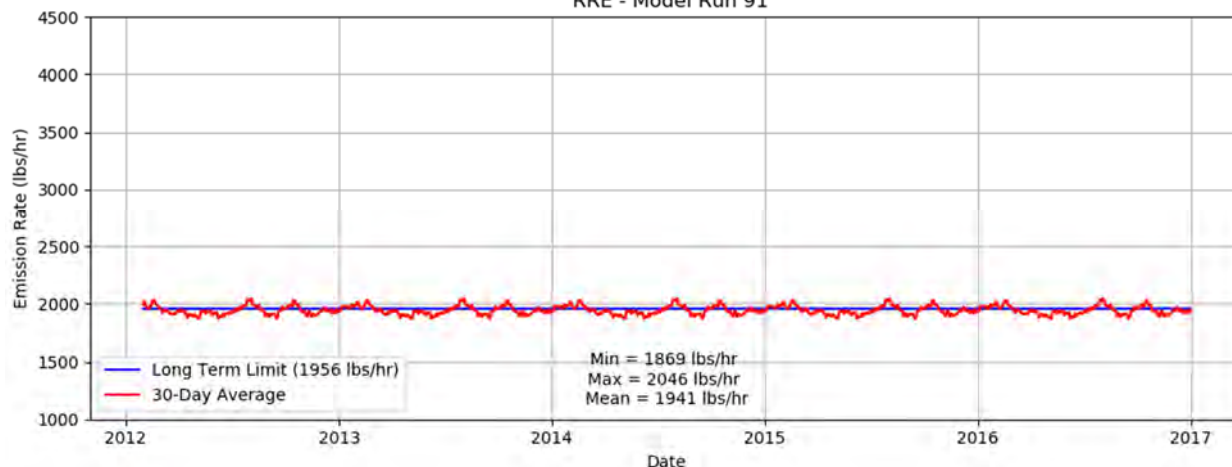
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 89



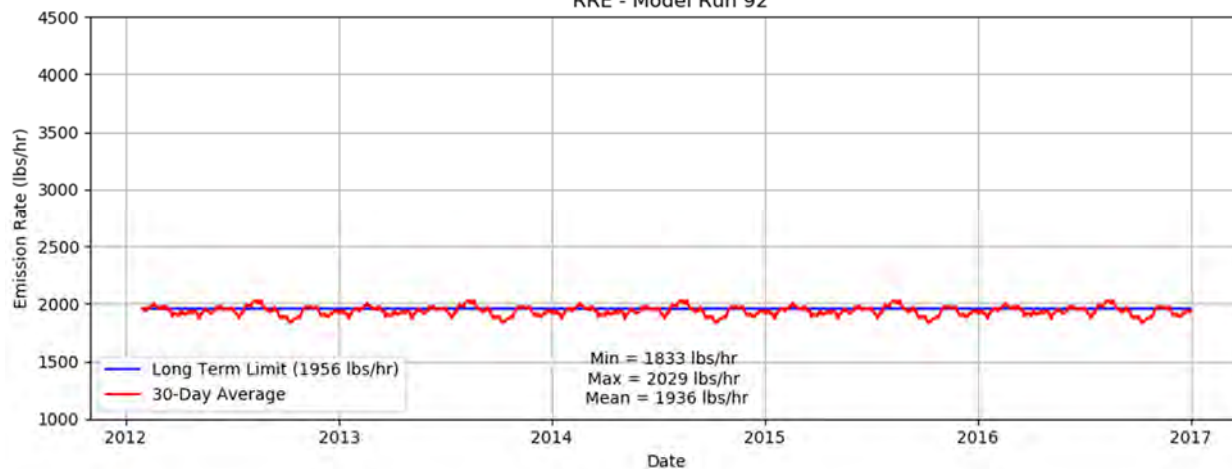
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 90



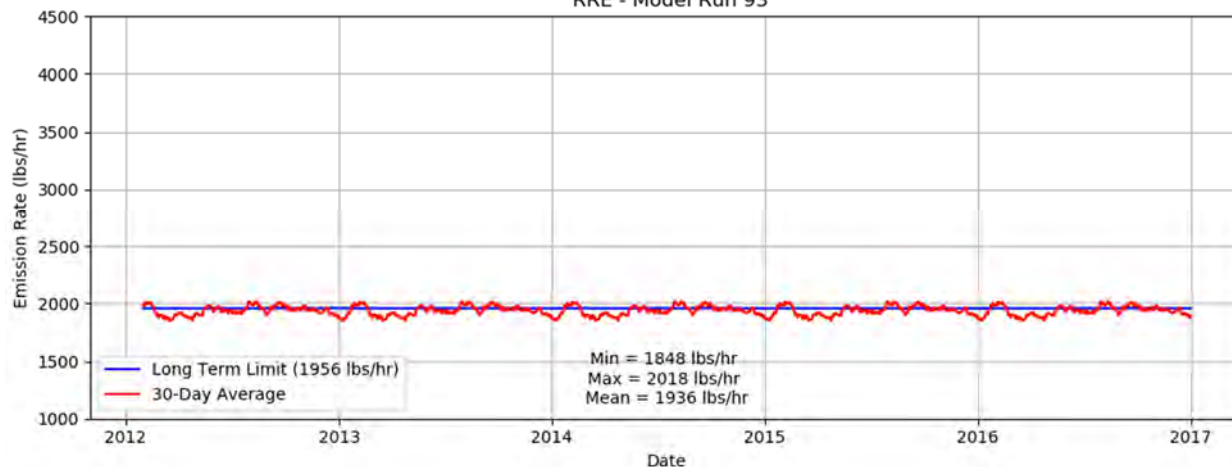
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 91



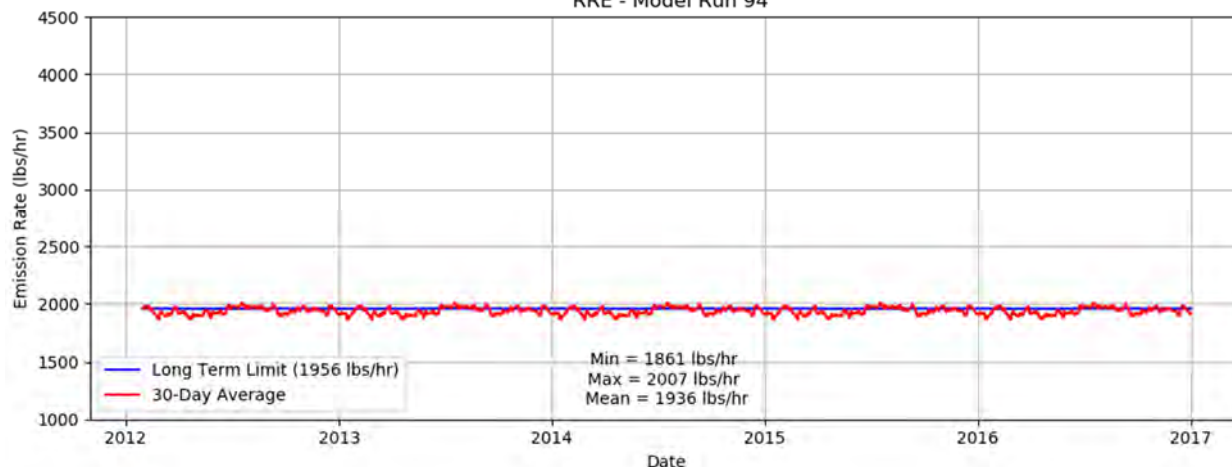
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 92



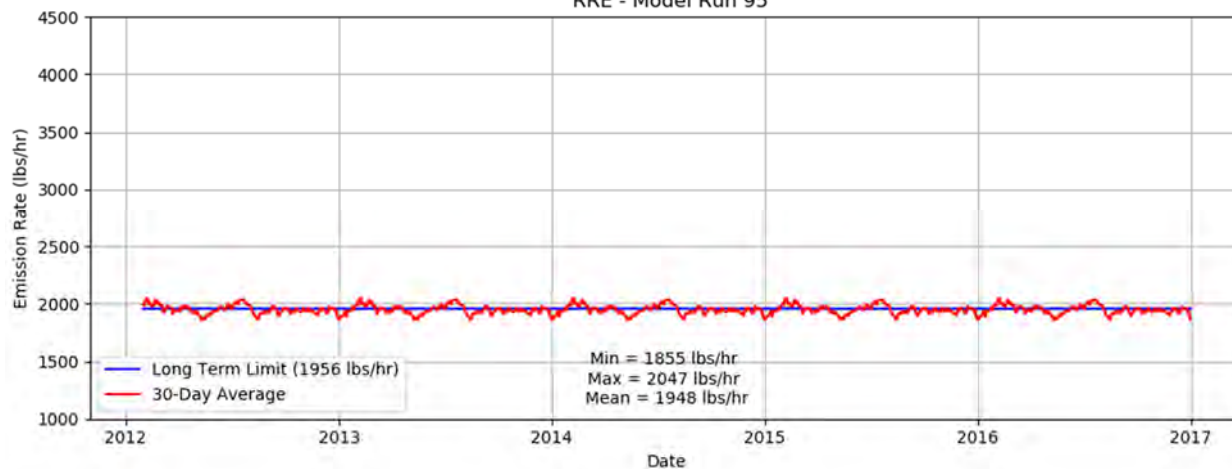
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 93



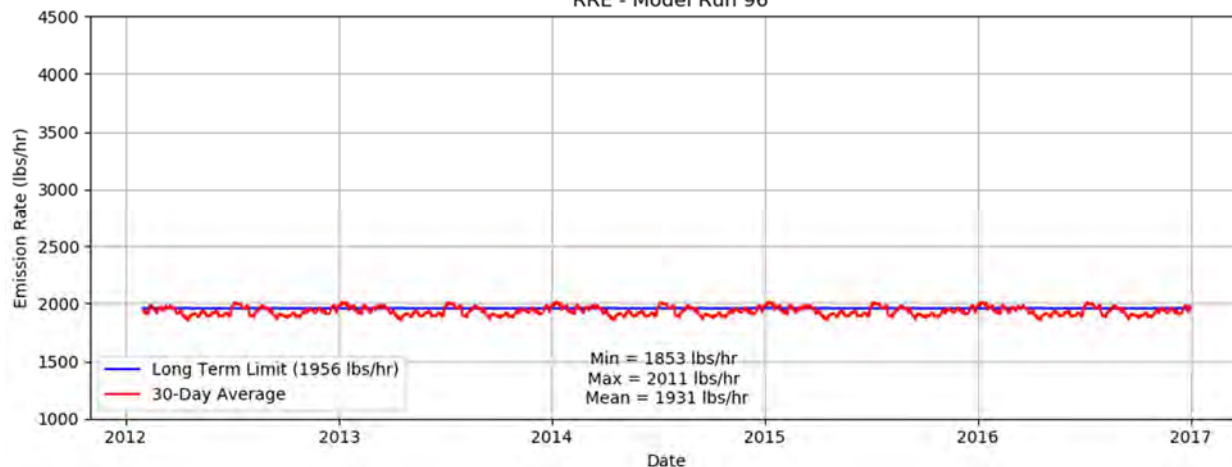
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 94



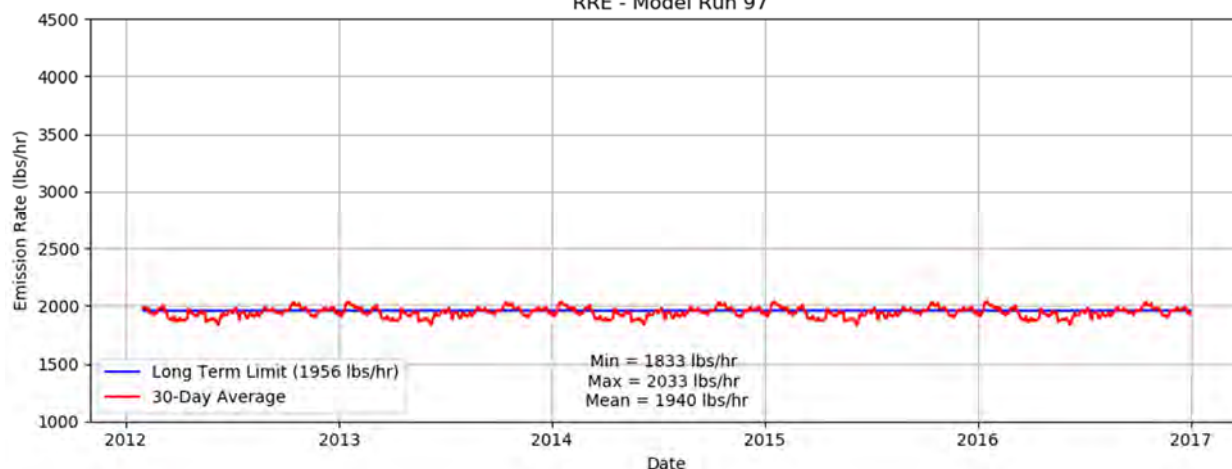
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 95



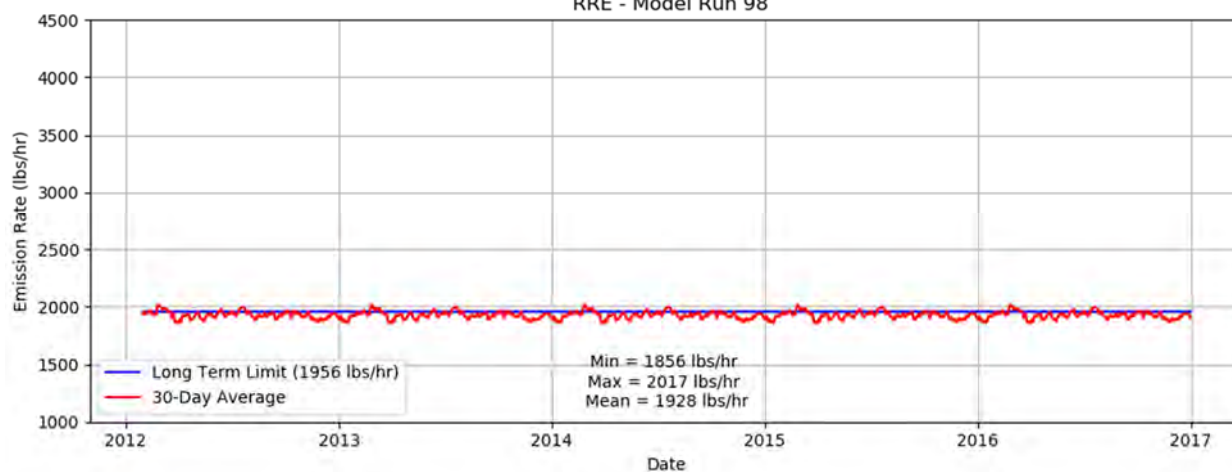
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 96



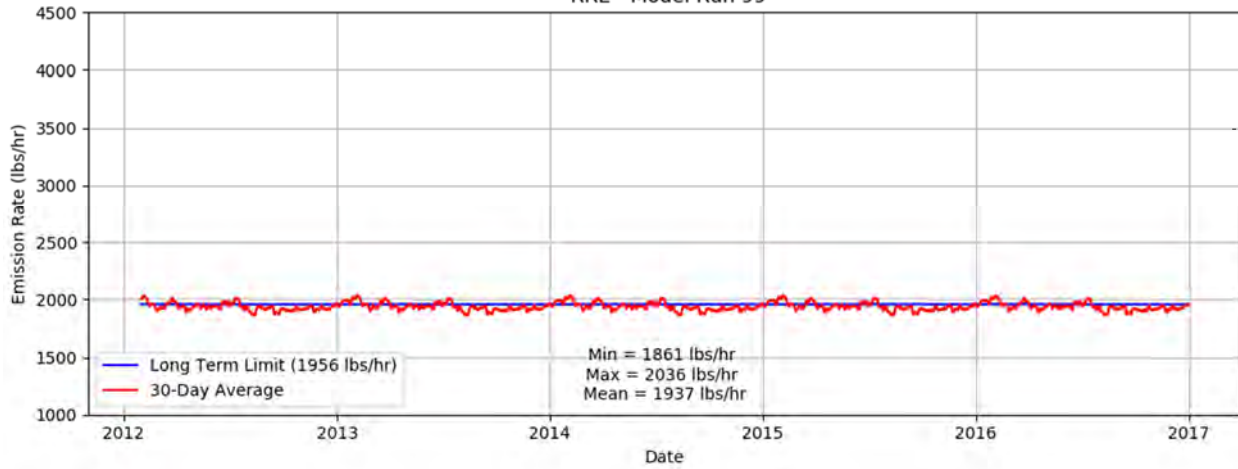
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 97



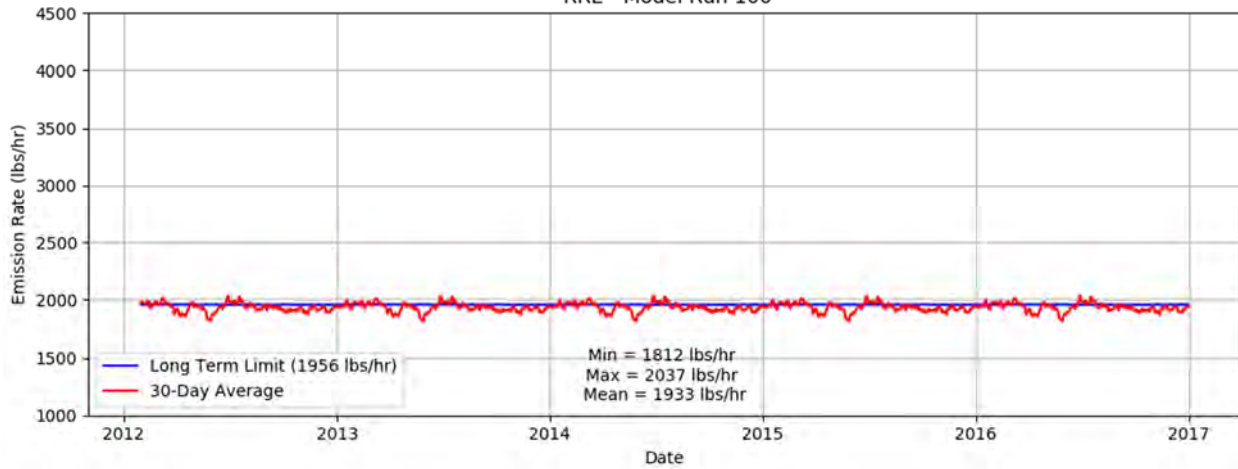
Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 98



Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 99

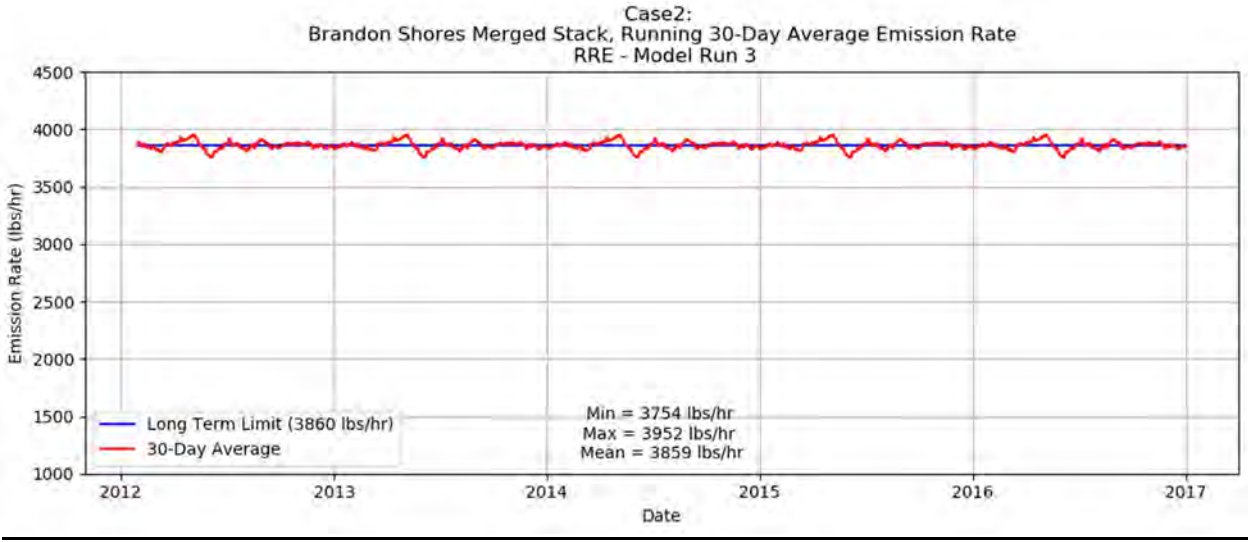
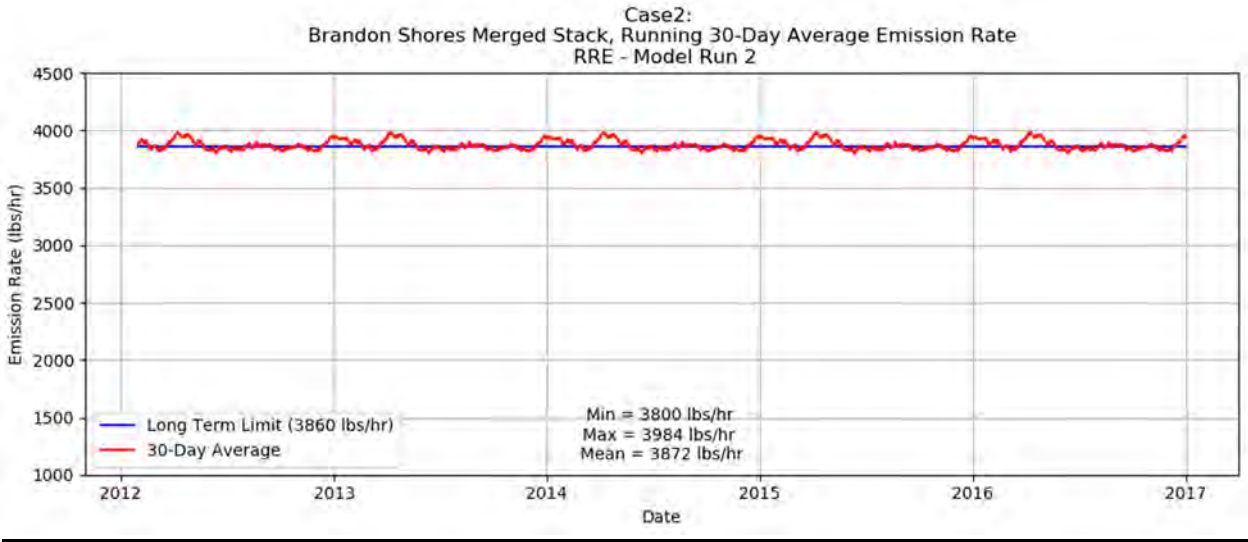
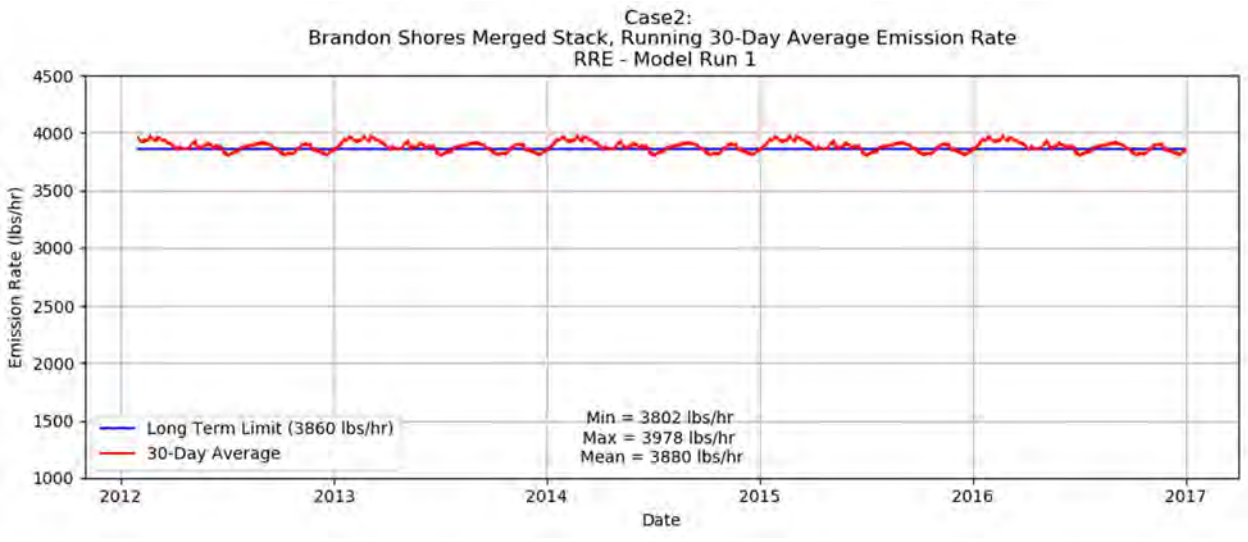


Case1:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 100

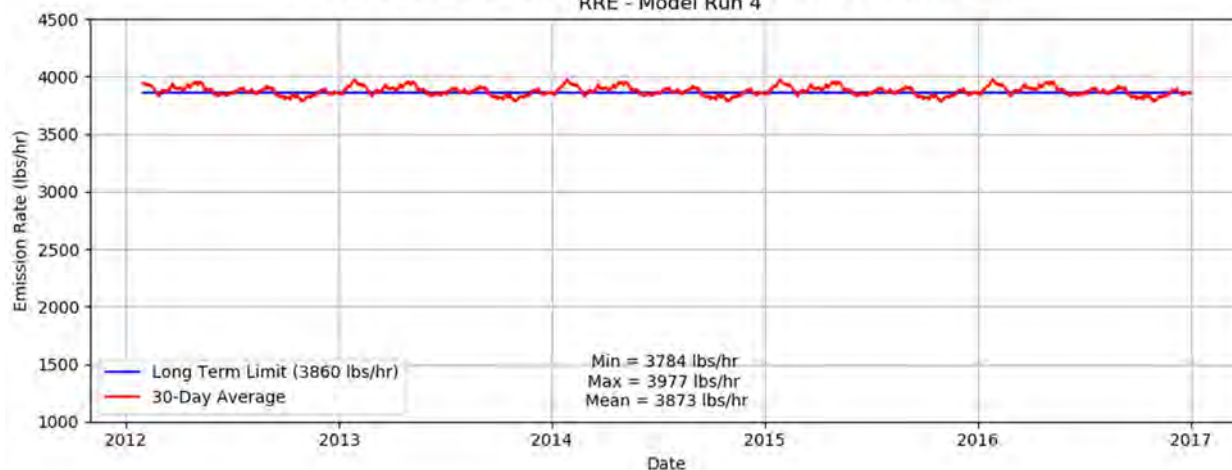




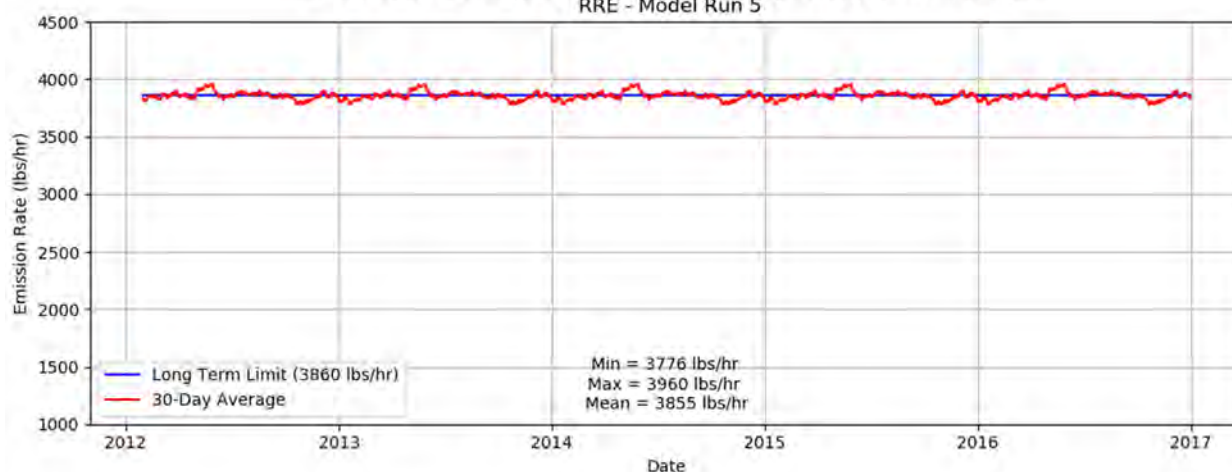
**Brandon Shores Generating Station, Case 2**



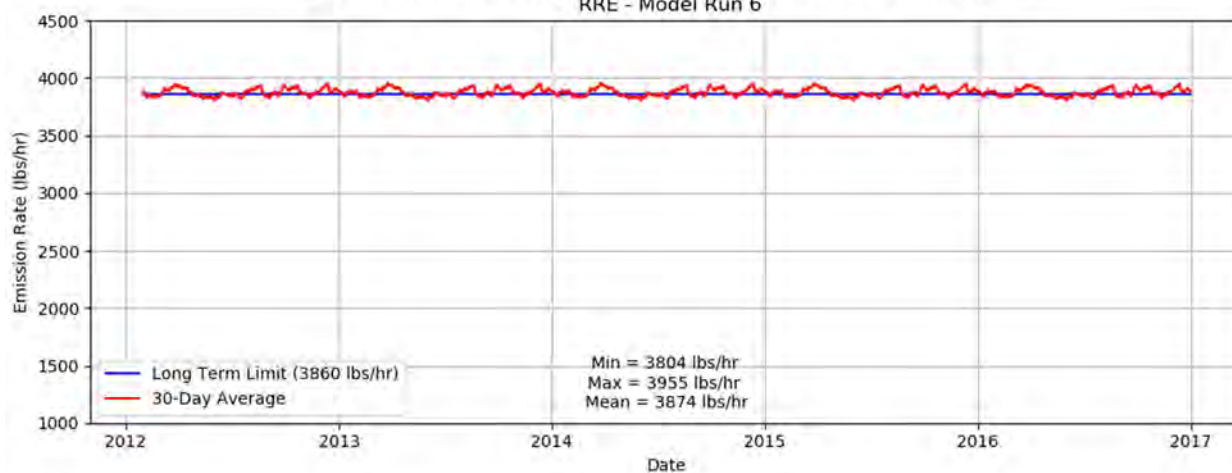
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 4



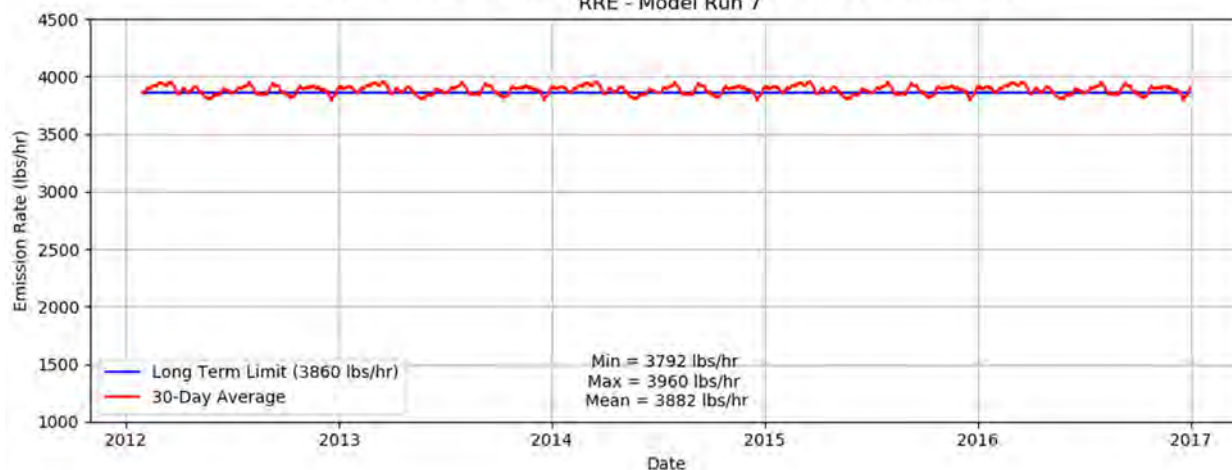
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 5



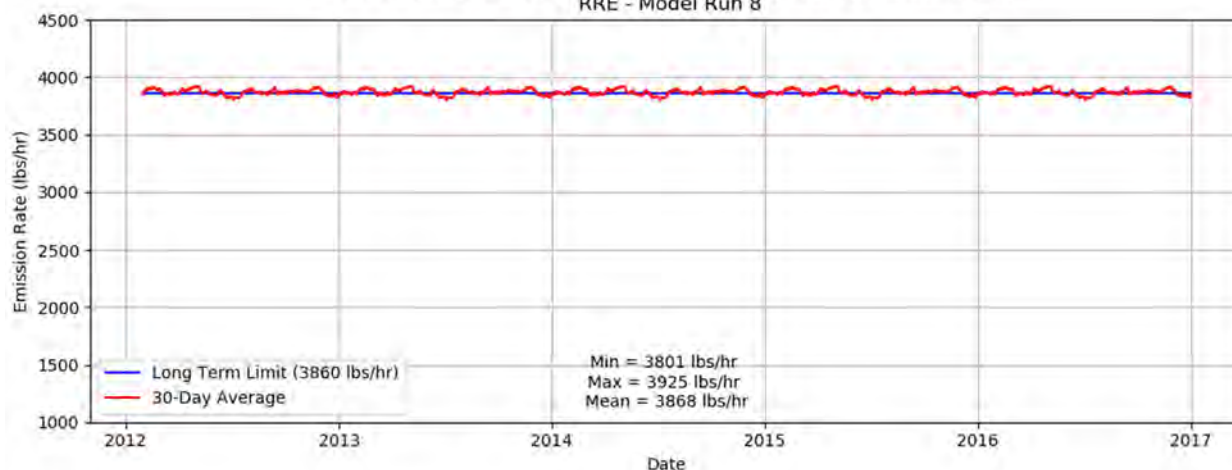
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 6



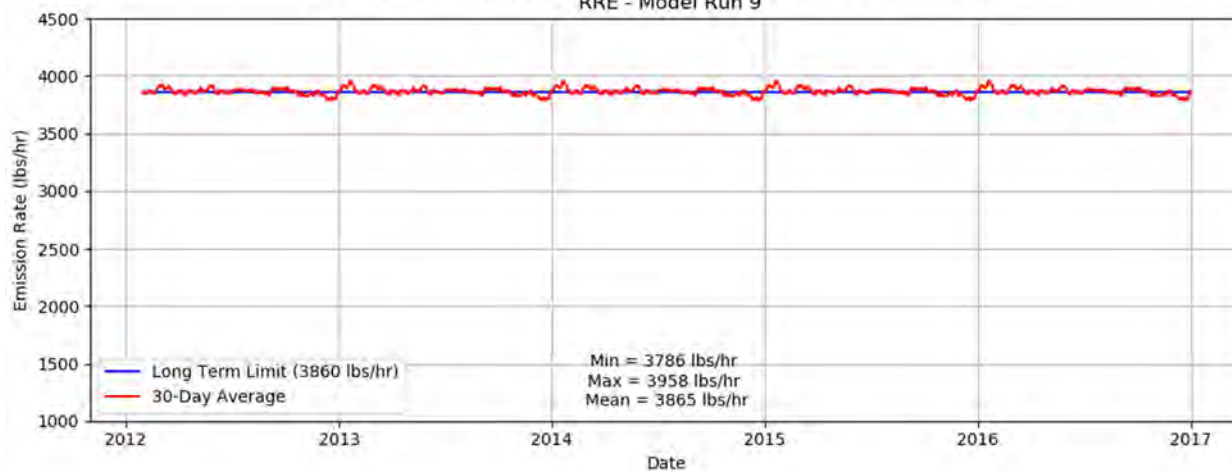
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 7



Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 8

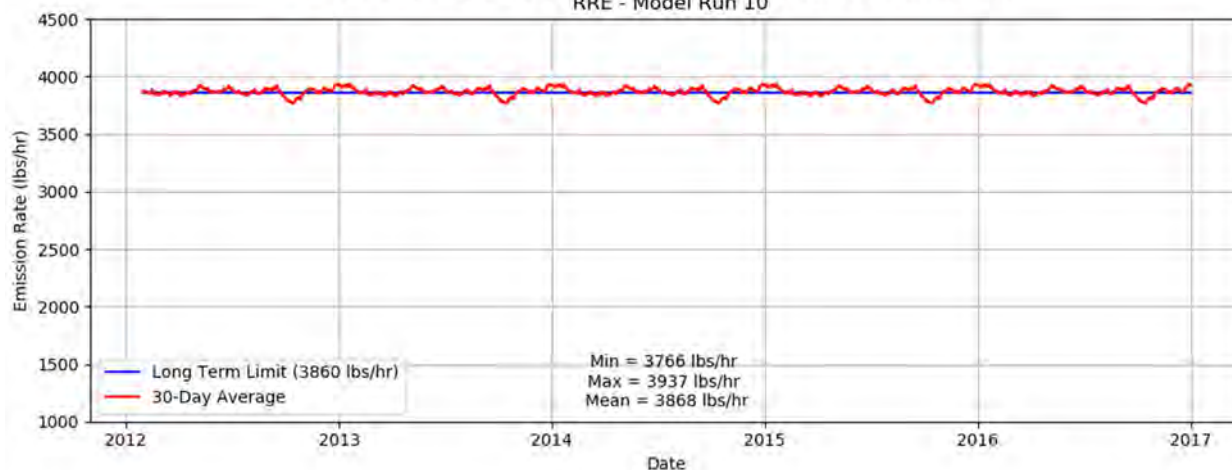


Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 9

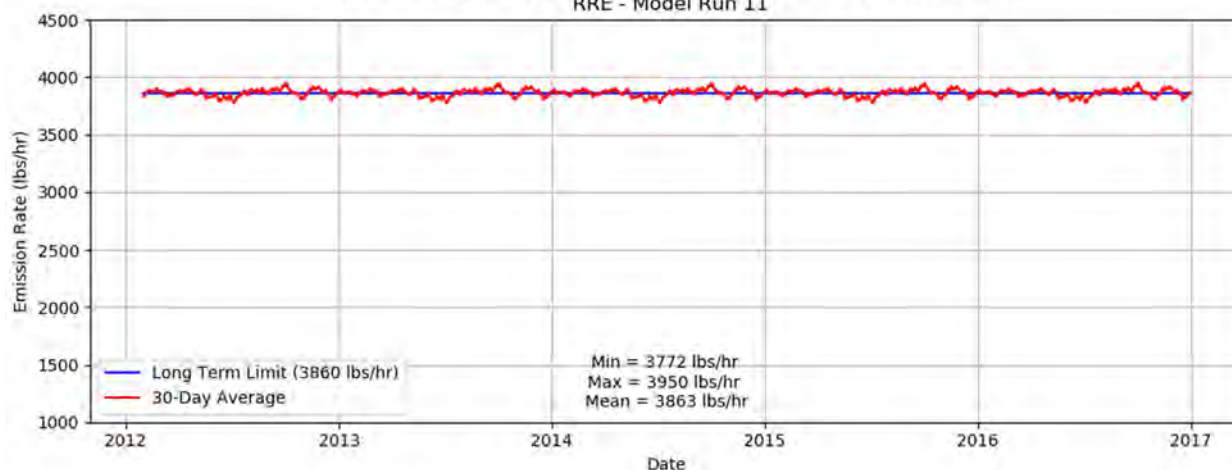




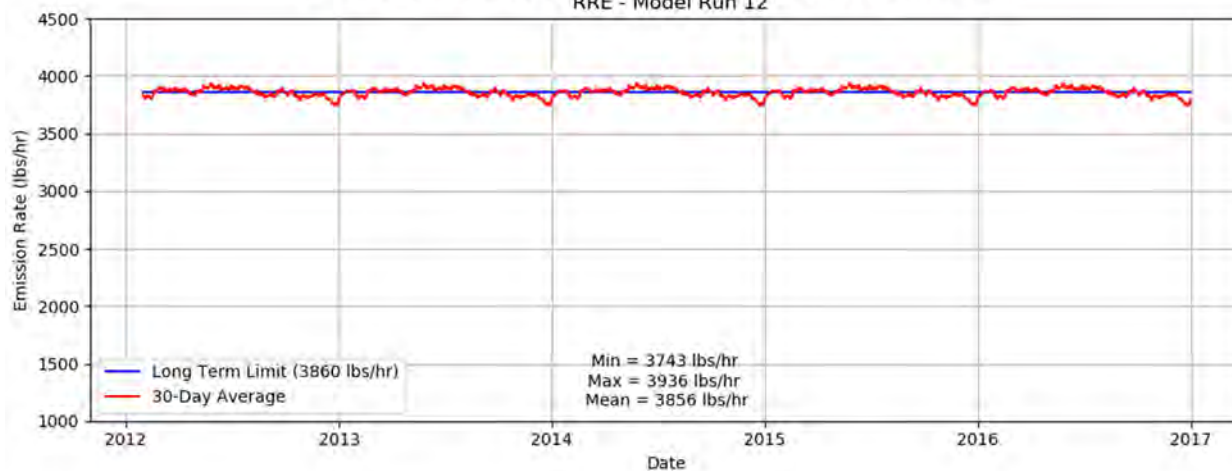
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 10



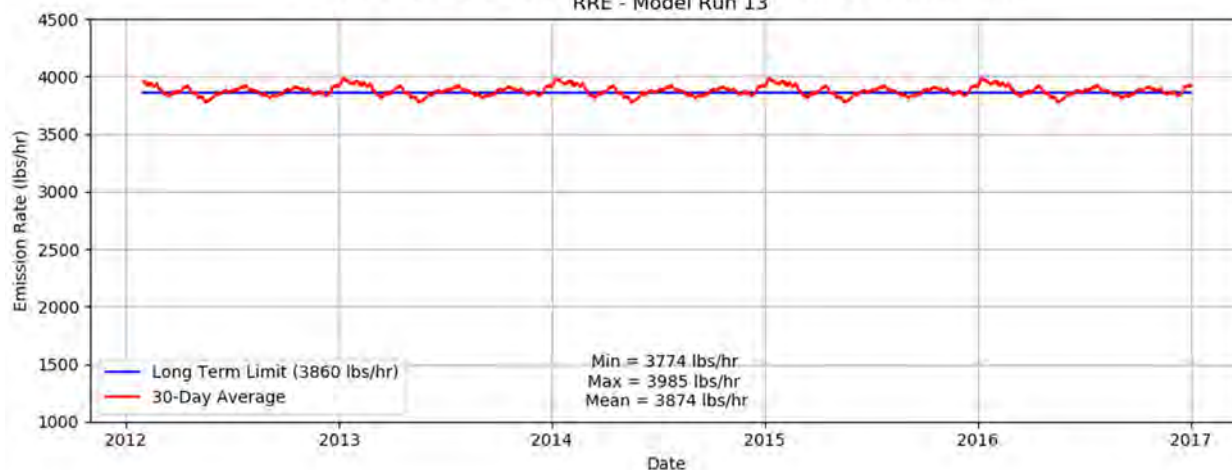
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 11



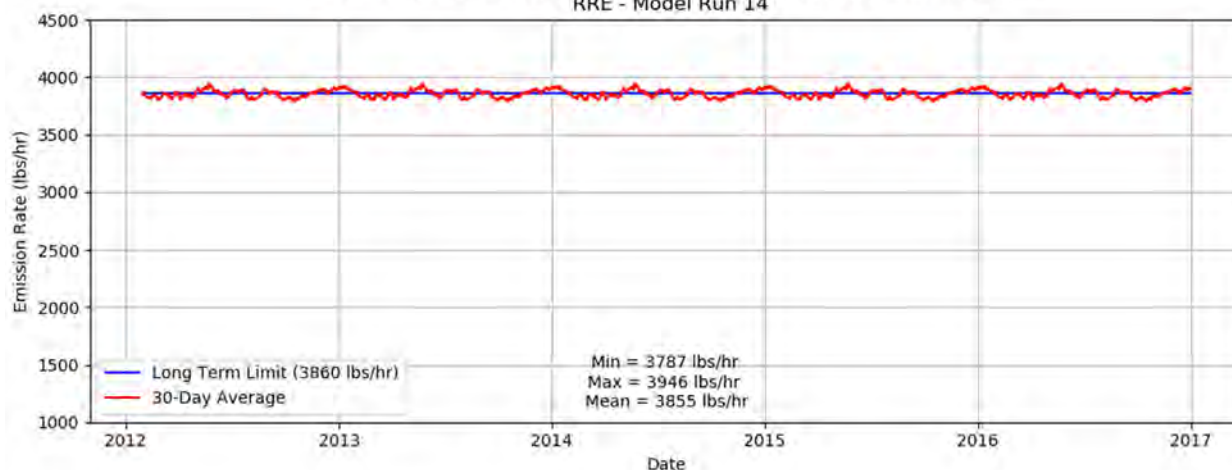
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 12



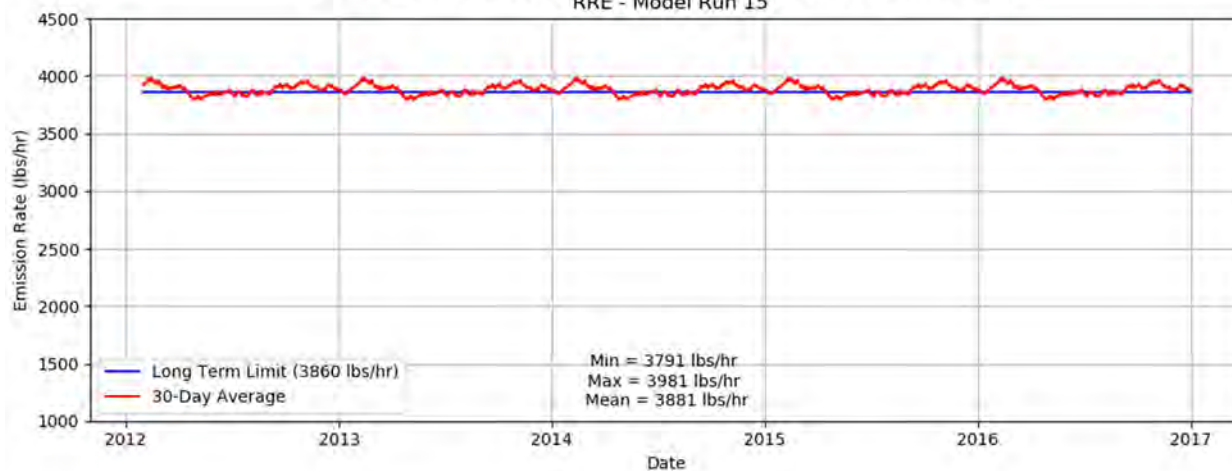
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 13



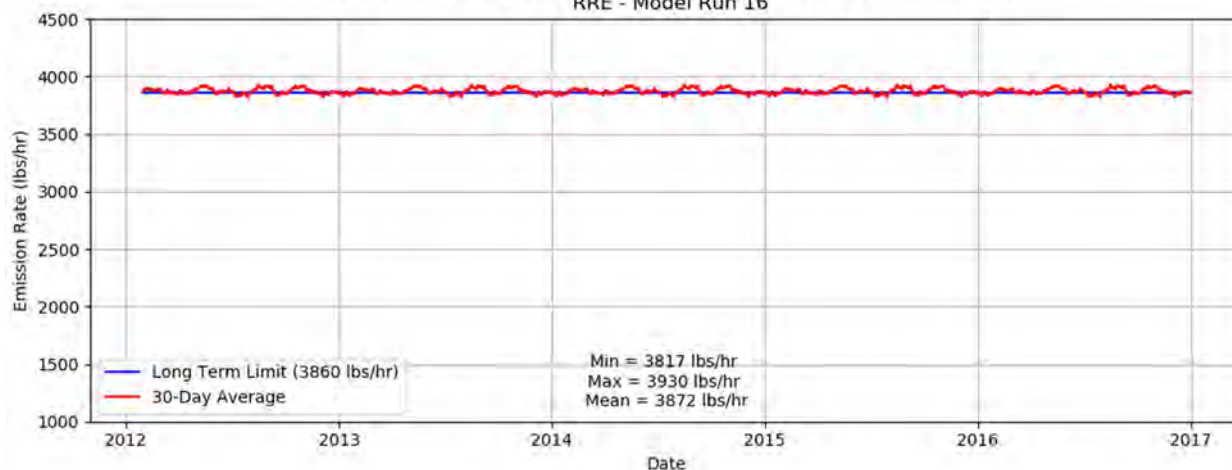
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 14



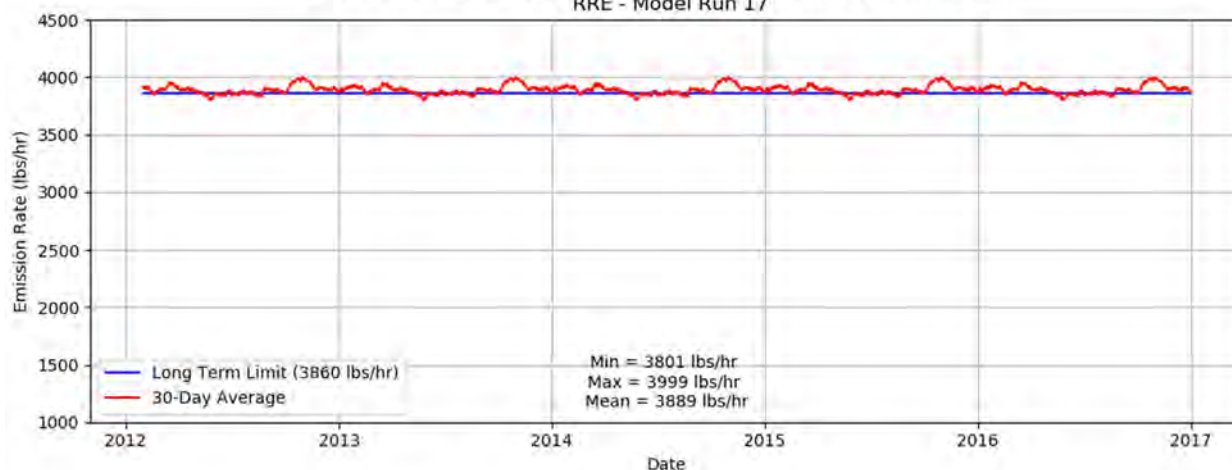
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 15



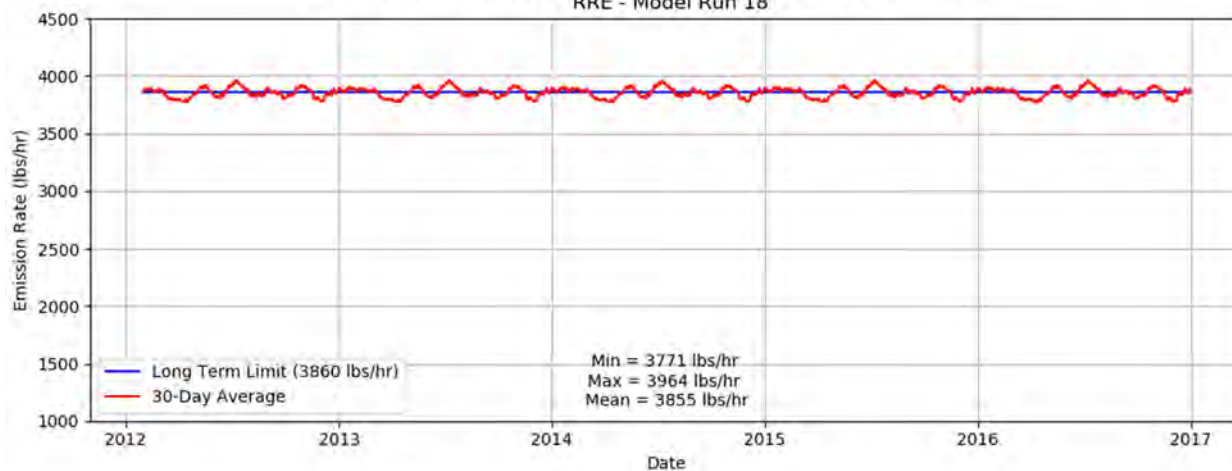
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 16



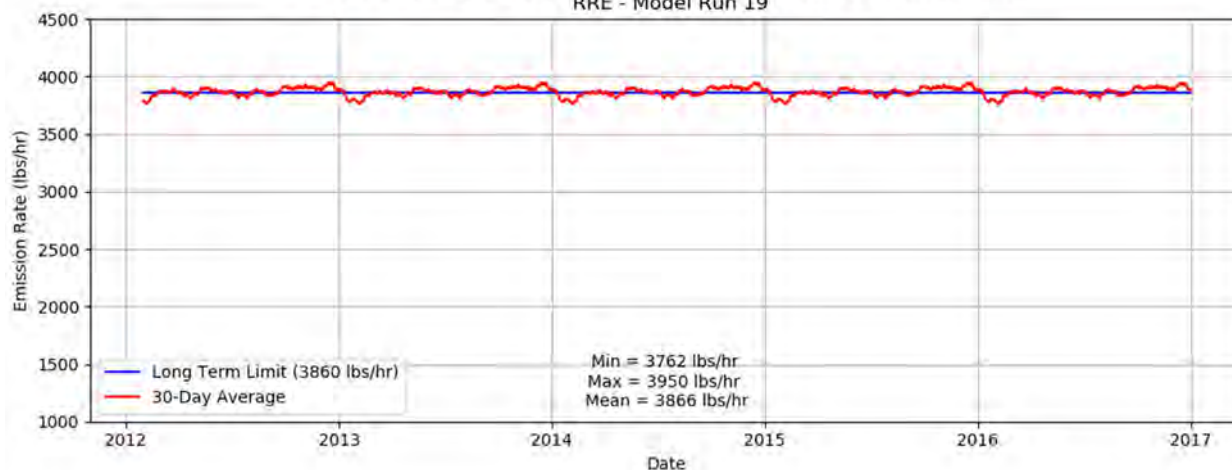
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 17



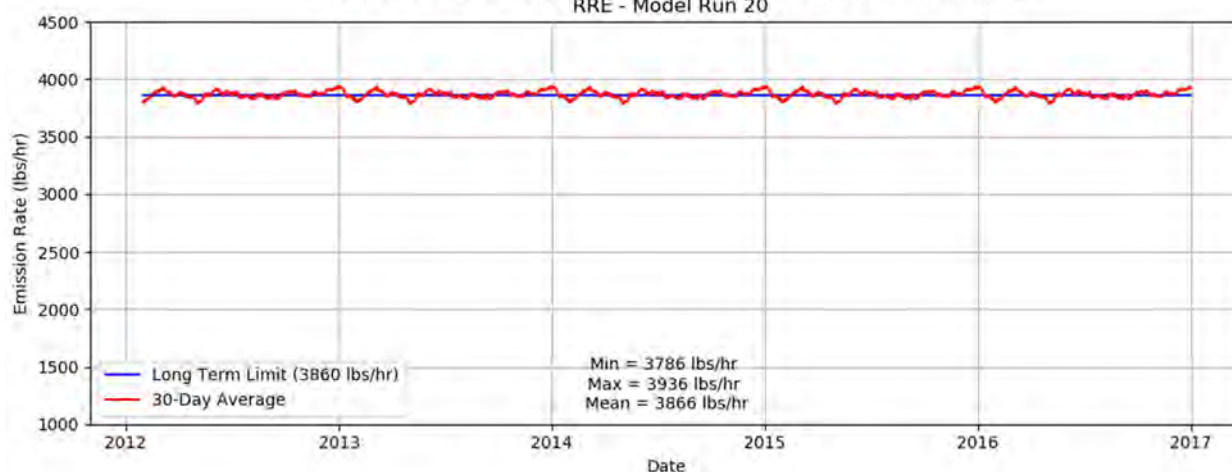
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 18



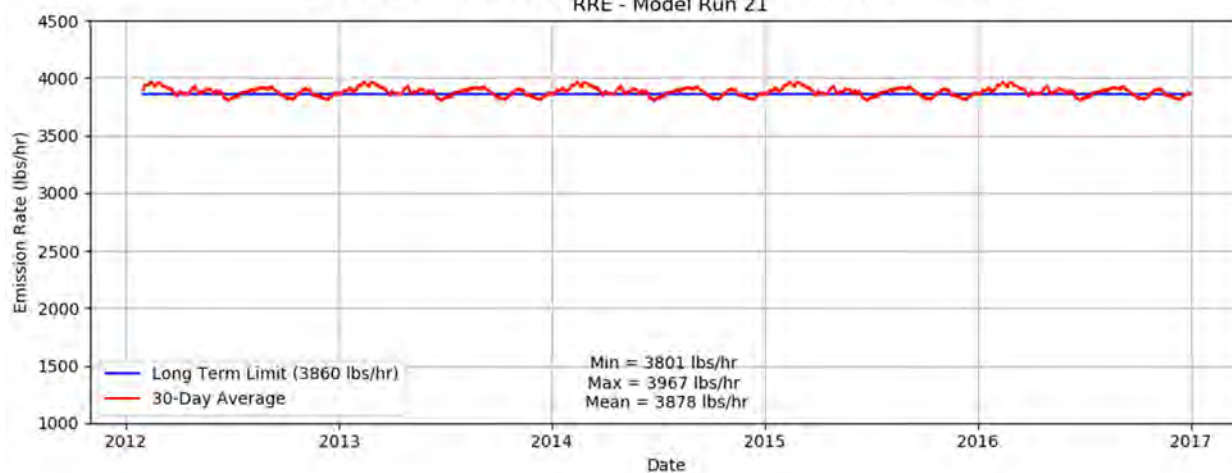
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 19



Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 20

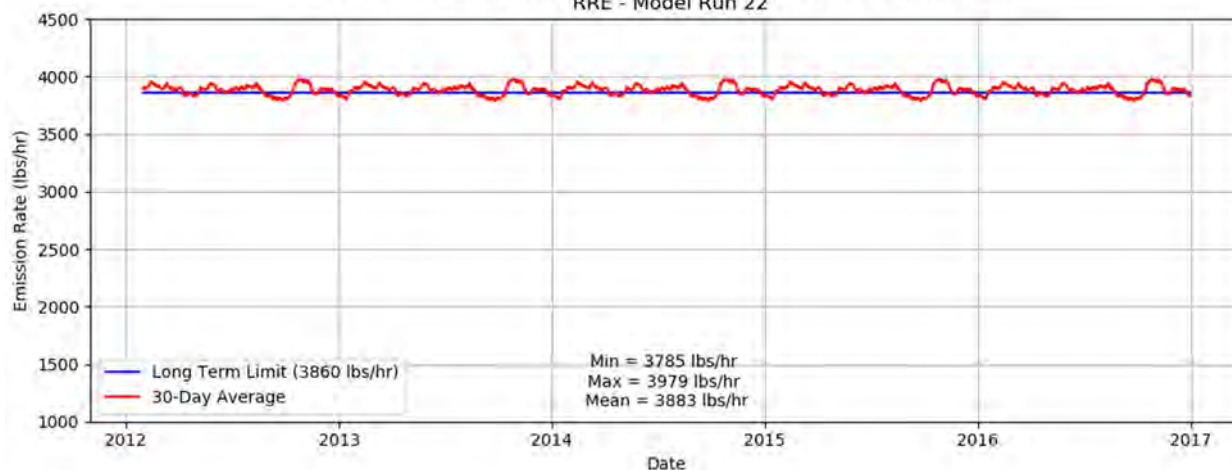


Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 21

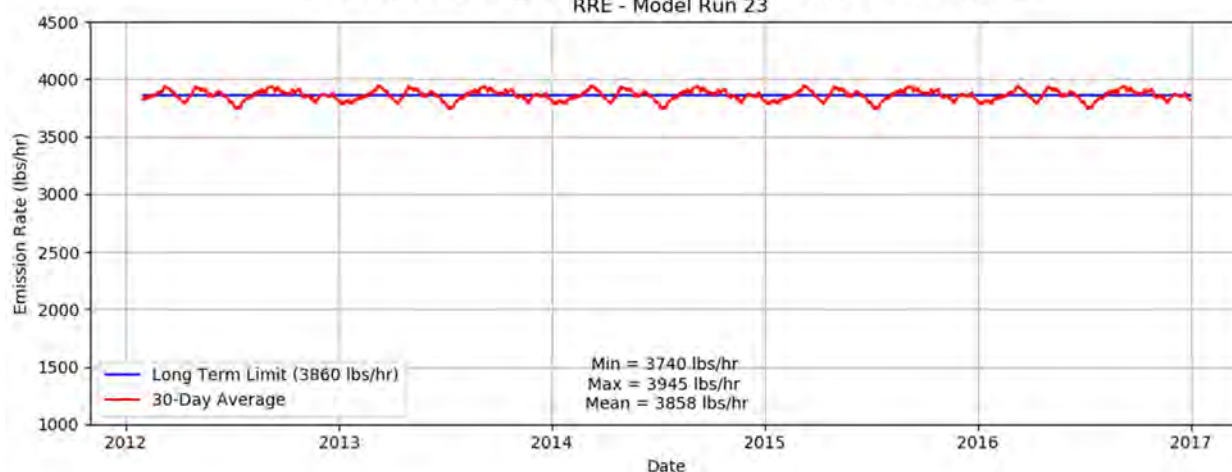




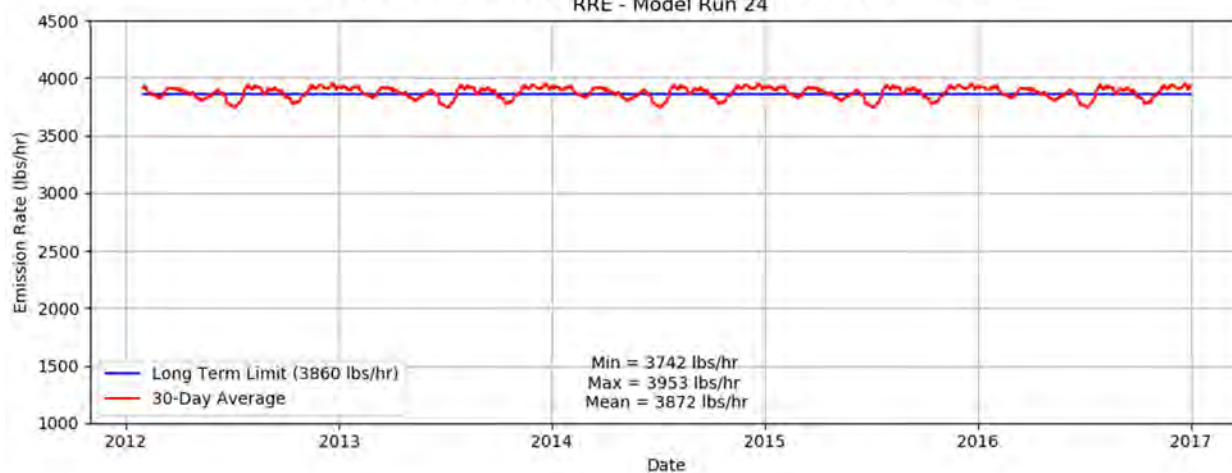
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 22



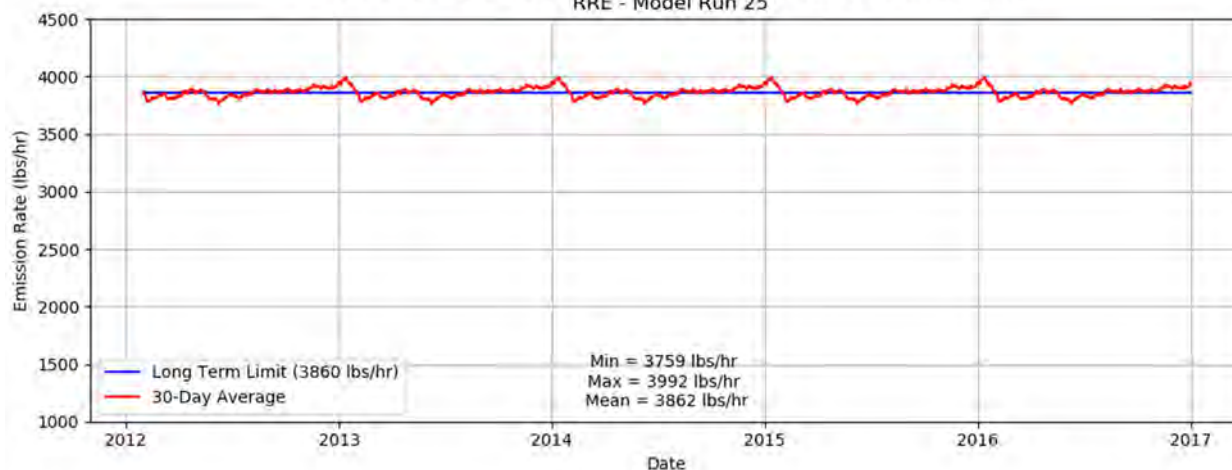
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 23



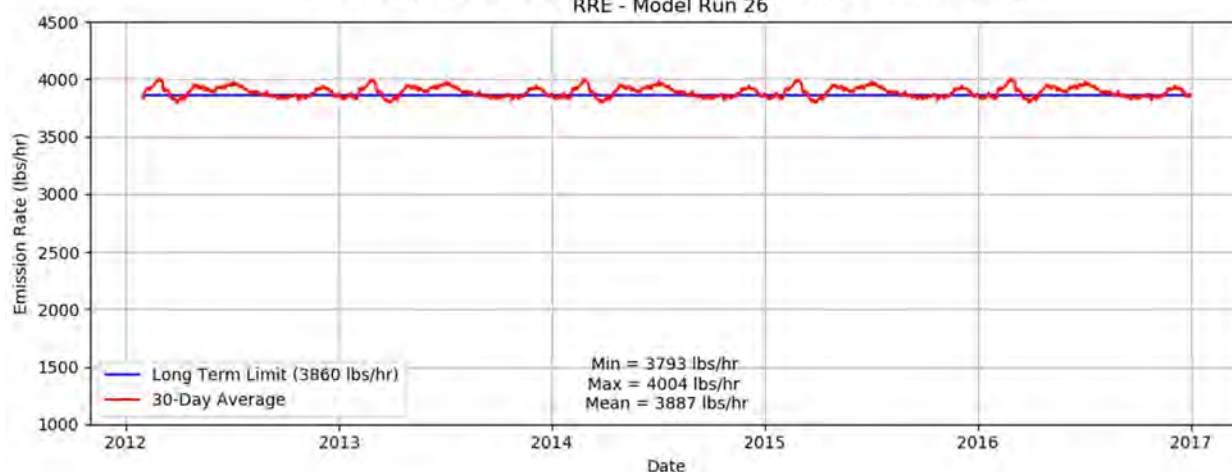
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 24



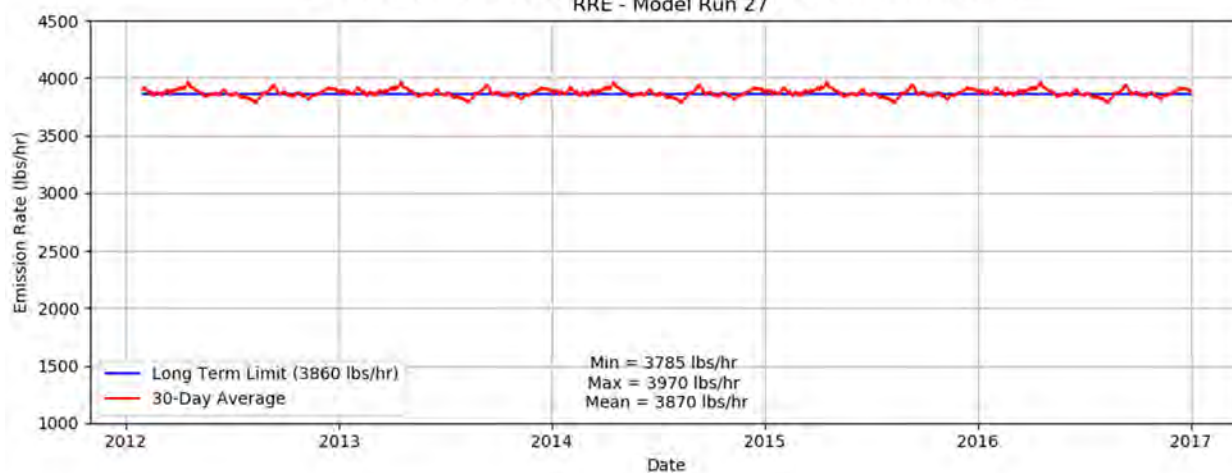
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 25



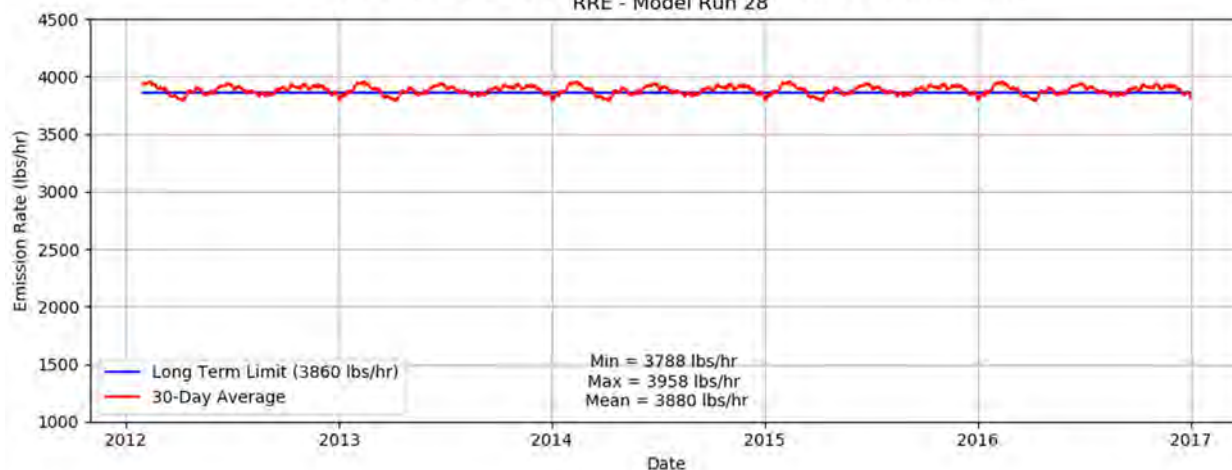
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 26



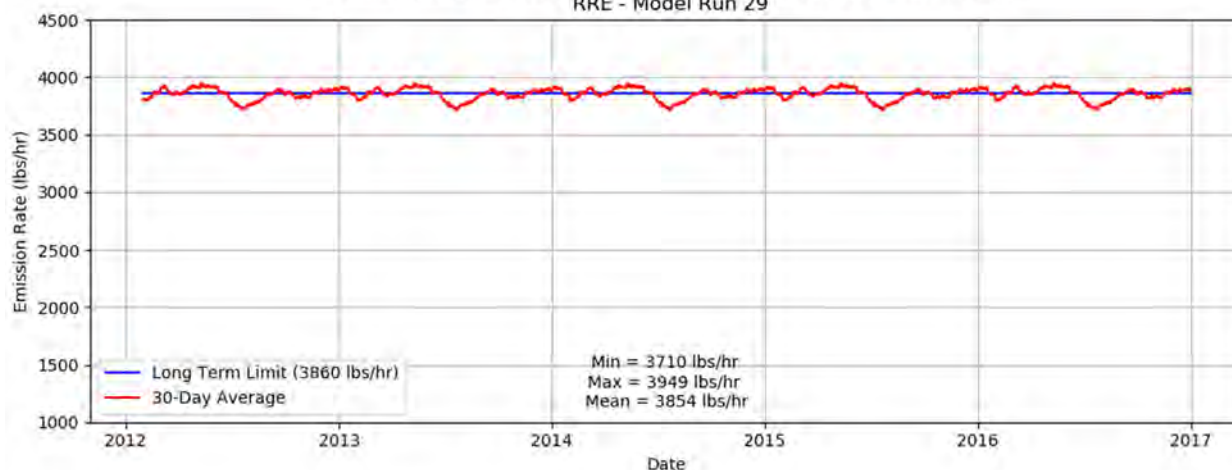
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 27



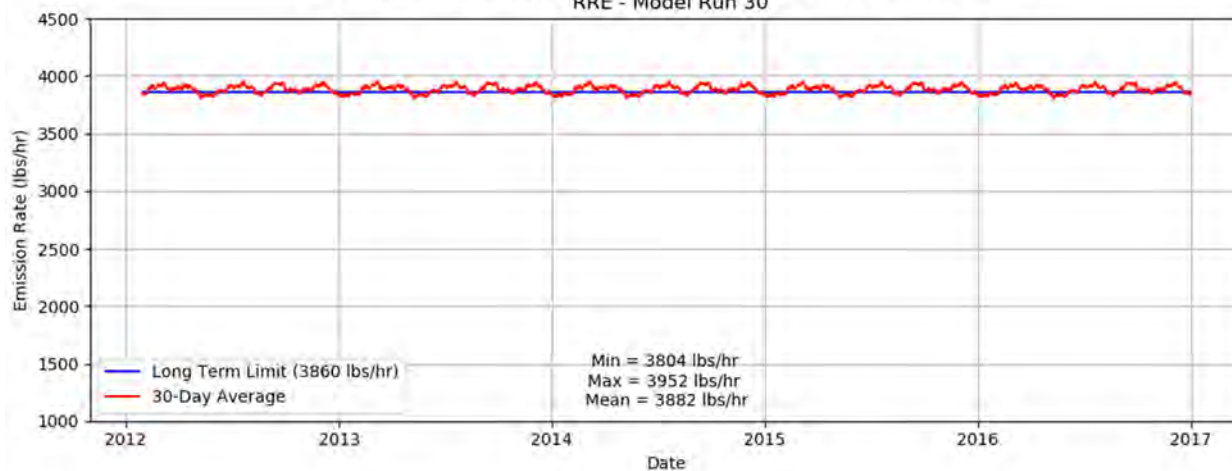
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 28



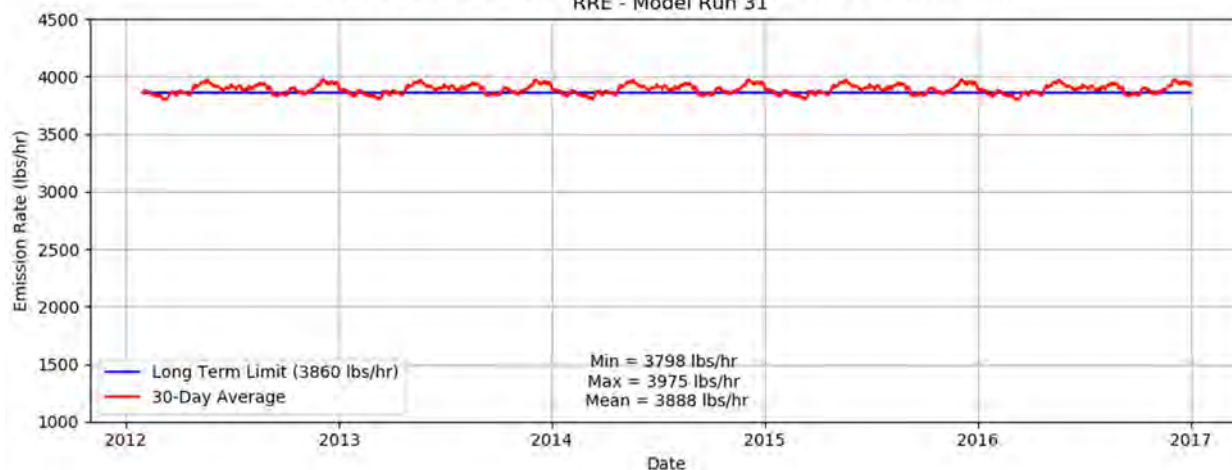
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 29



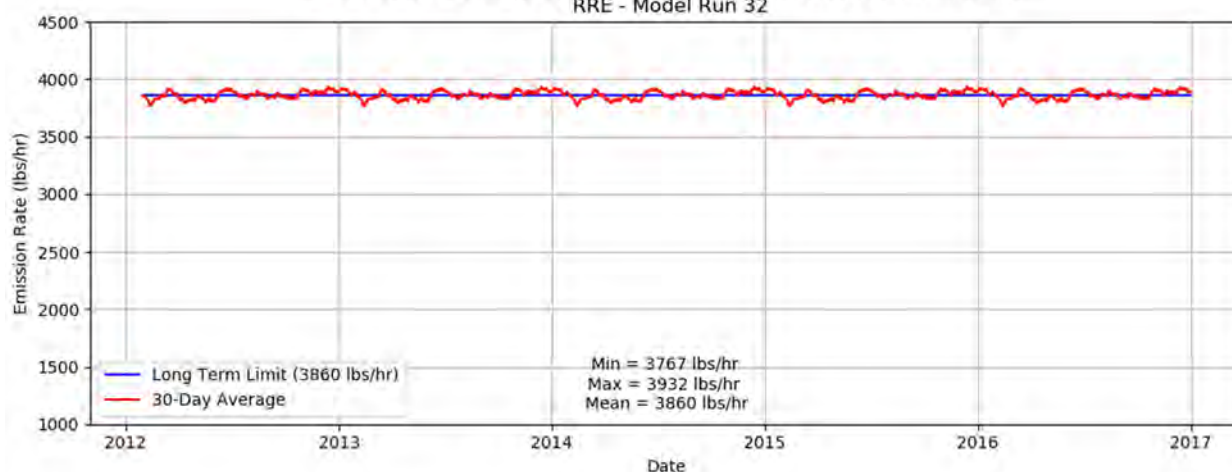
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 30



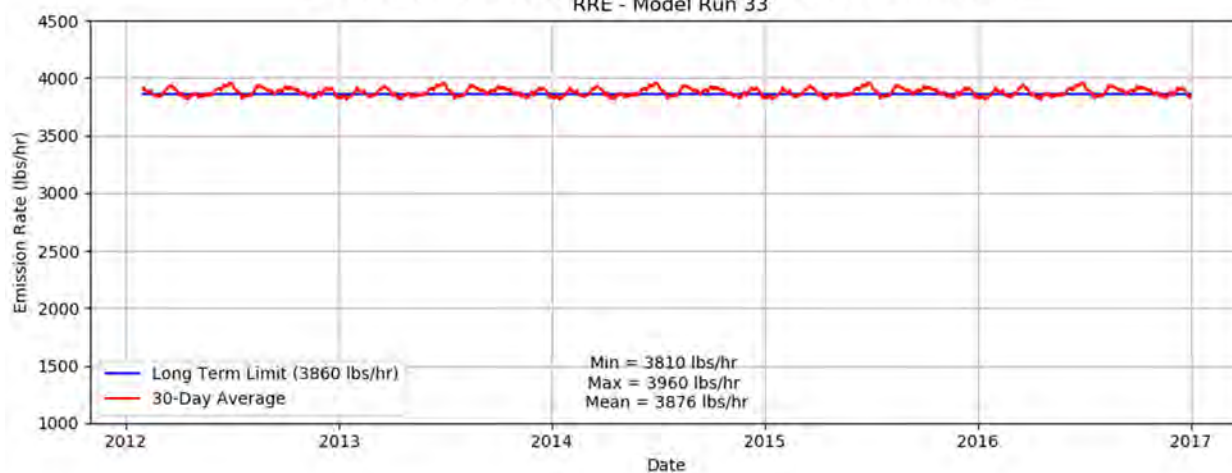
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 31



Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 32

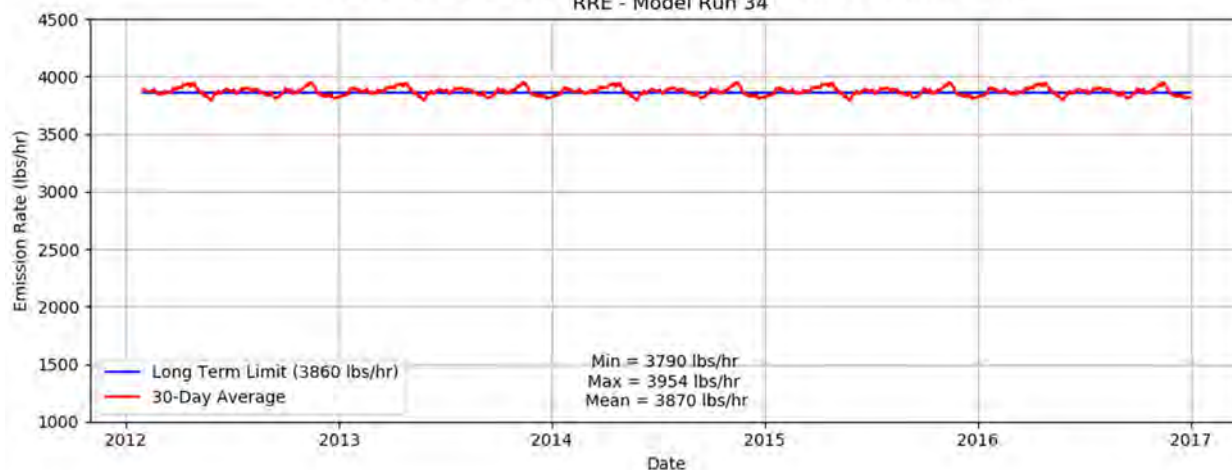


Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 33

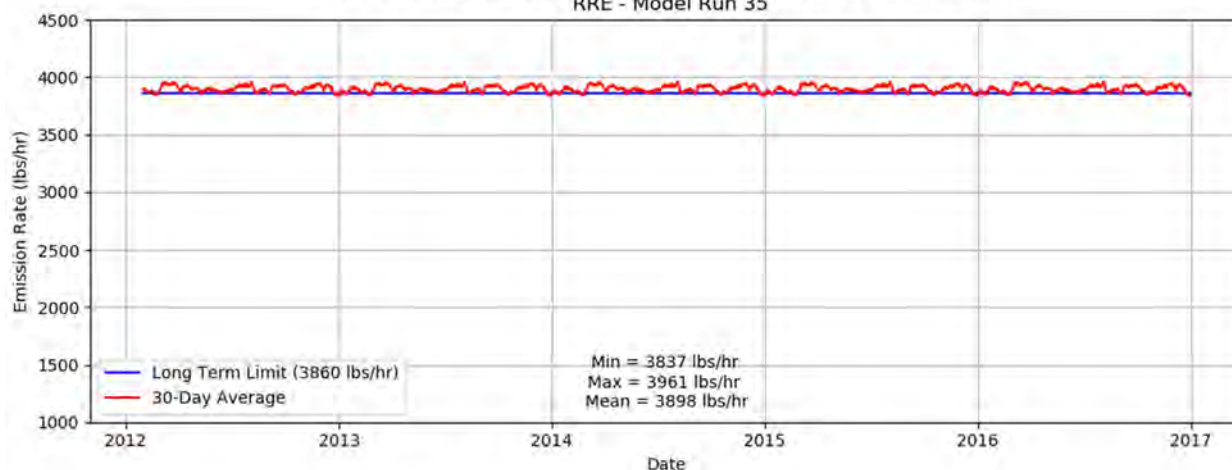




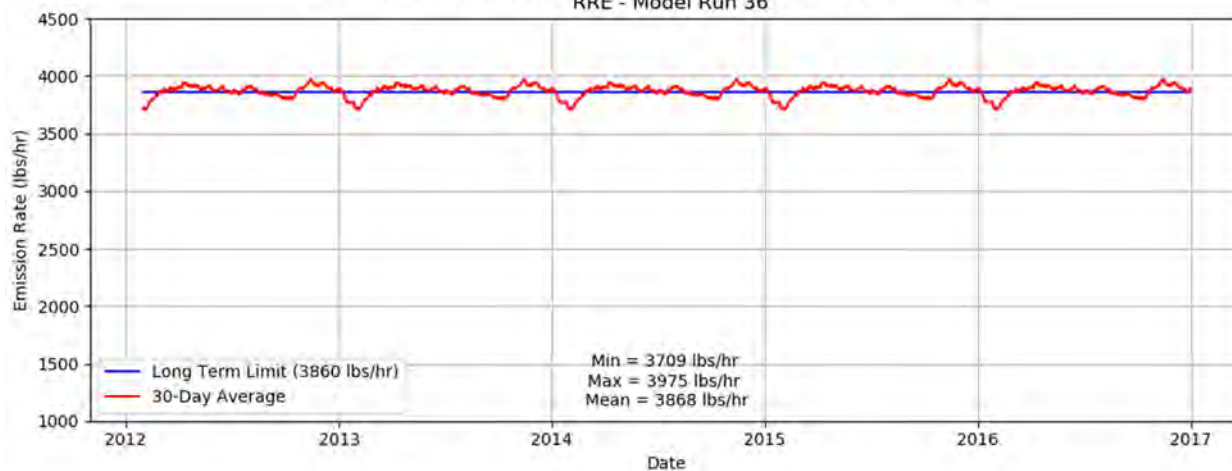
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 34



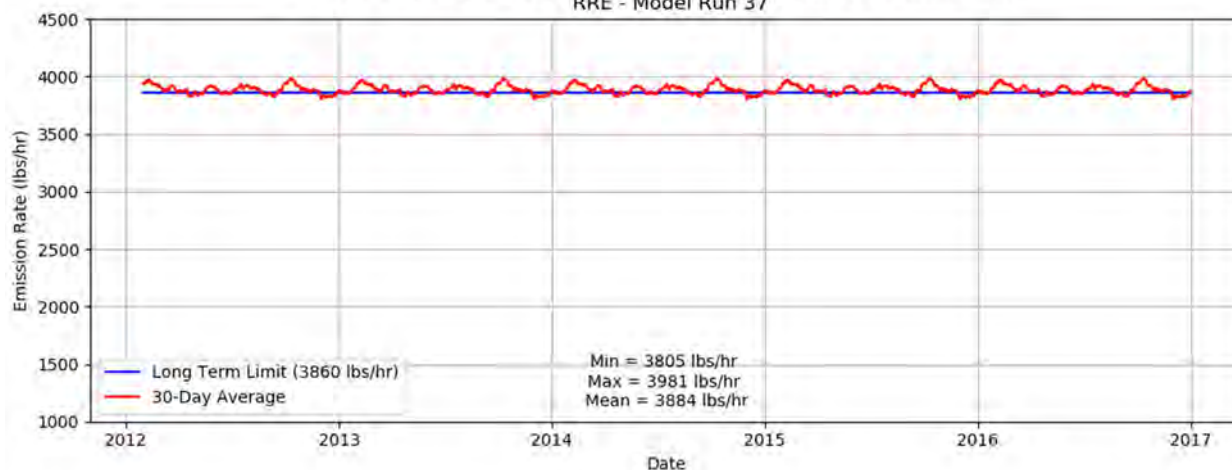
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 35



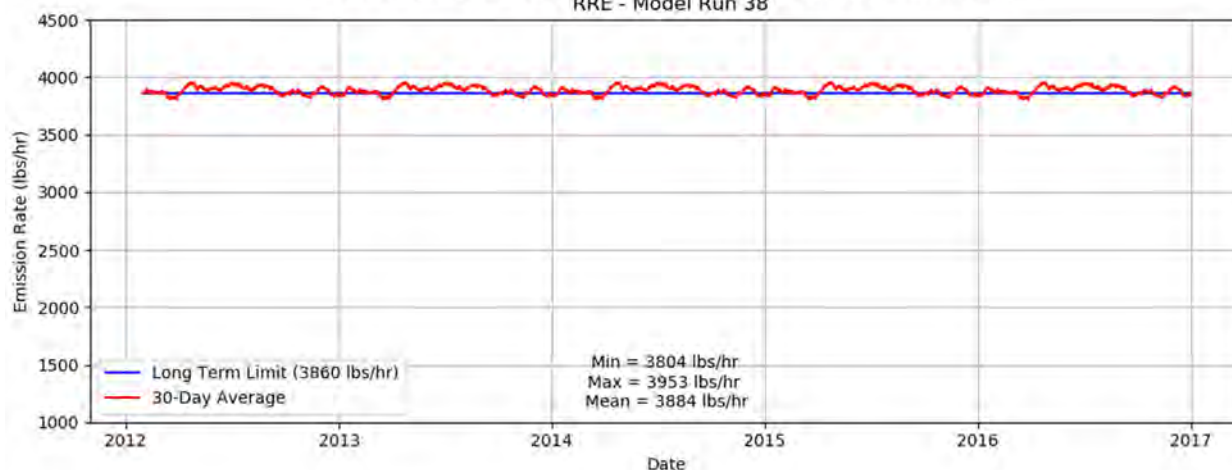
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 36



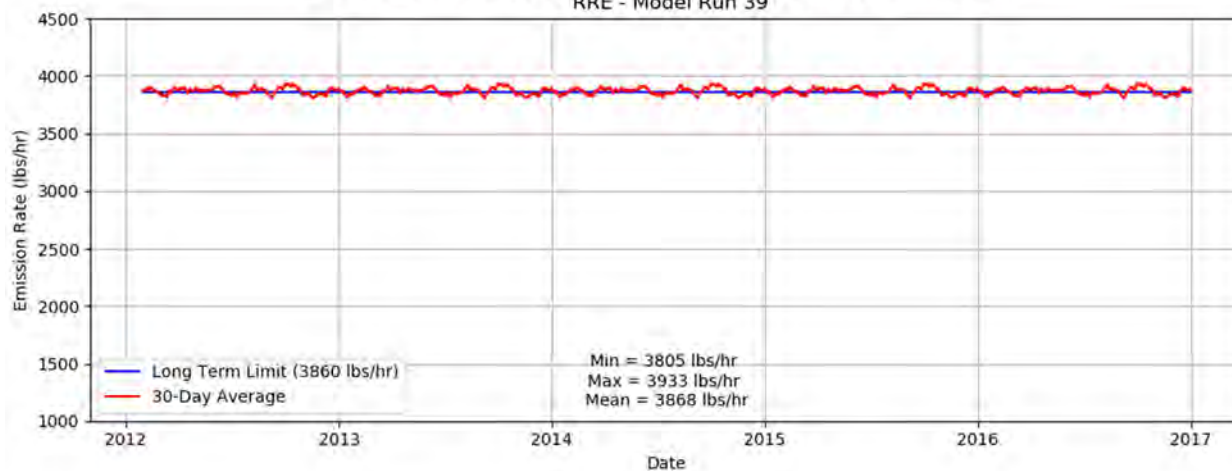
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 37



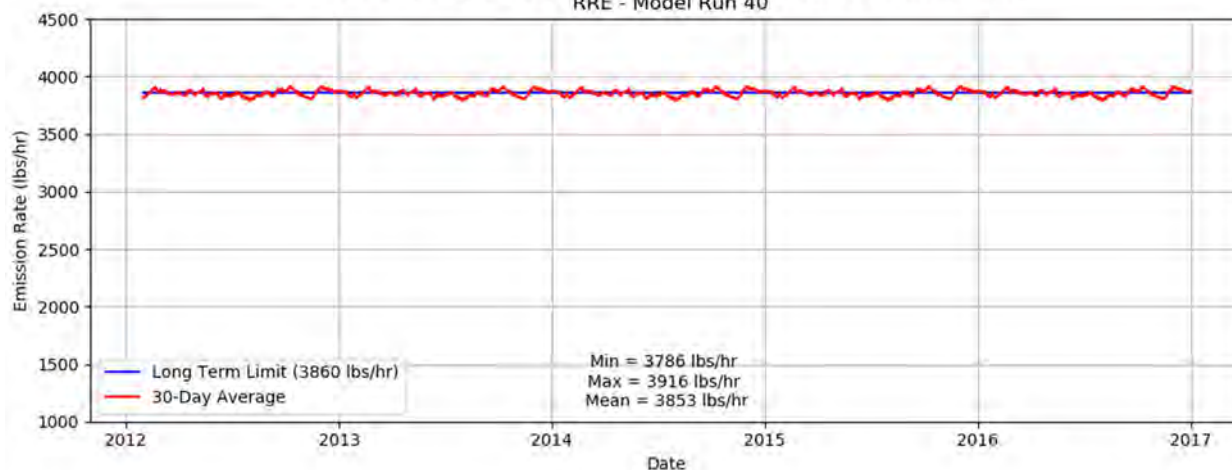
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 38



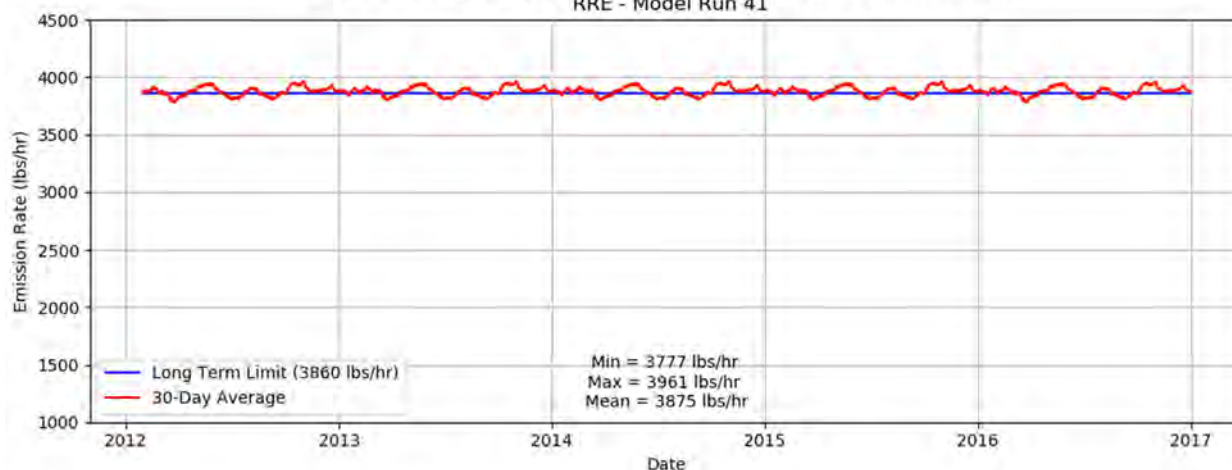
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 39



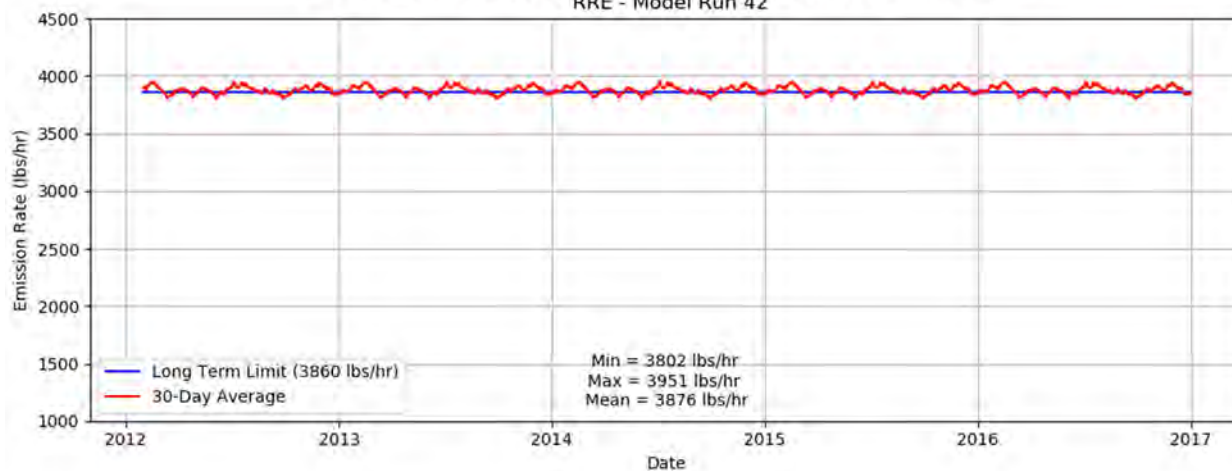
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 40



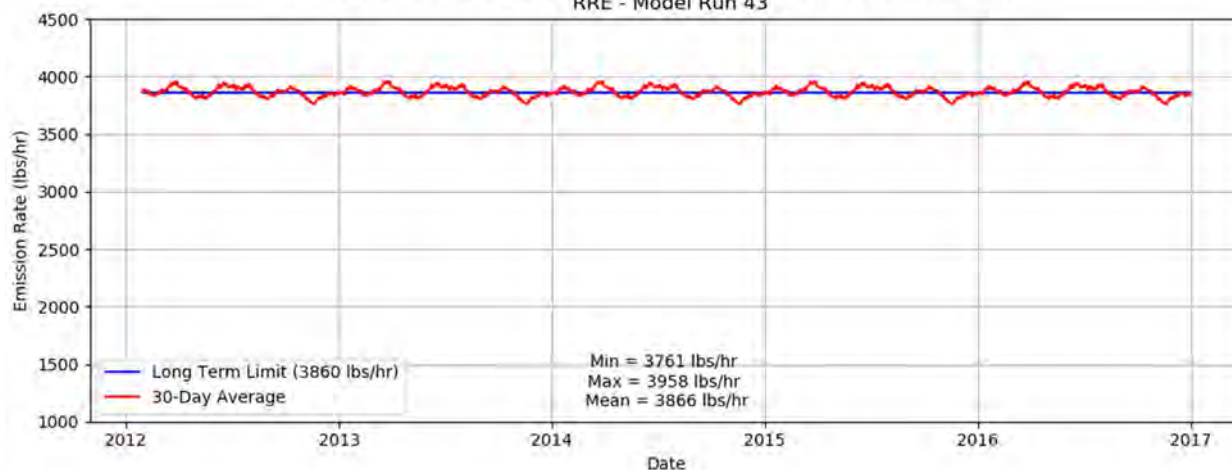
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 41



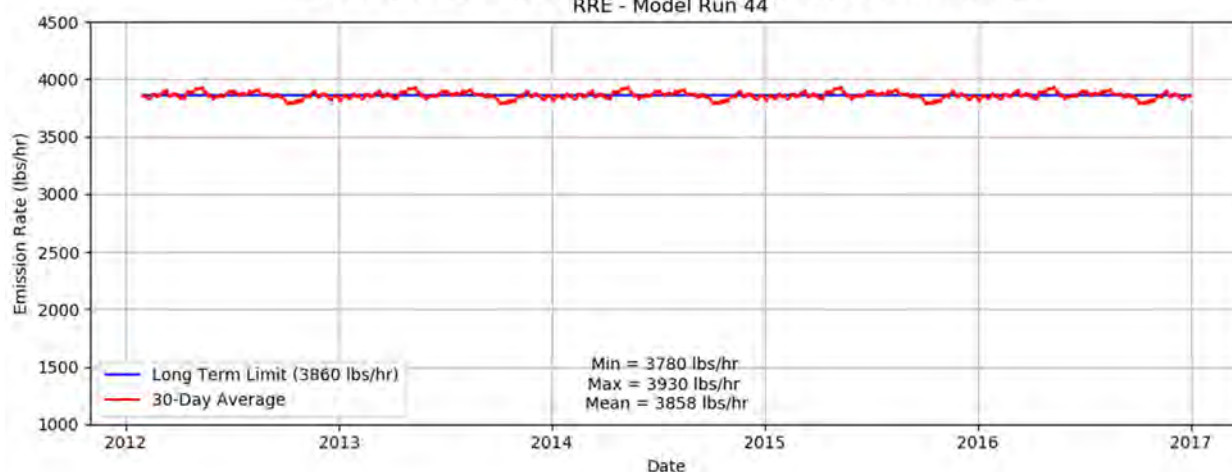
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 42



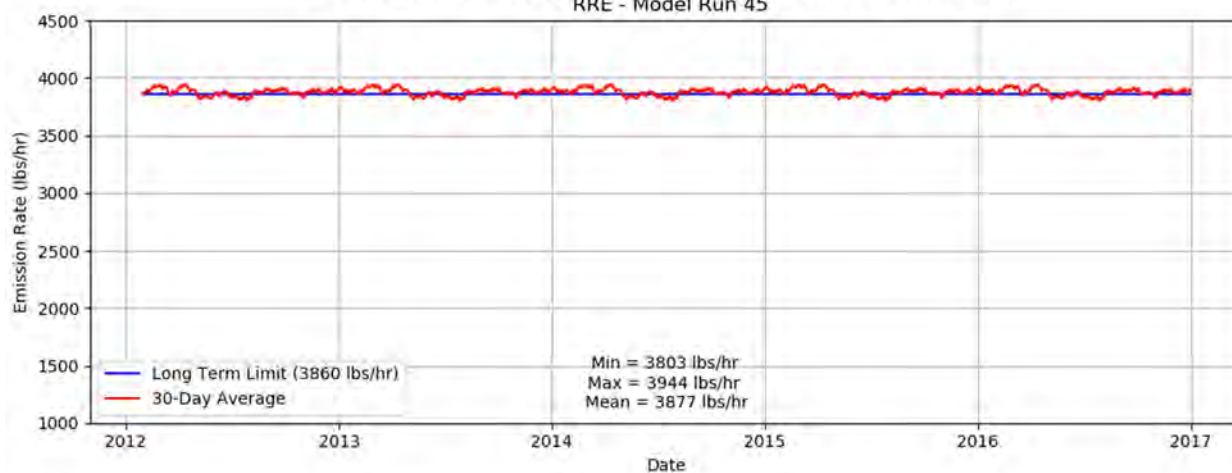
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 43



Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 44

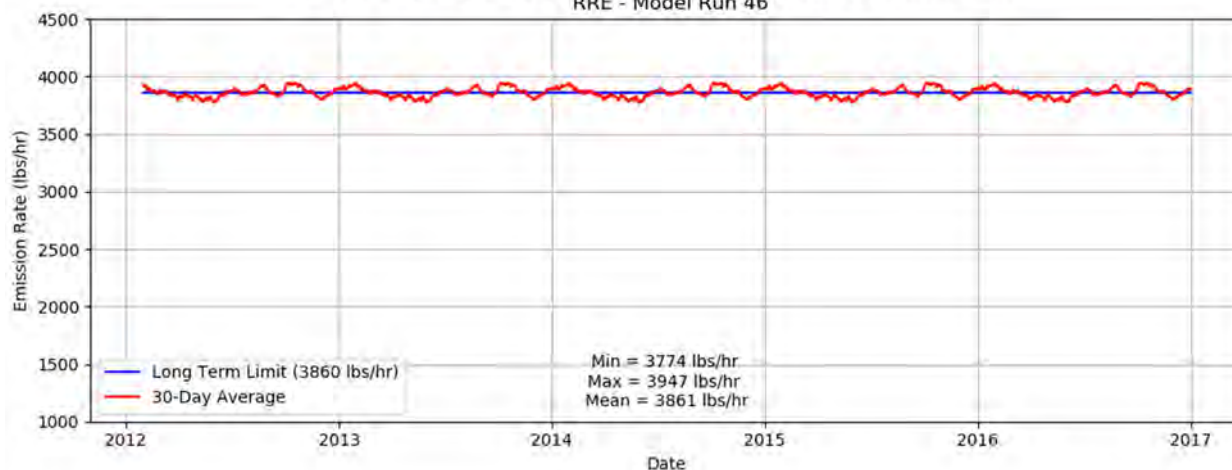


Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 45

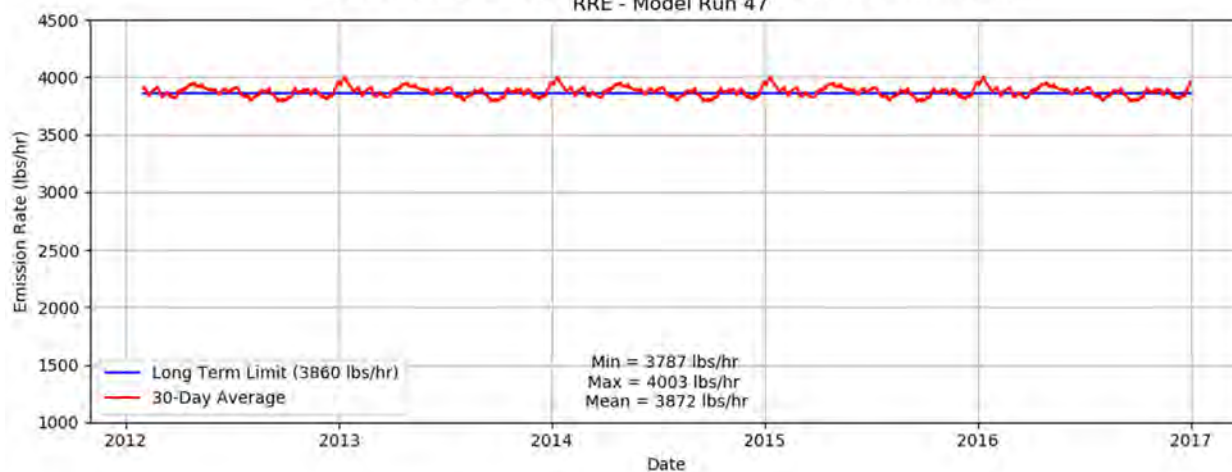




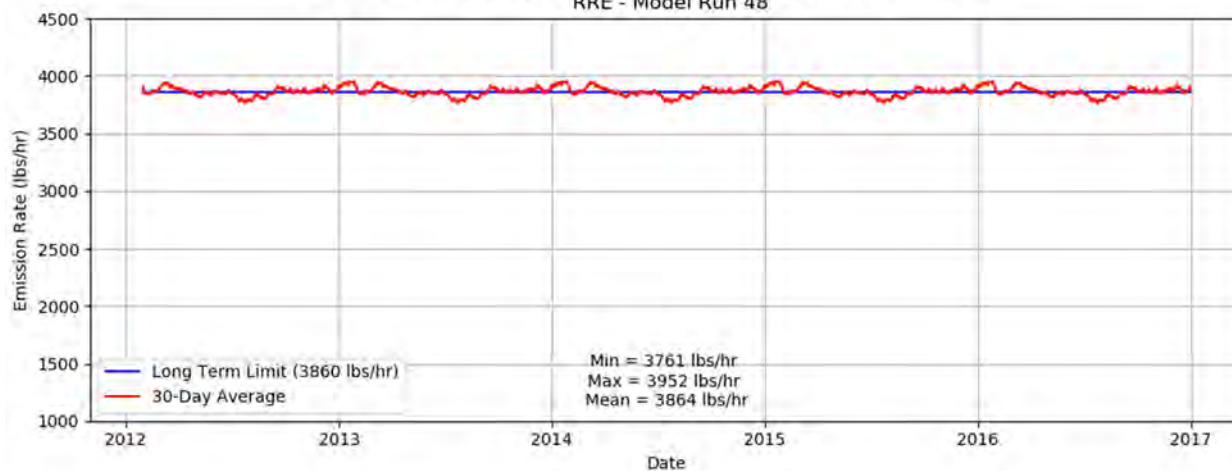
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 46



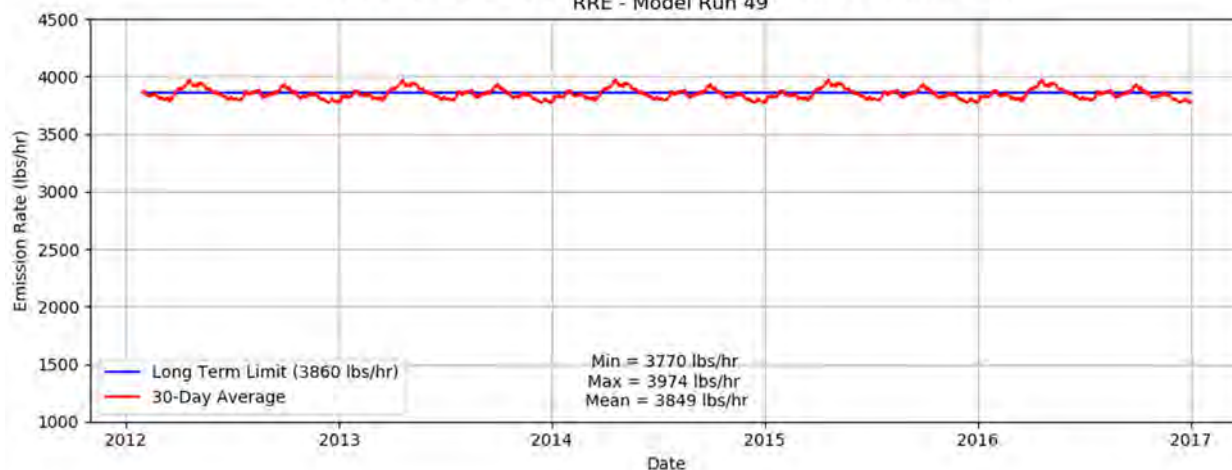
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 47



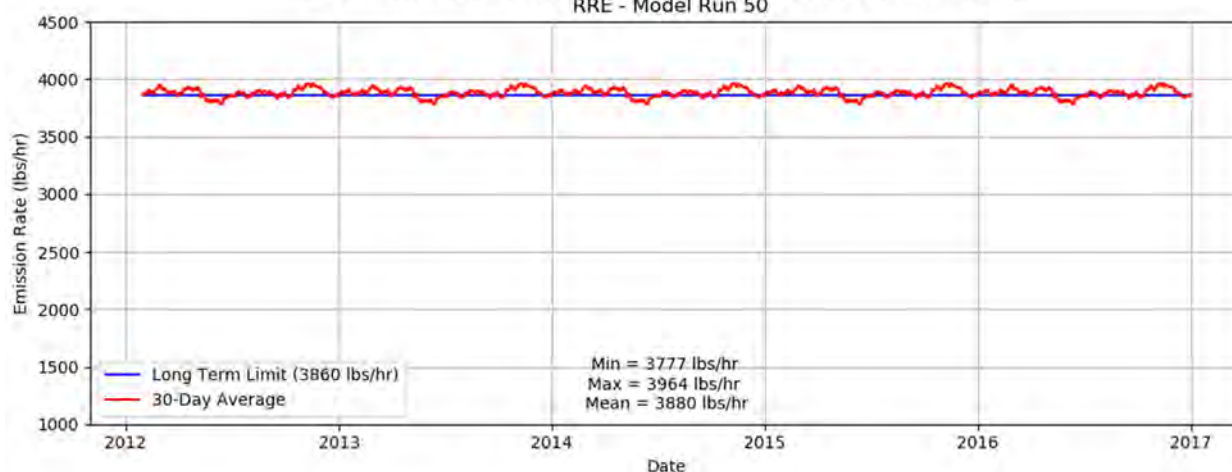
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 48



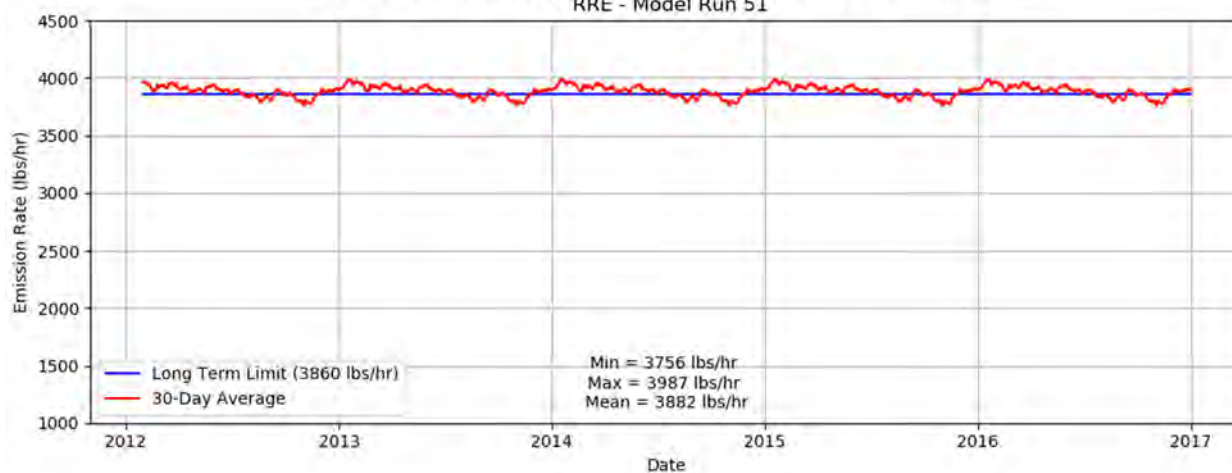
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 49



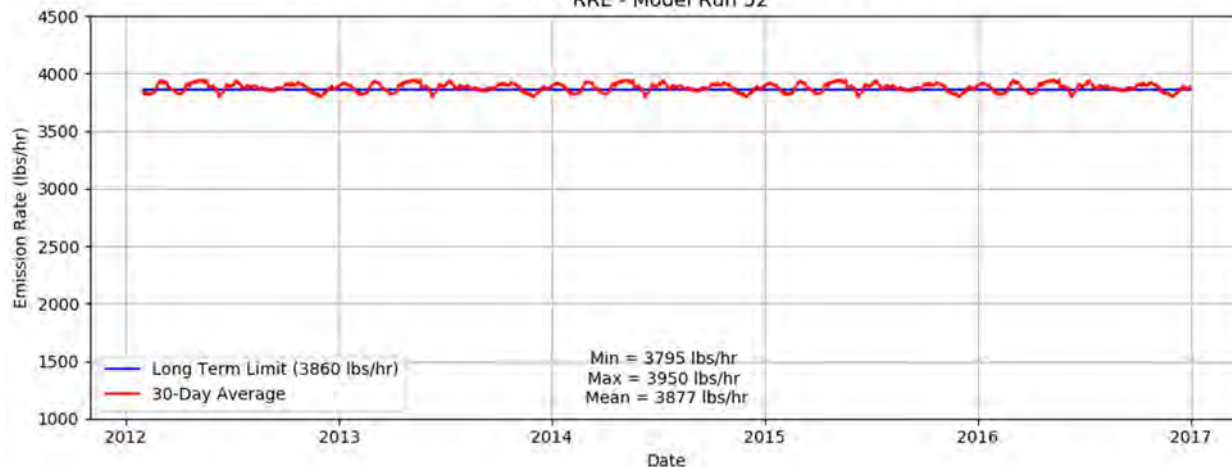
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 50



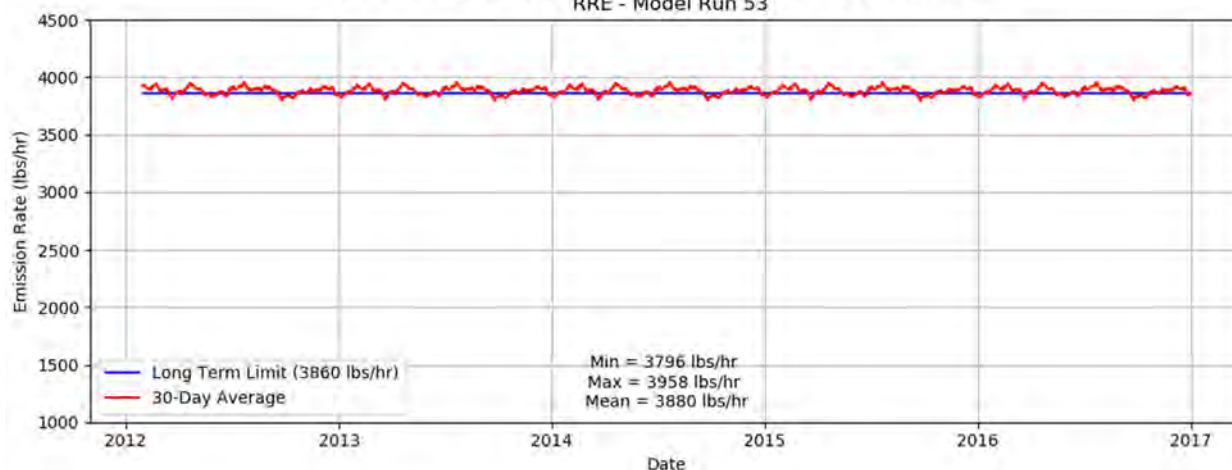
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 51



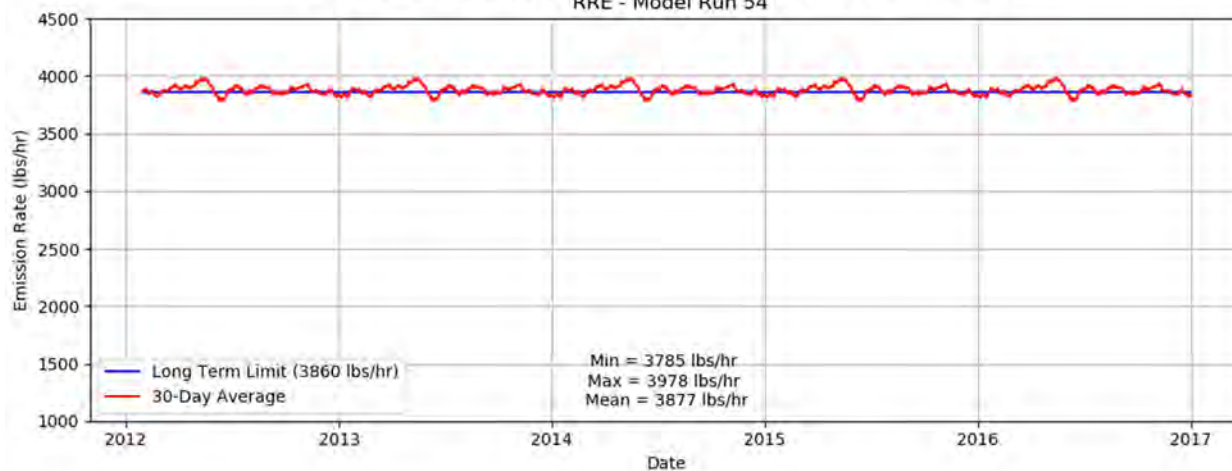
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 52



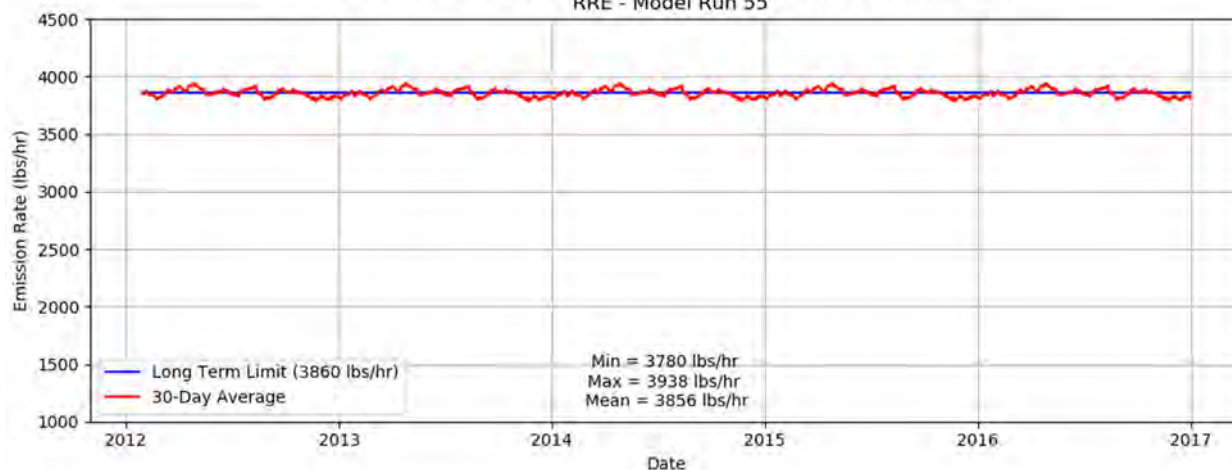
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 53



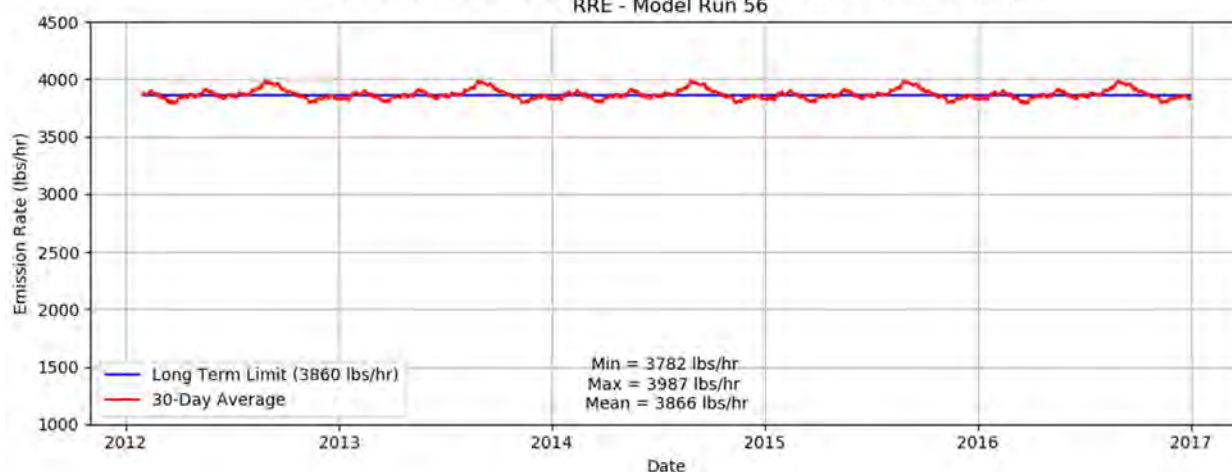
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 54



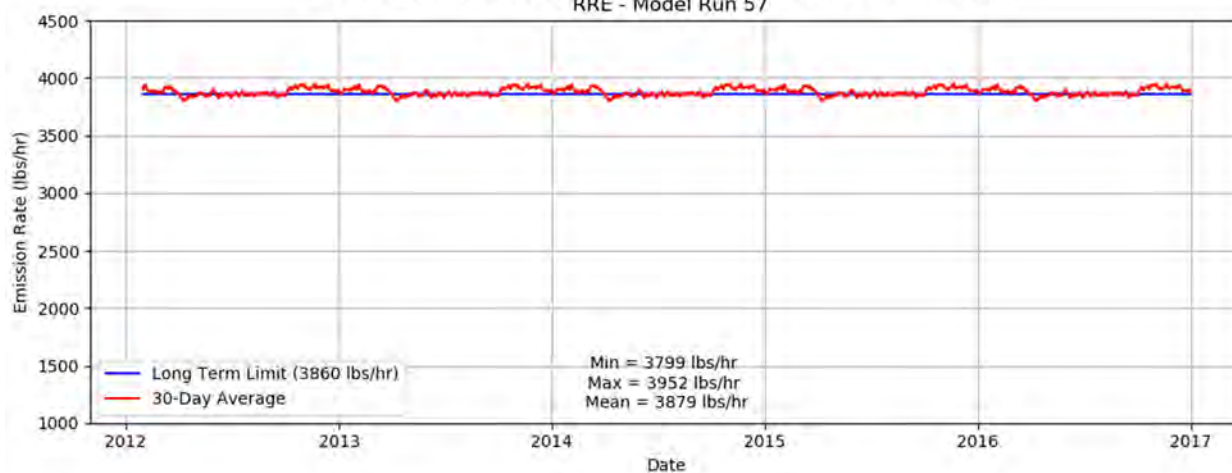
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 55



Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 56

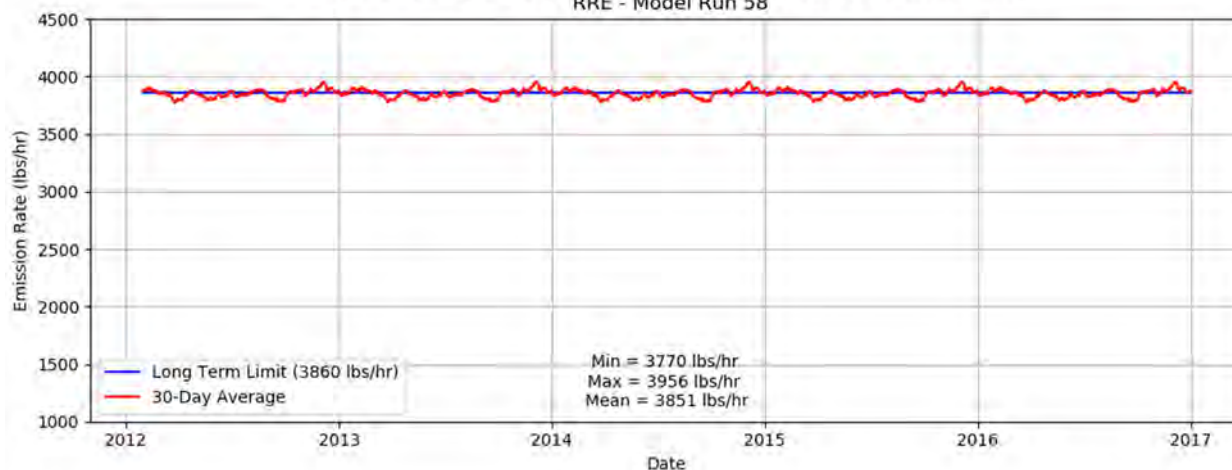


Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 57

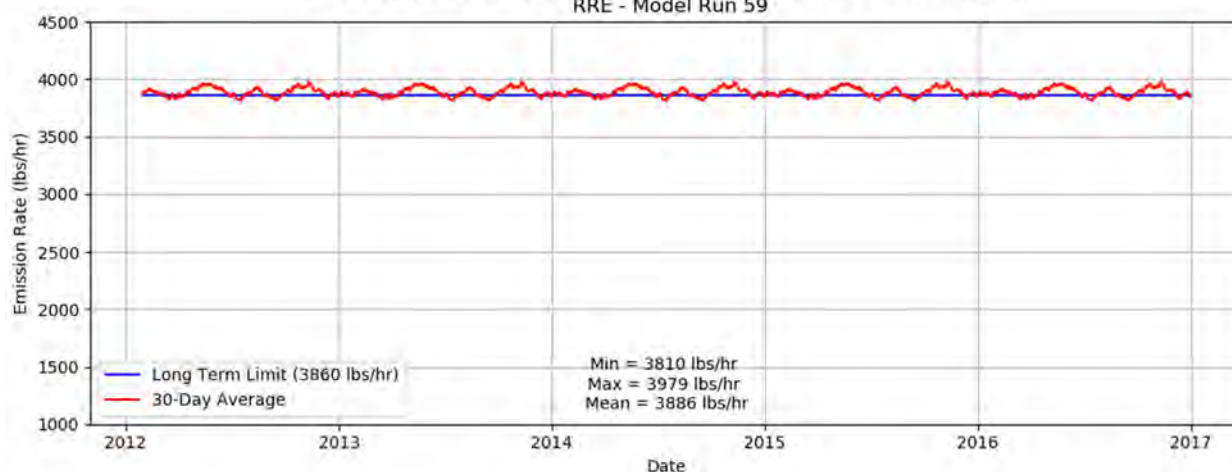




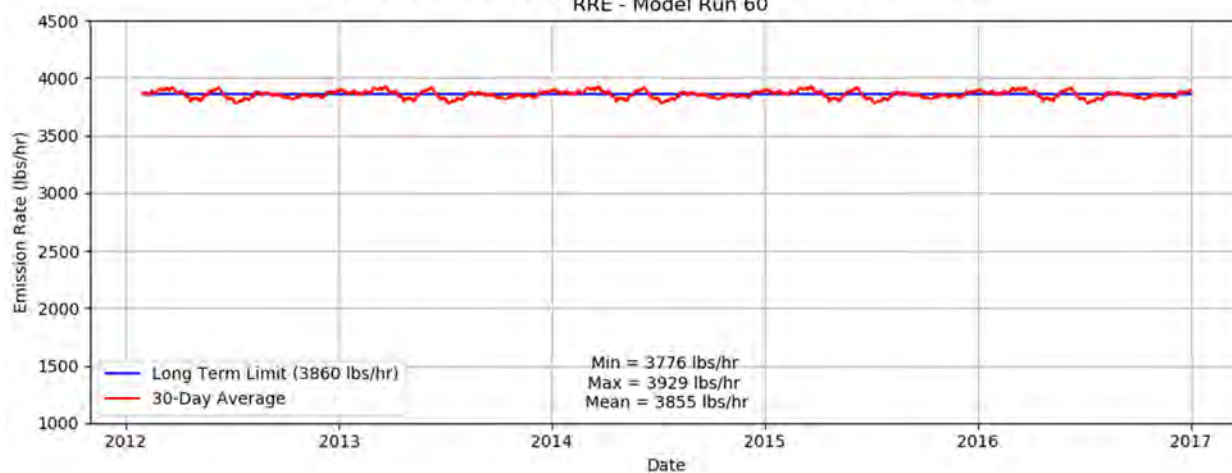
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 58



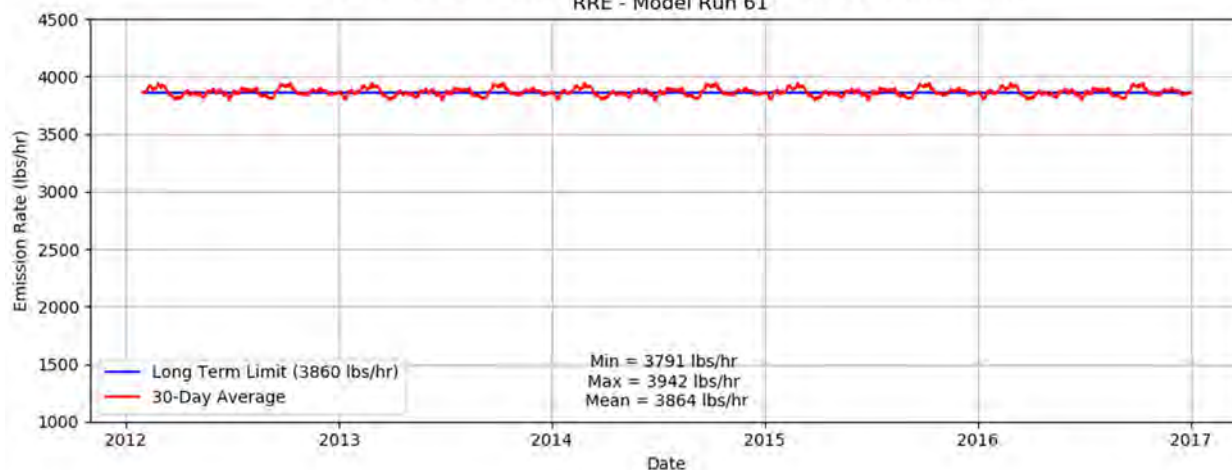
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 59



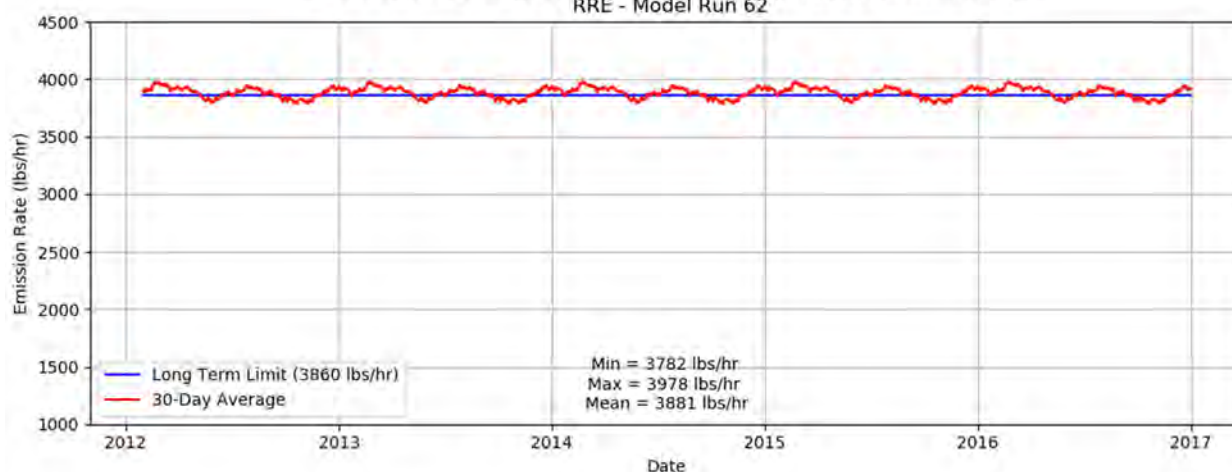
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 60



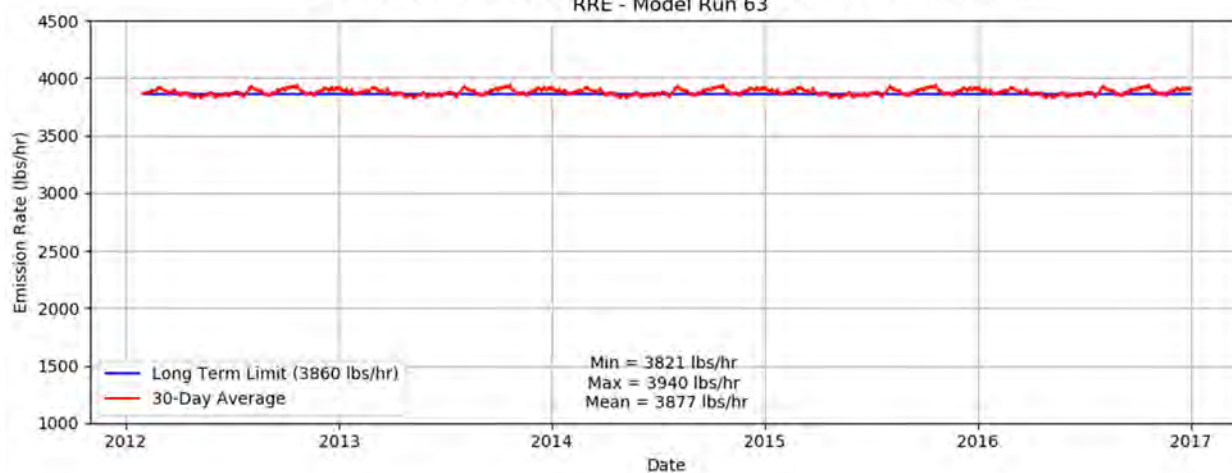
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 61



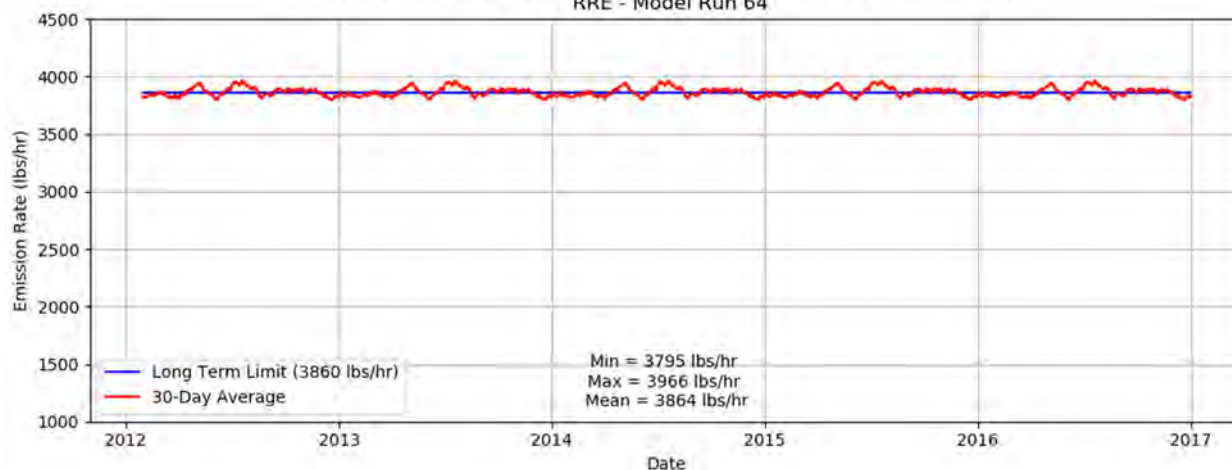
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 62



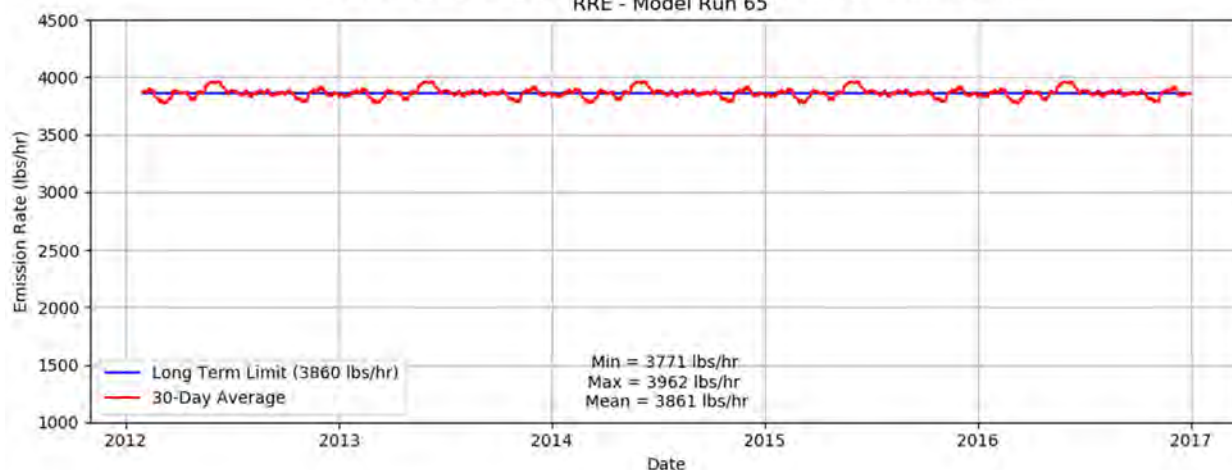
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 63



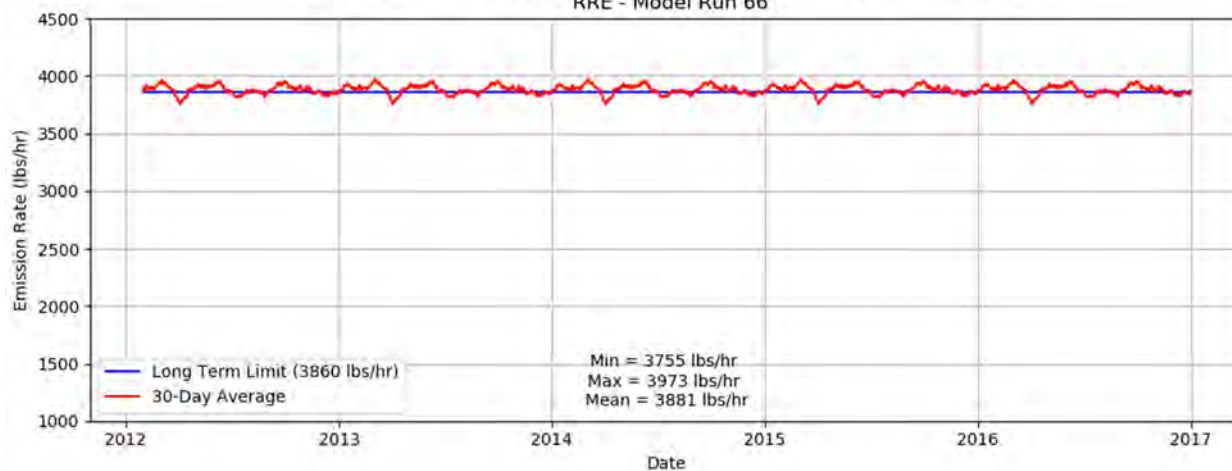
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 64



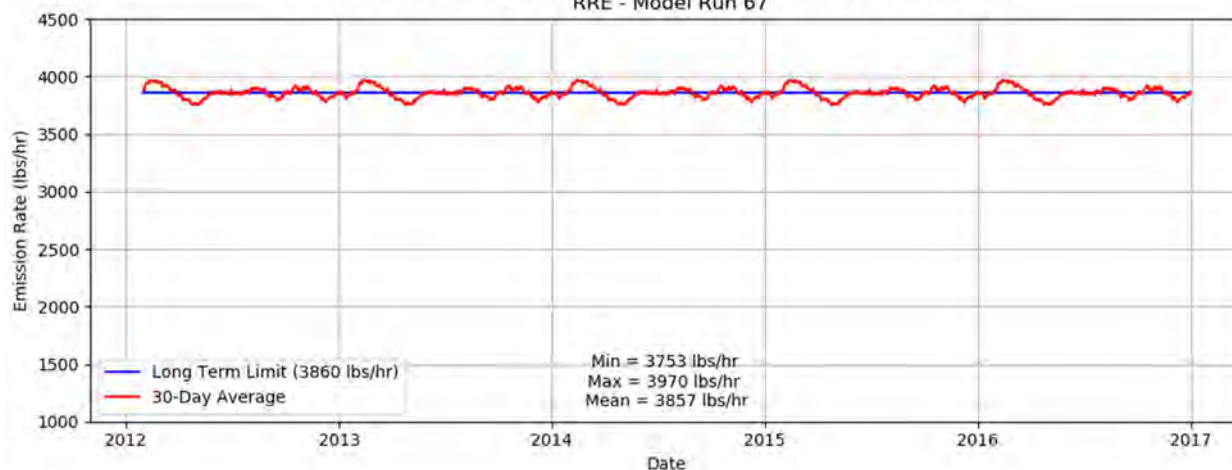
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 65



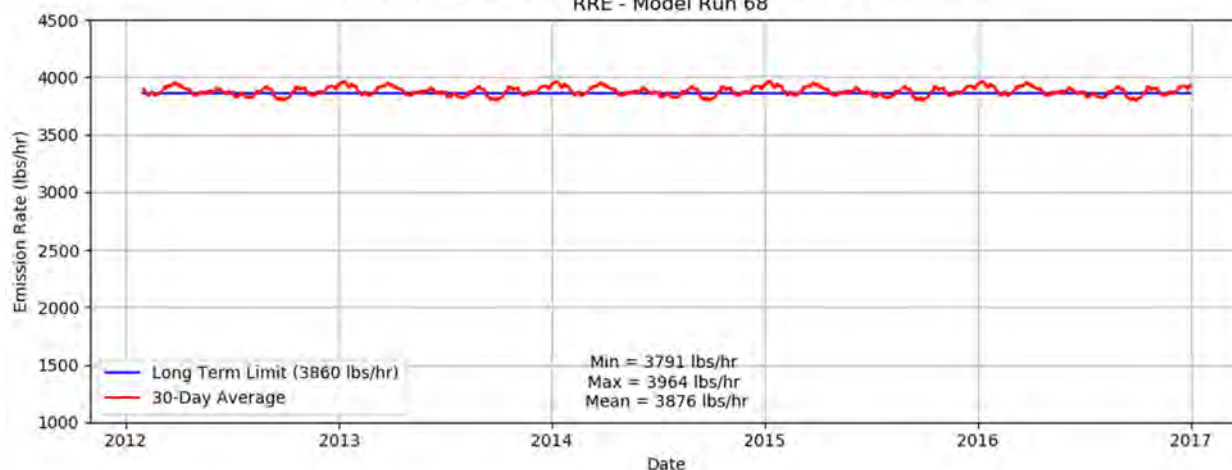
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 66



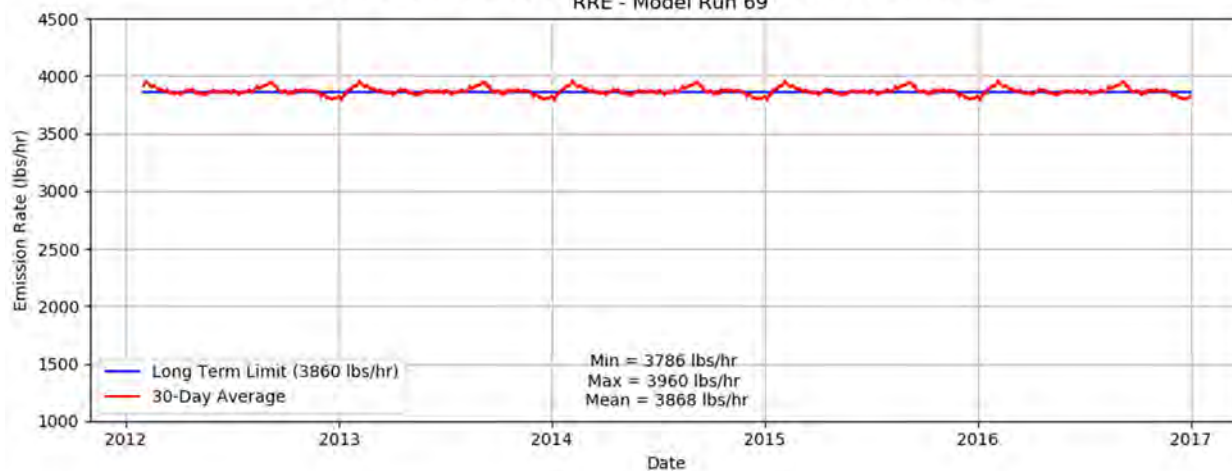
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 67



Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 68

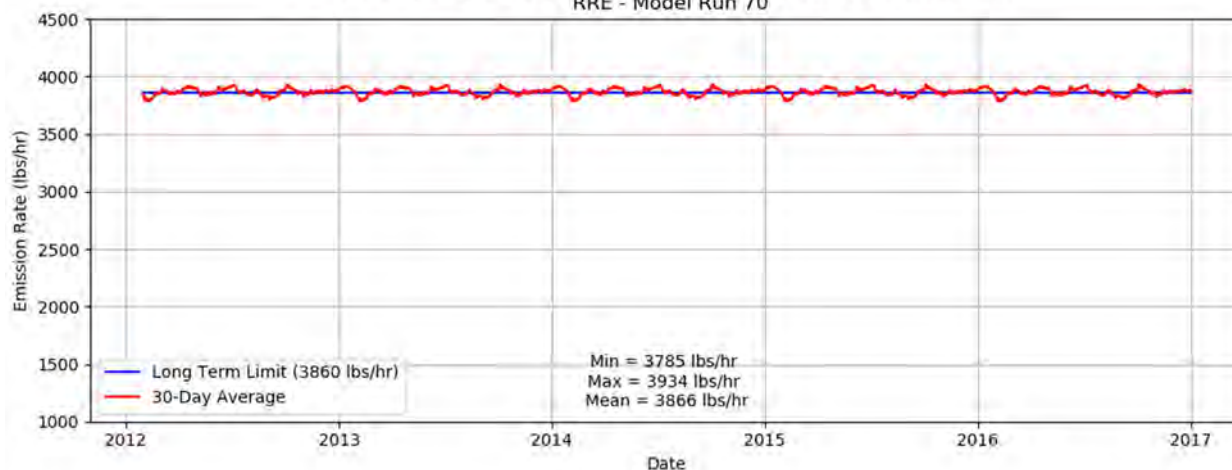


Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 69

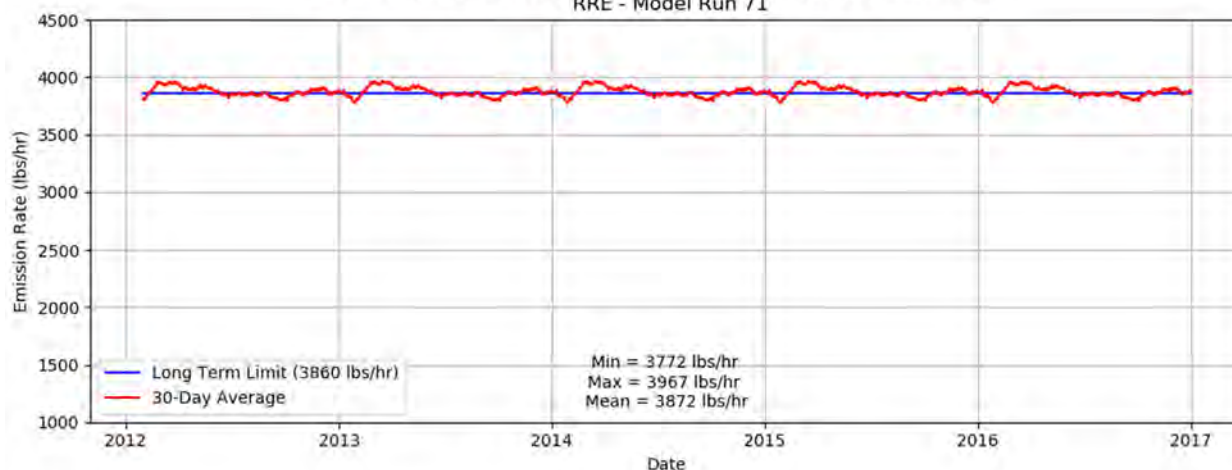




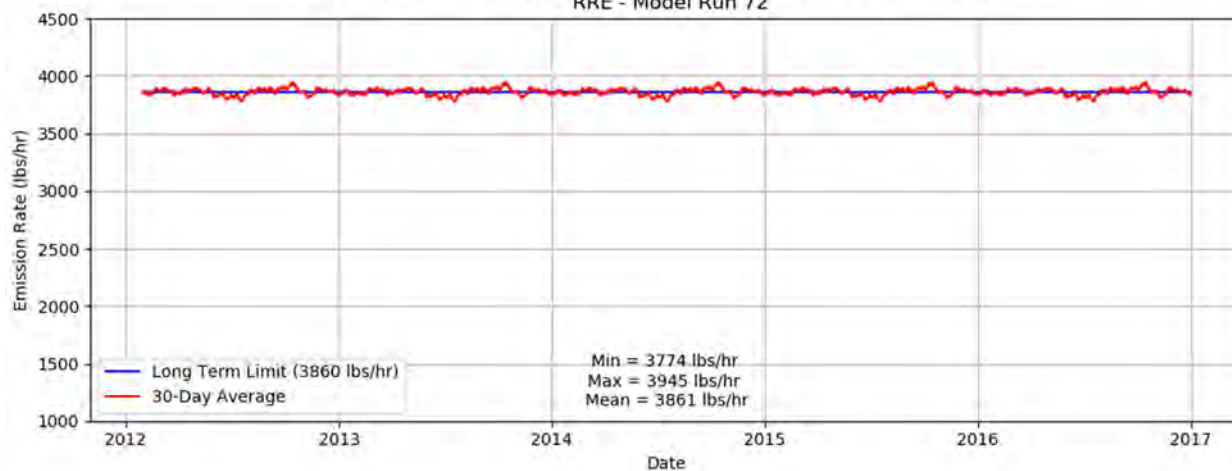
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 70



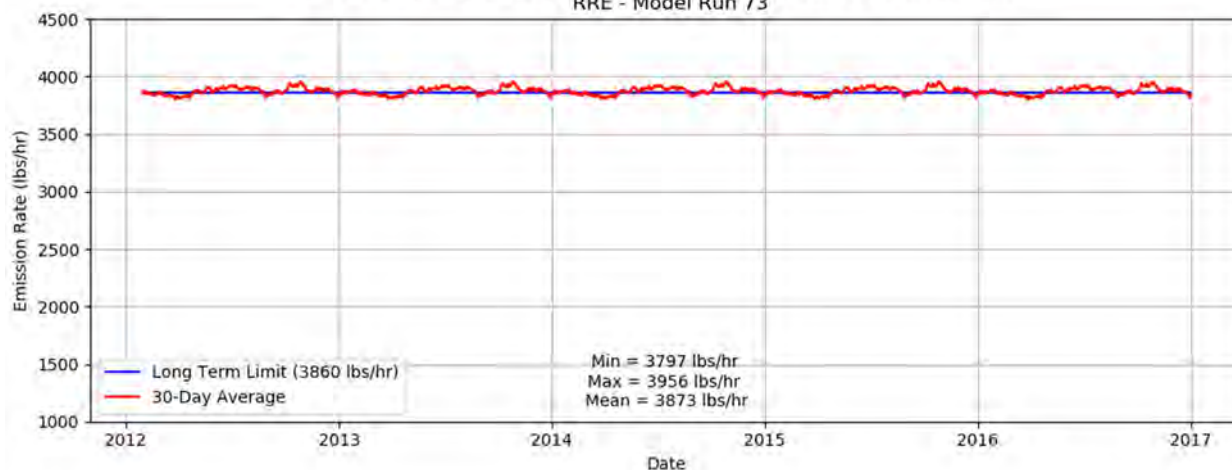
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 71



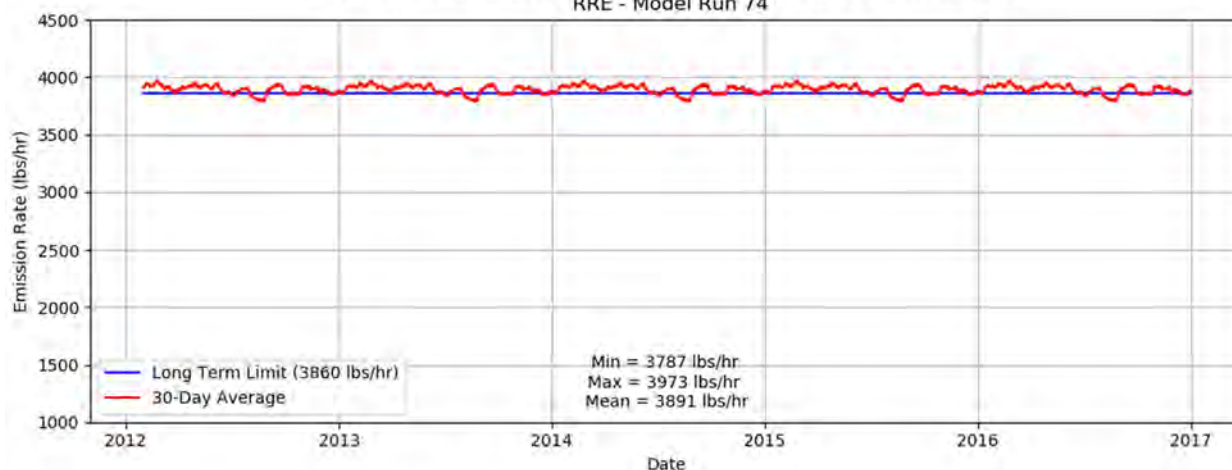
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 72



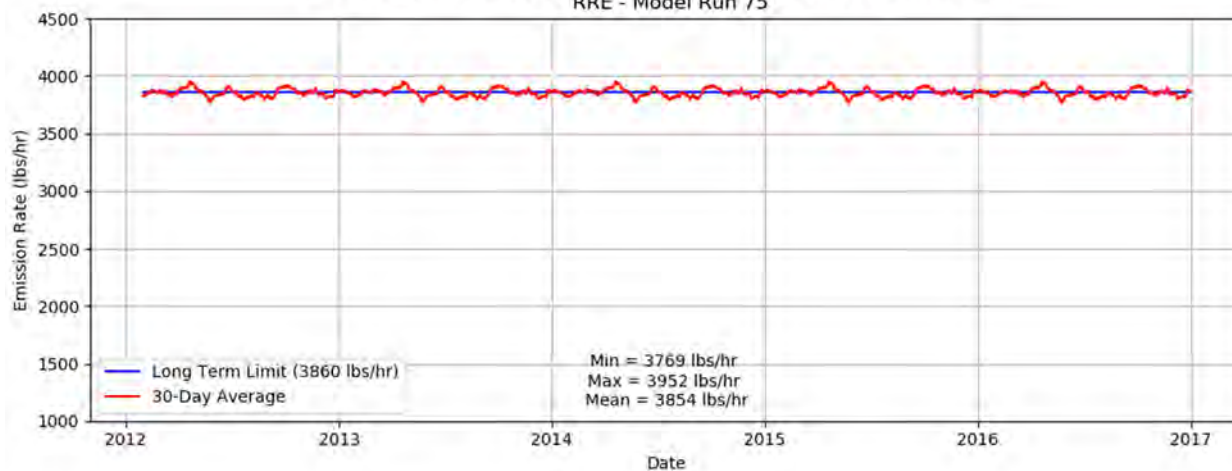
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 73



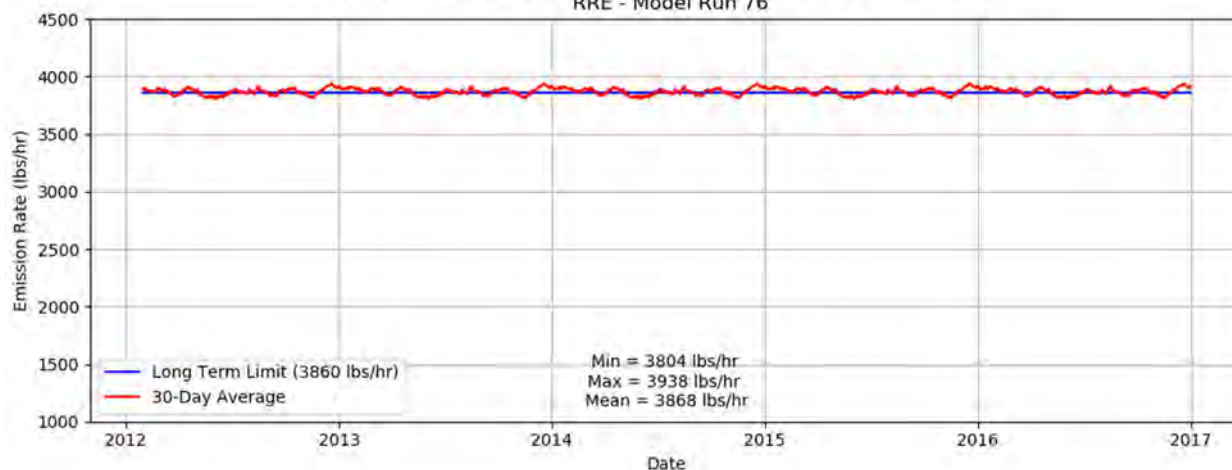
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 74



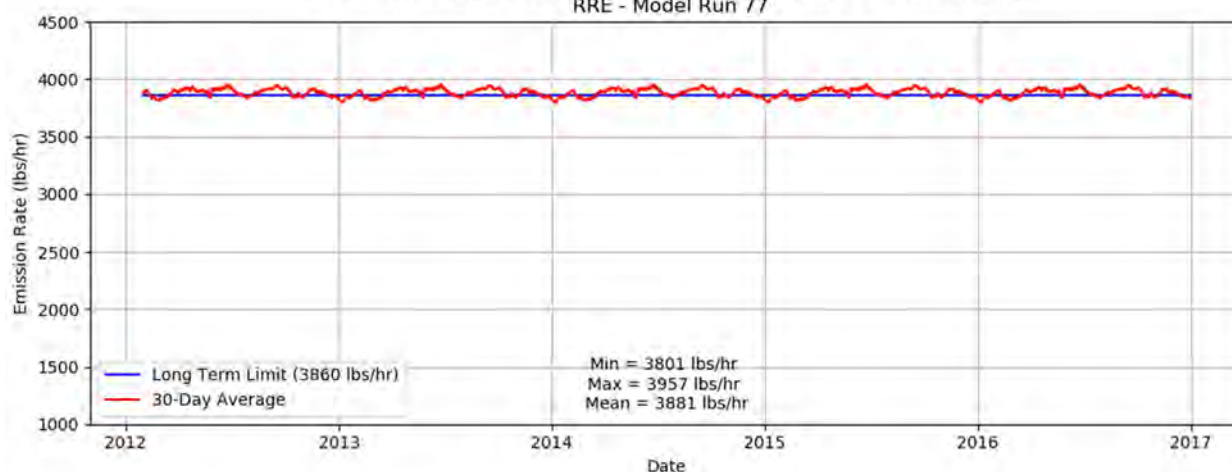
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 75



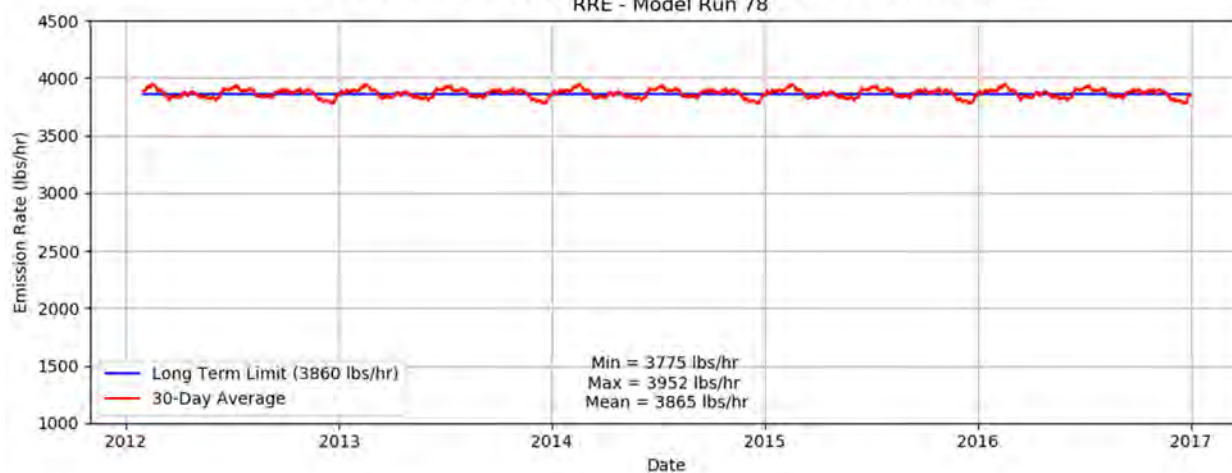
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 76



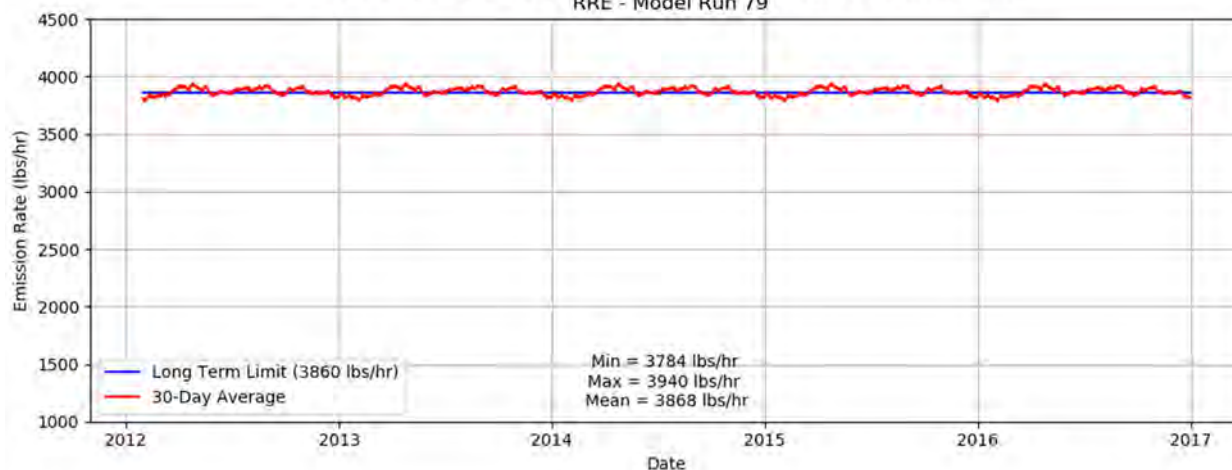
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 77



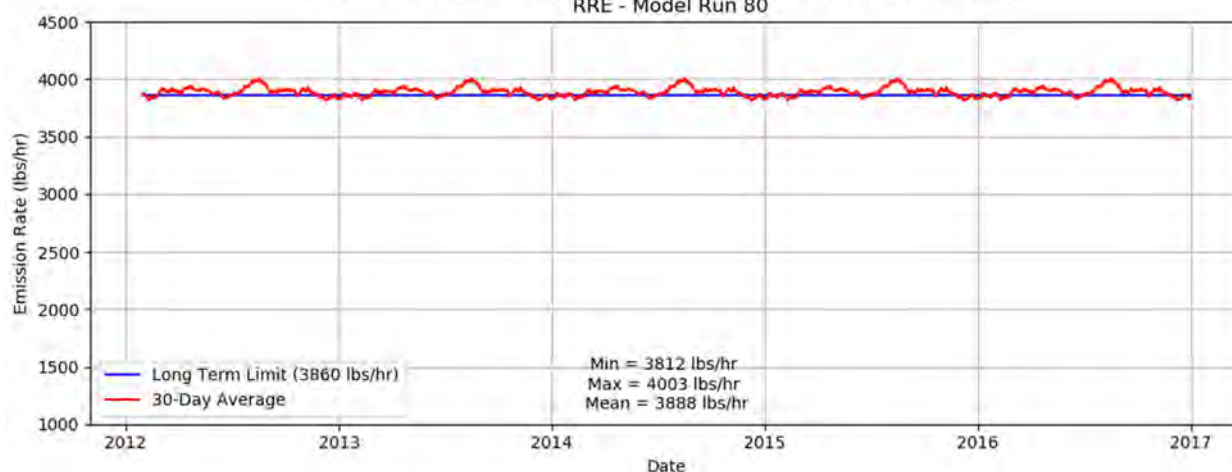
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 78



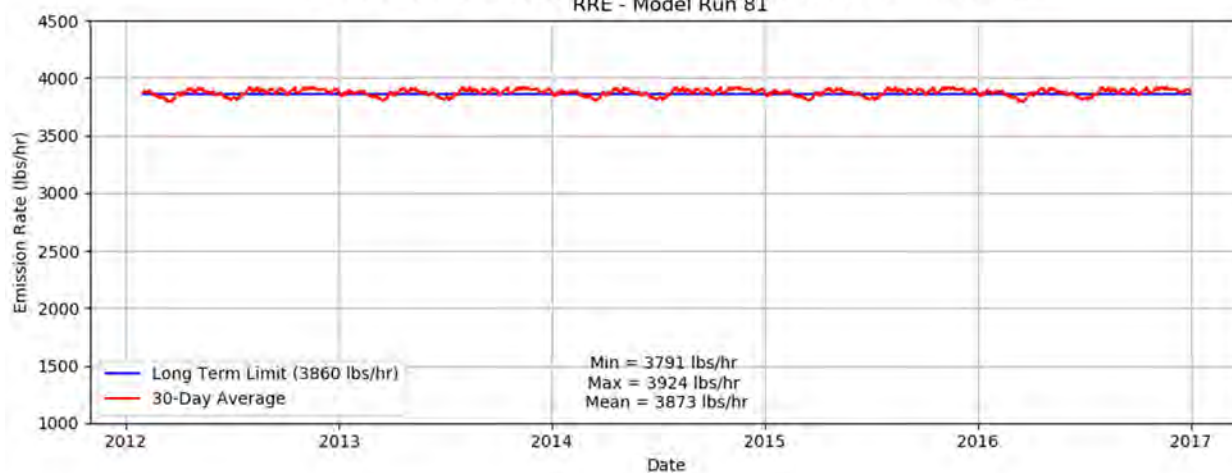
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 79



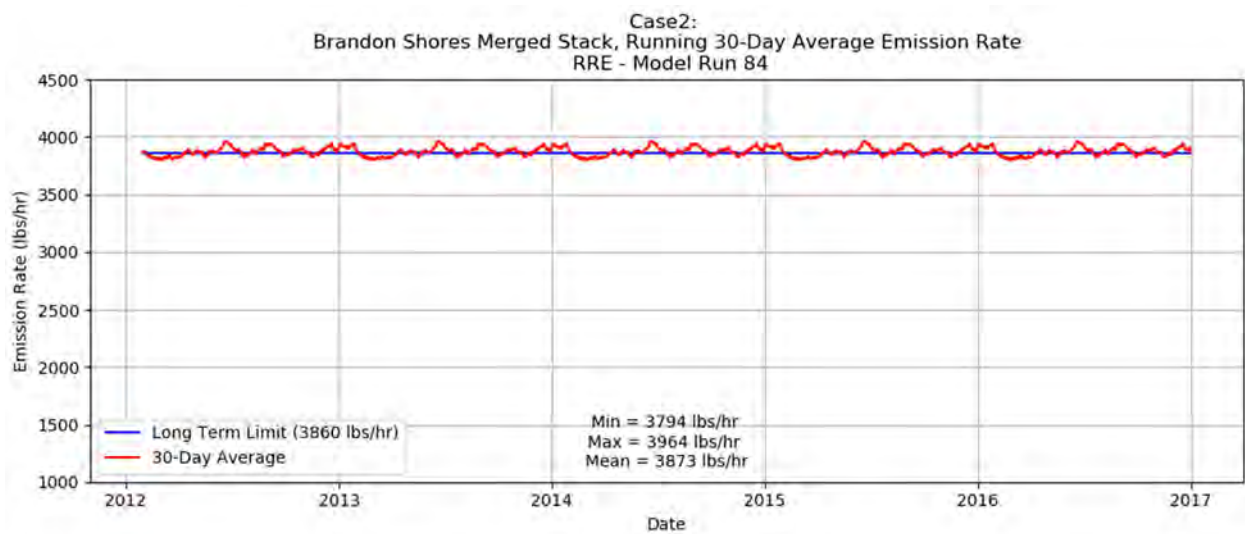
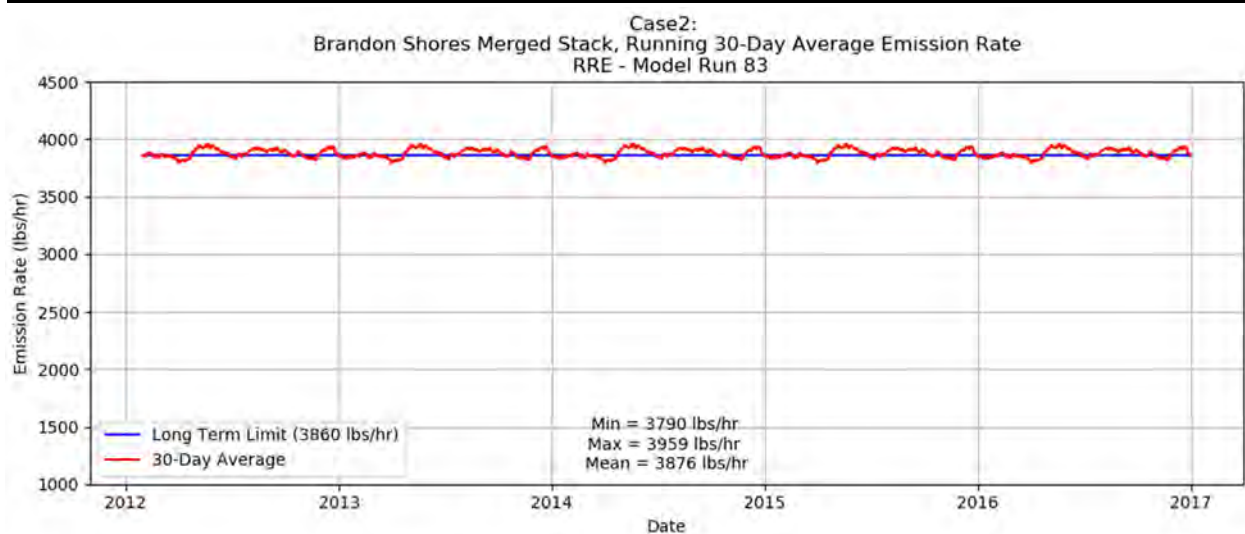
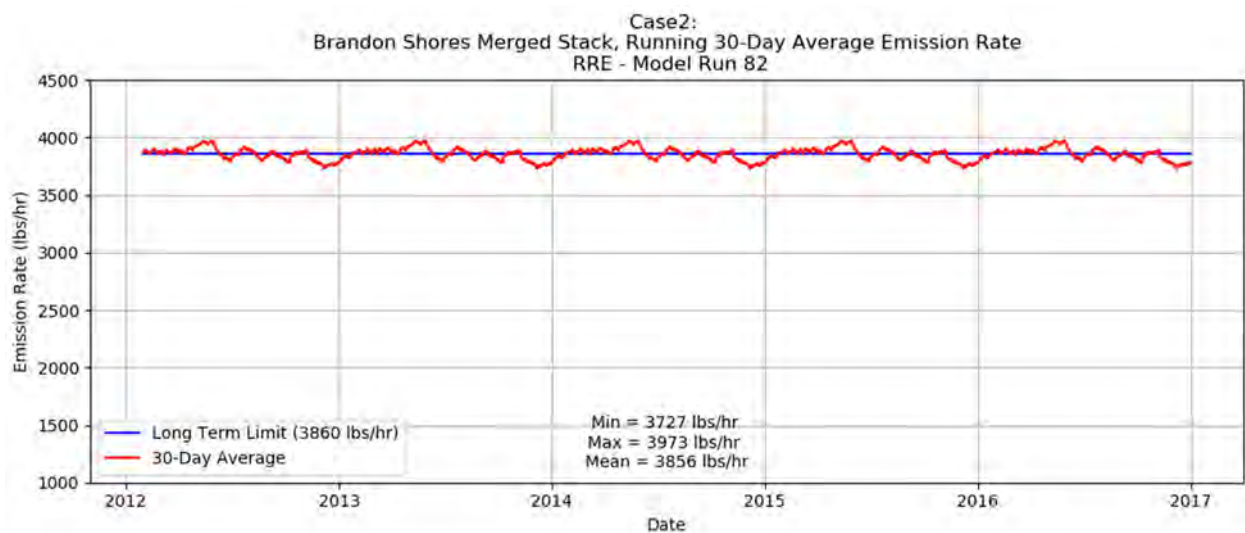
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 80



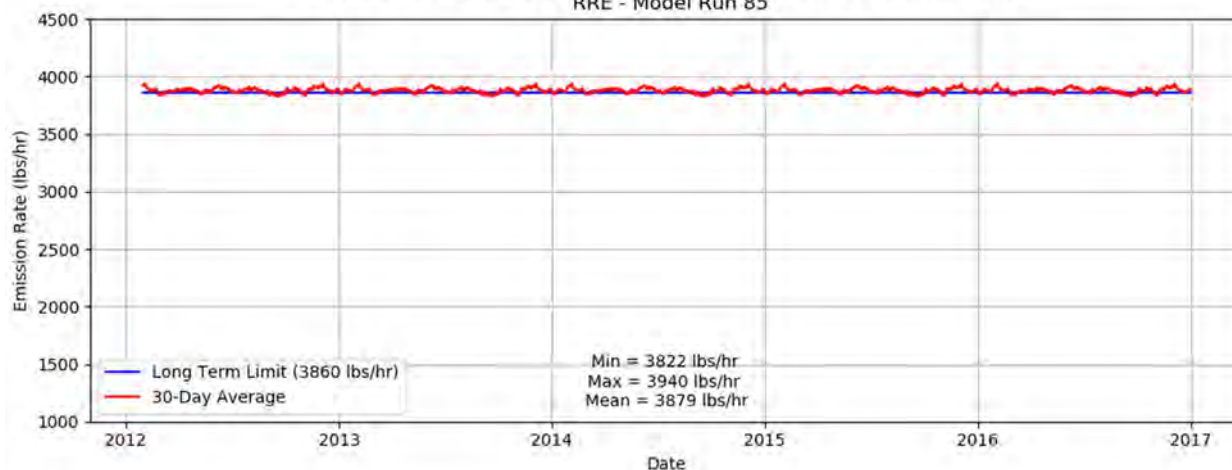
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 81



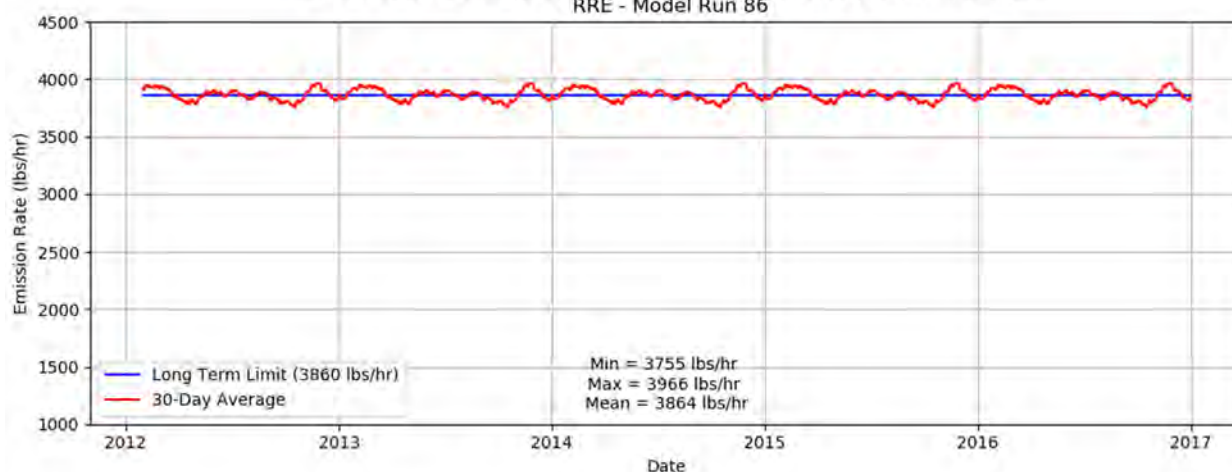




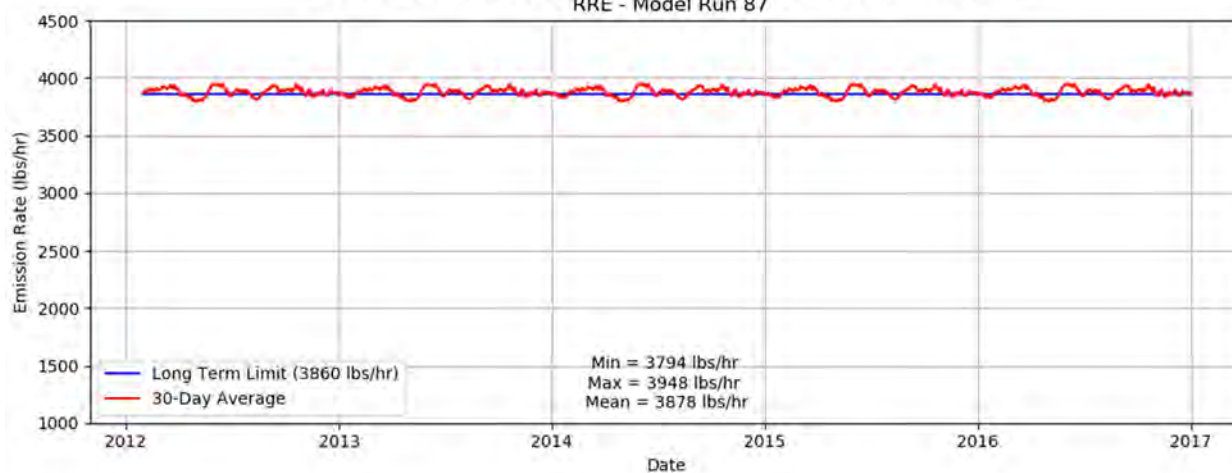
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 85



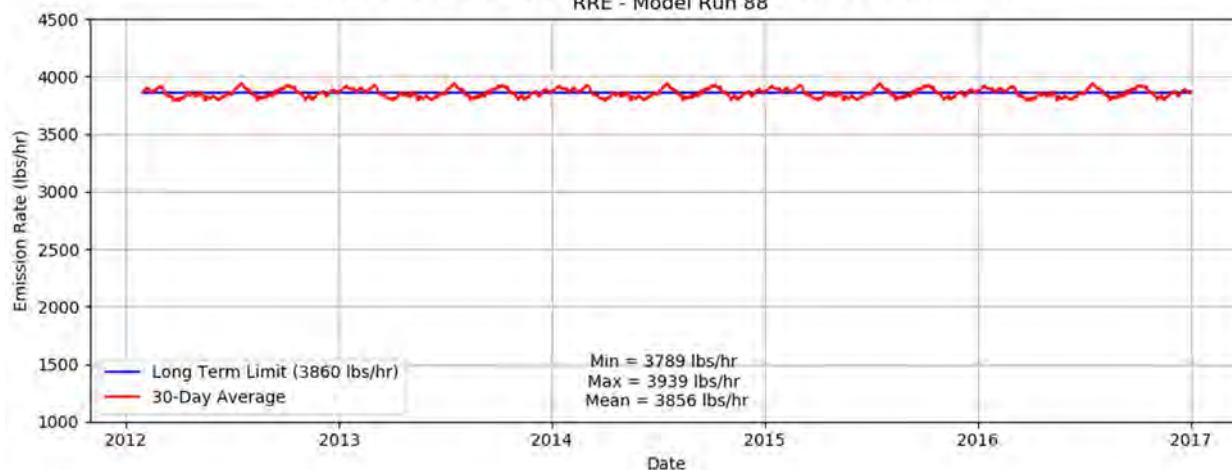
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 86



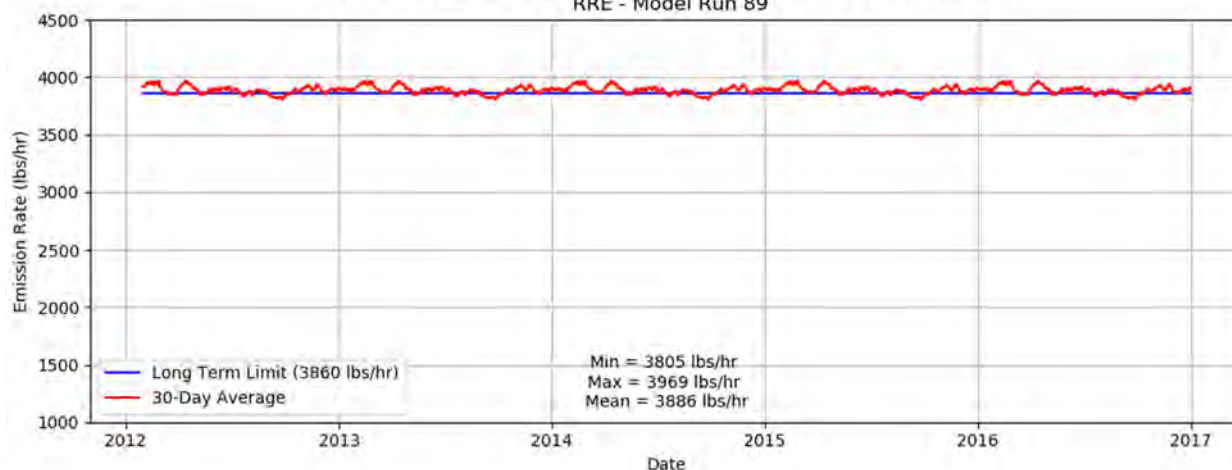
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 87



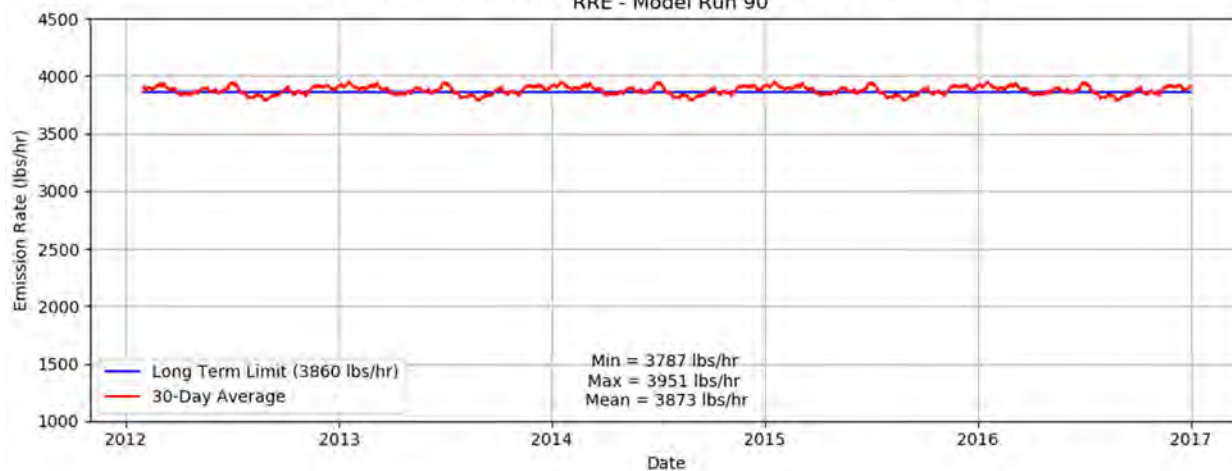
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 88



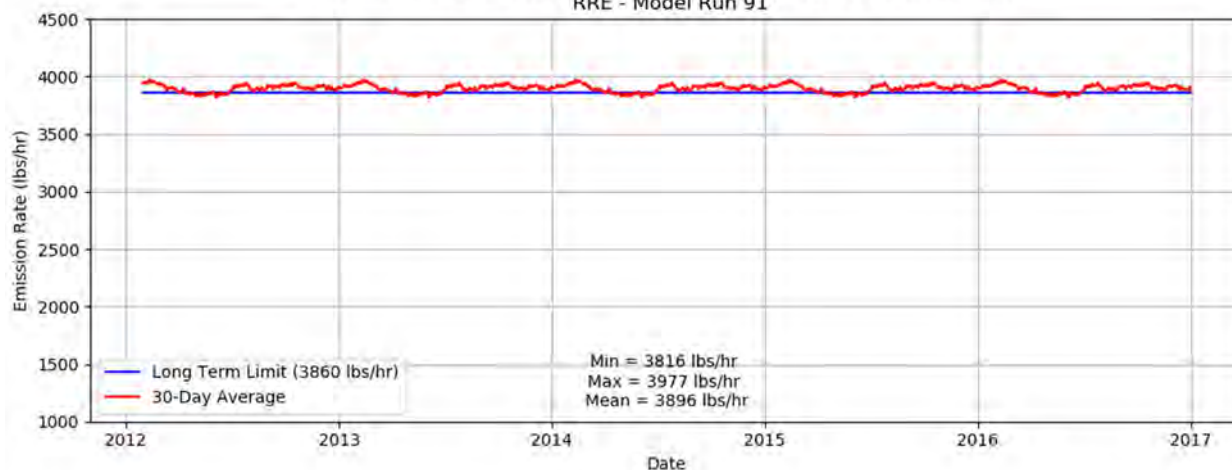
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 89



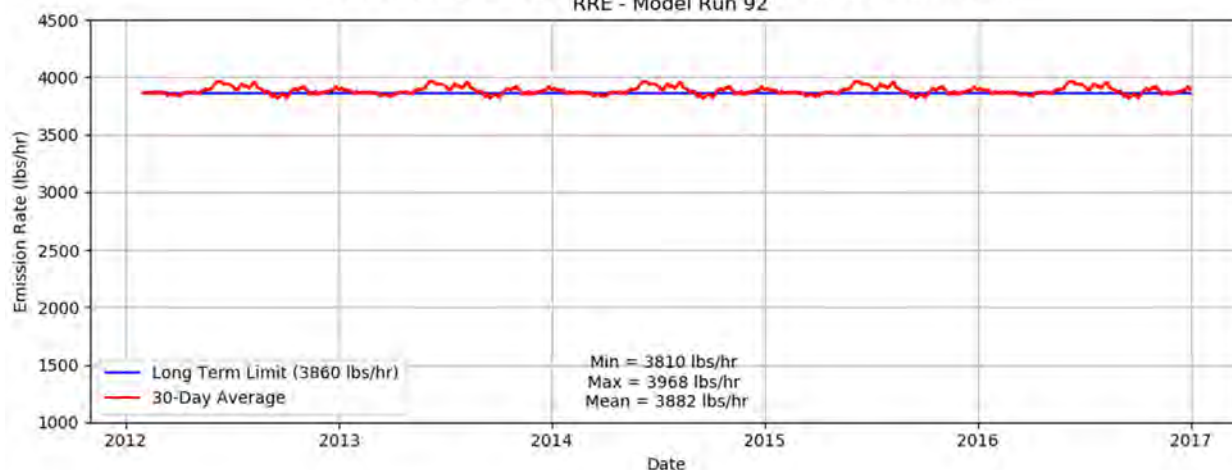
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 90



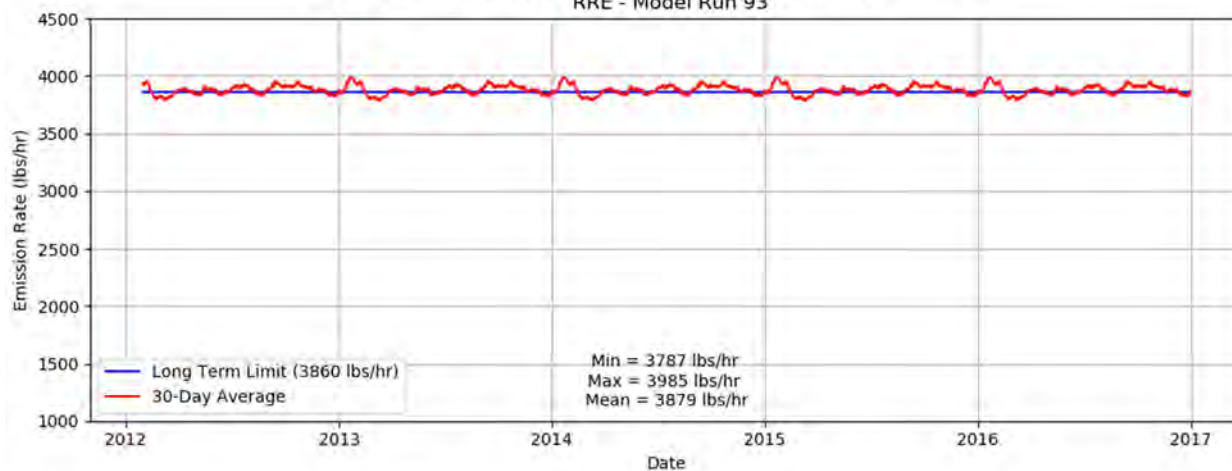
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 91



Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 92

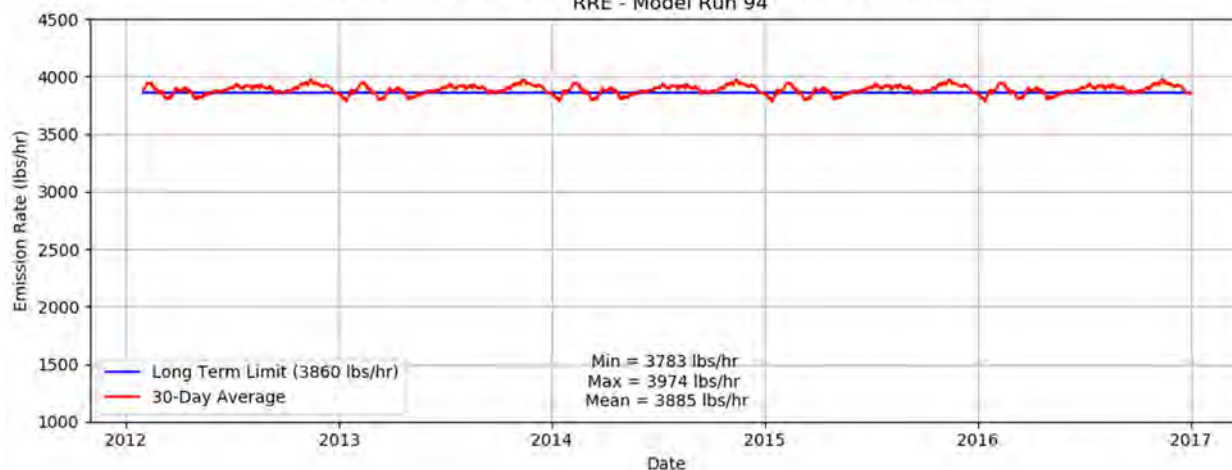


Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 93

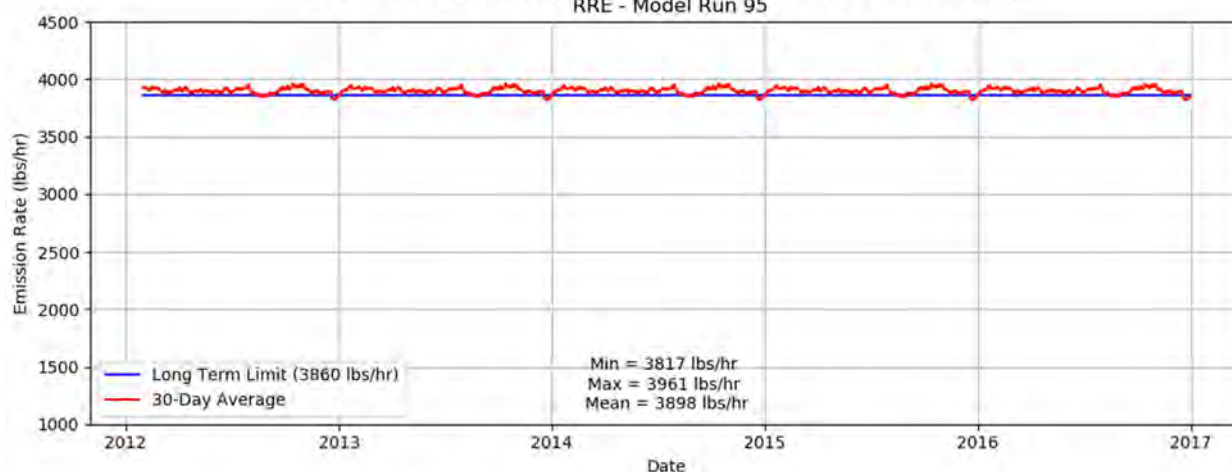




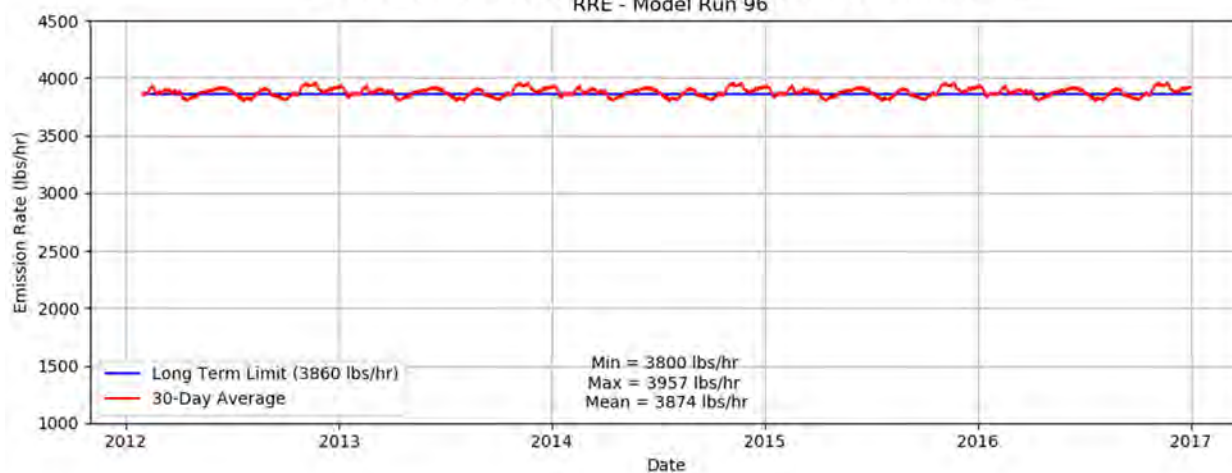
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 94



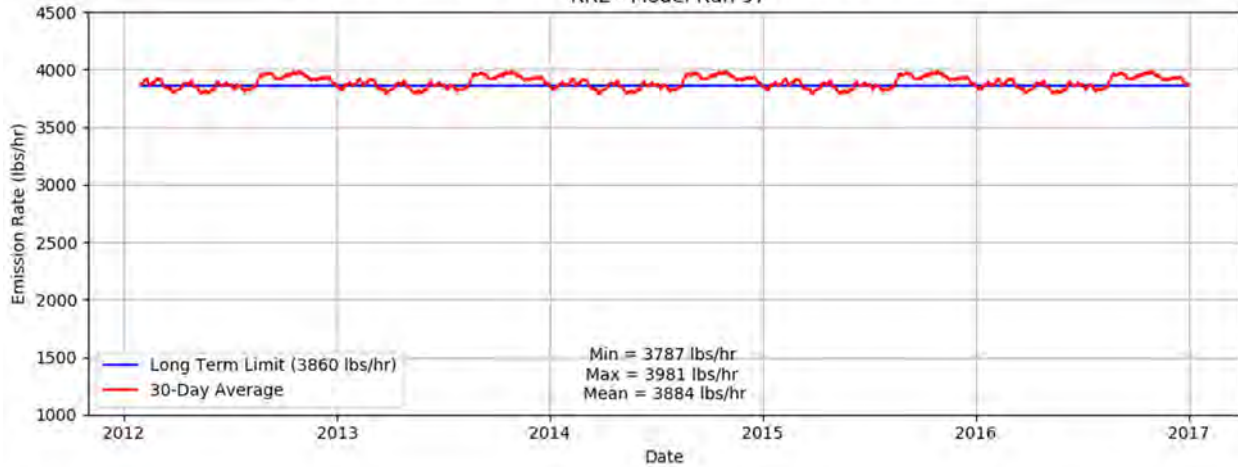
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 95



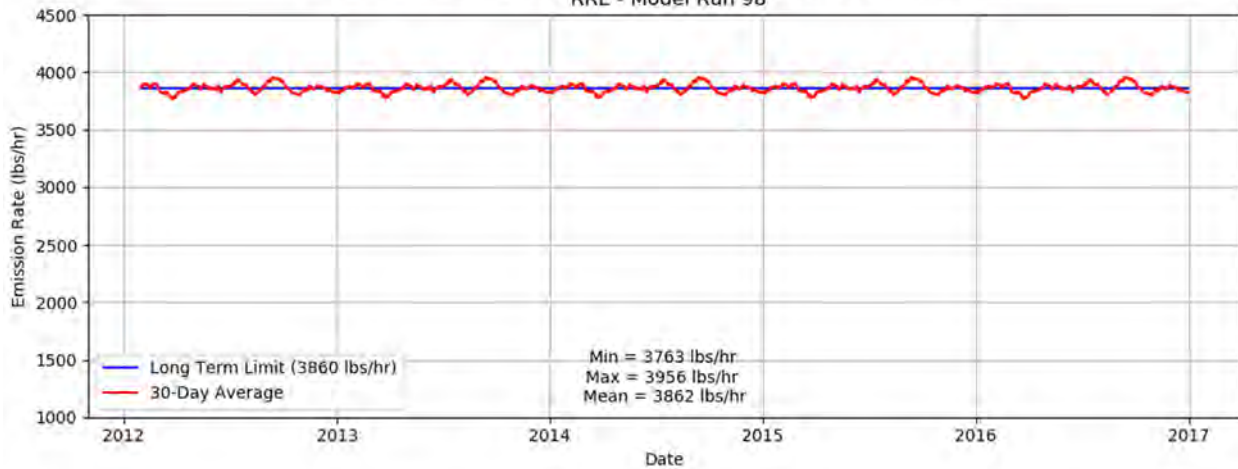
Case2:  
 Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
 RRE - Model Run 96



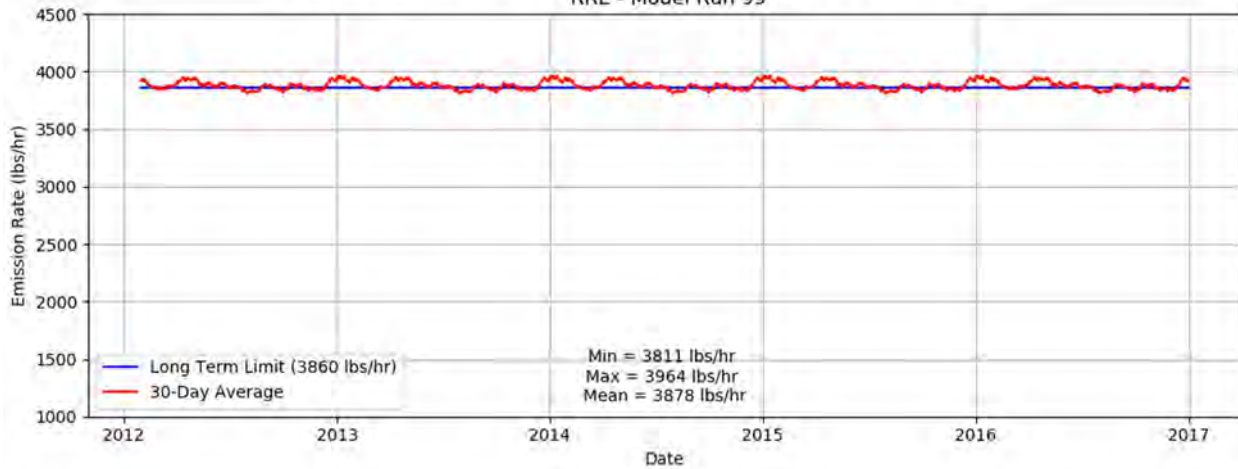
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 97



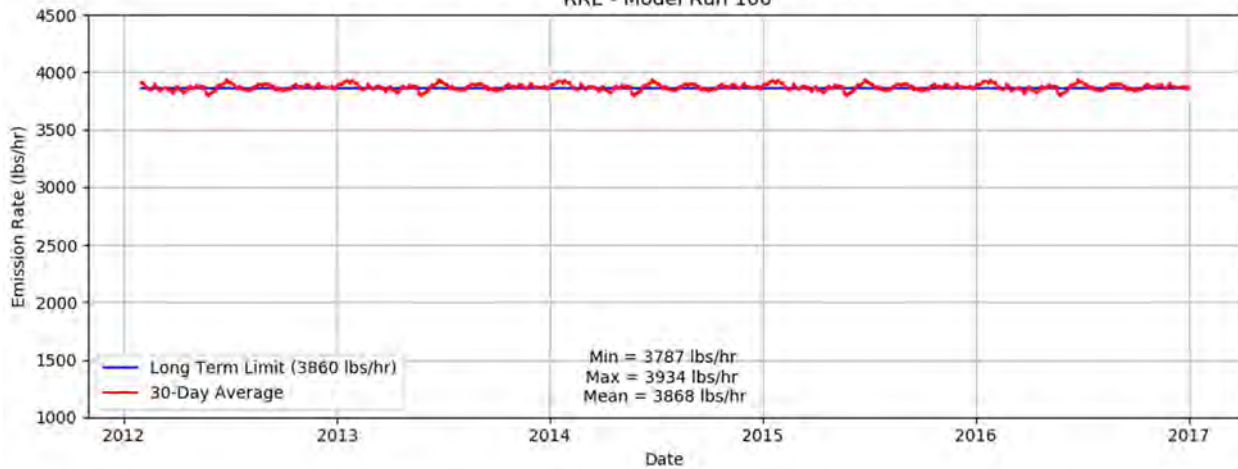
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 98



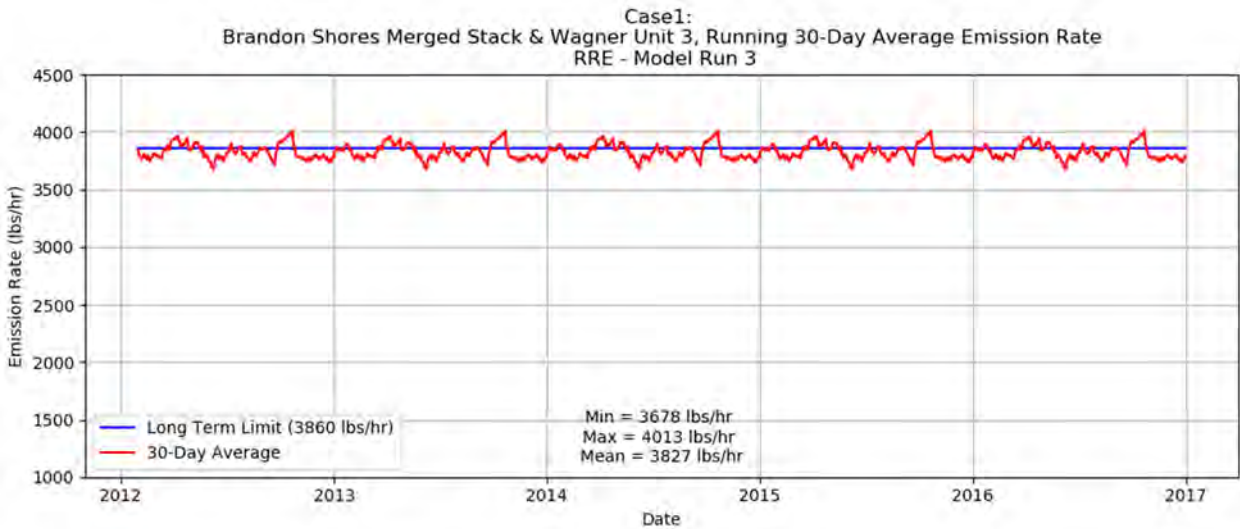
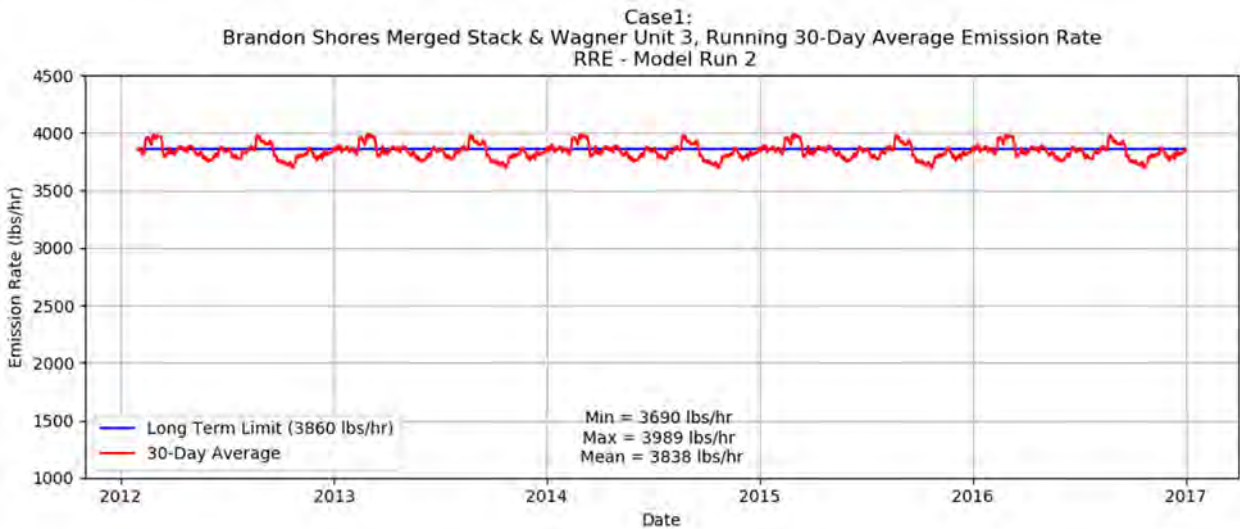
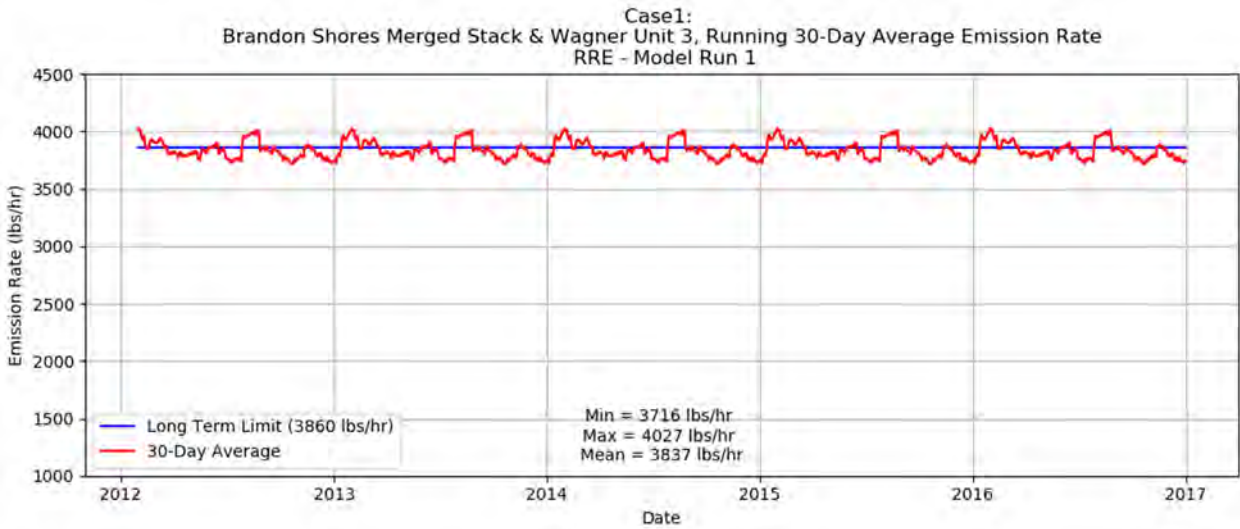
Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 99



Case2:  
Brandon Shores Merged Stack, Running 30-Day Average Emission Rate  
RRE - Model Run 100

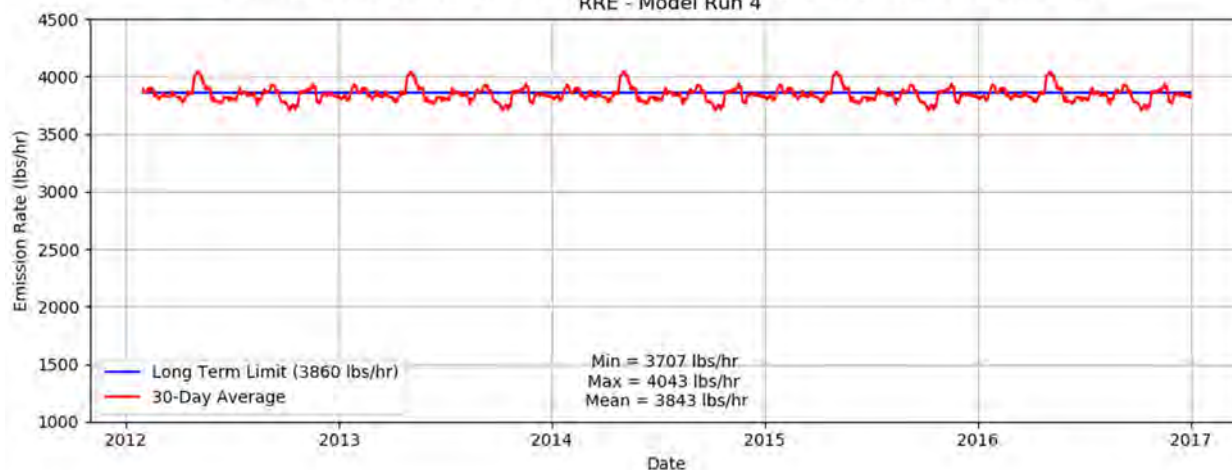


**Brandon Shores Generating Station, & Wagner Generating Station Unit 3 – Case 1**

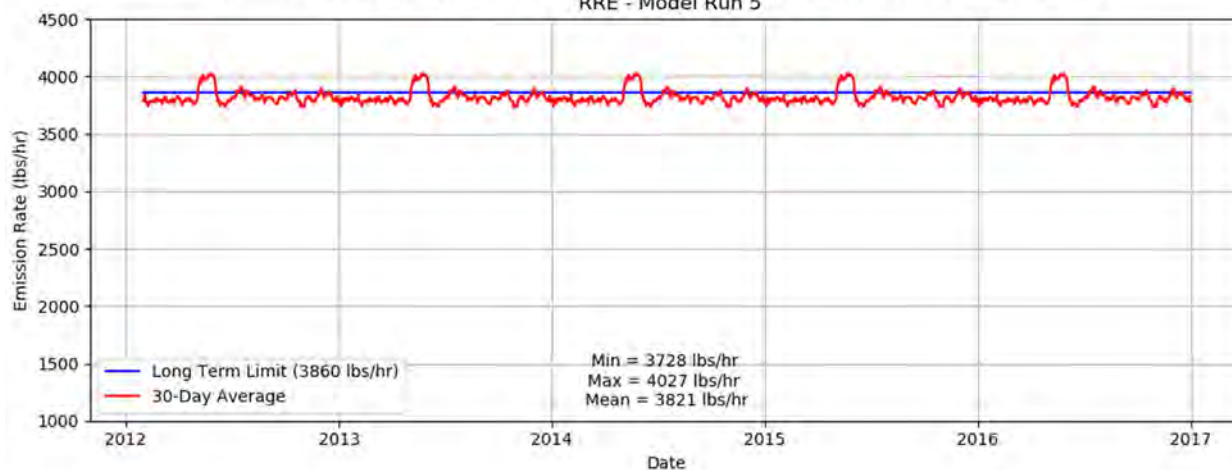




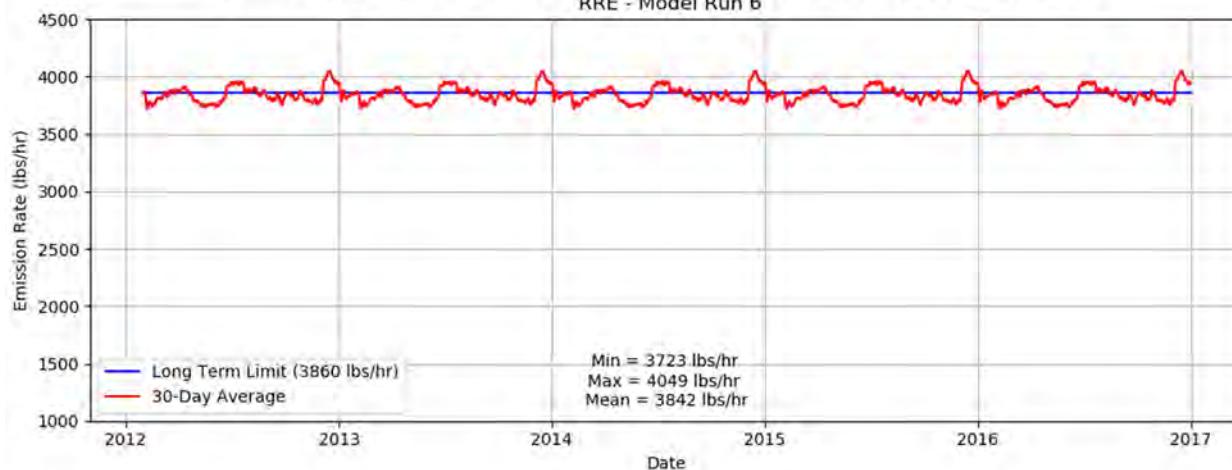
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 4



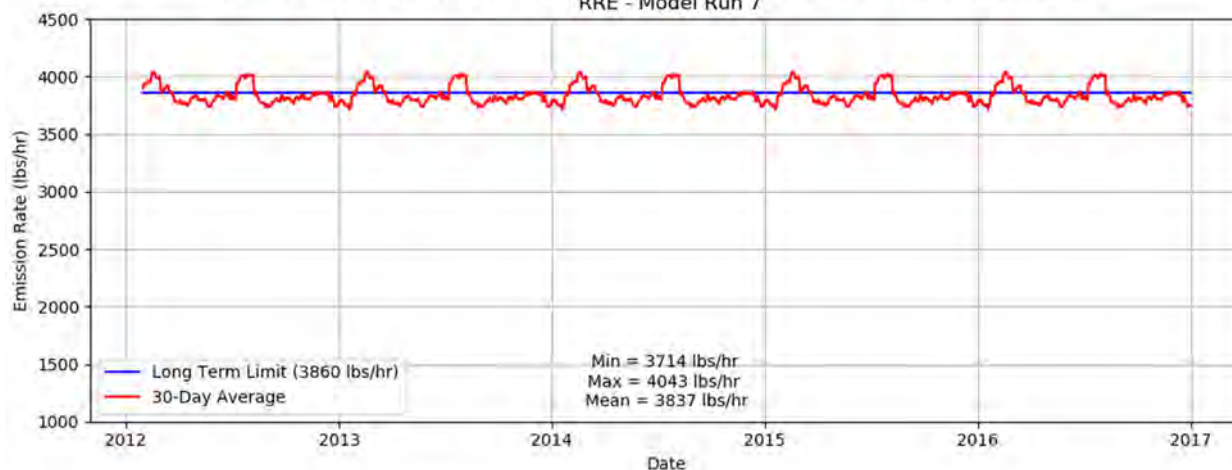
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 5



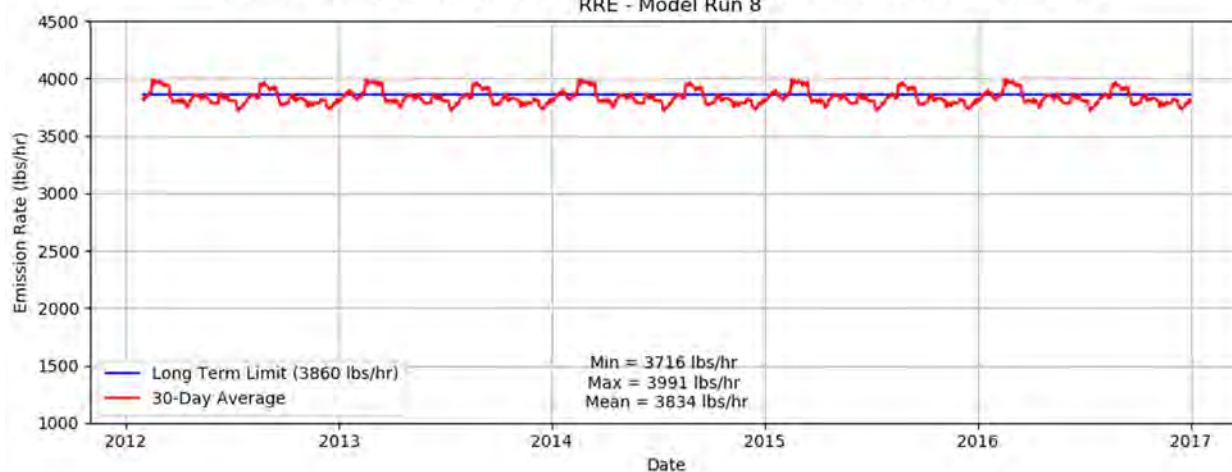
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 6



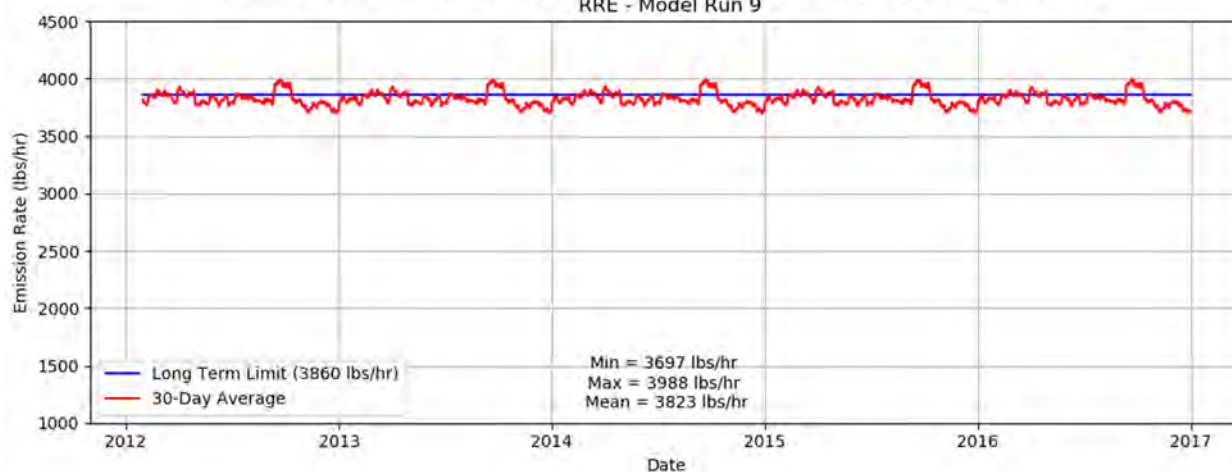
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 7



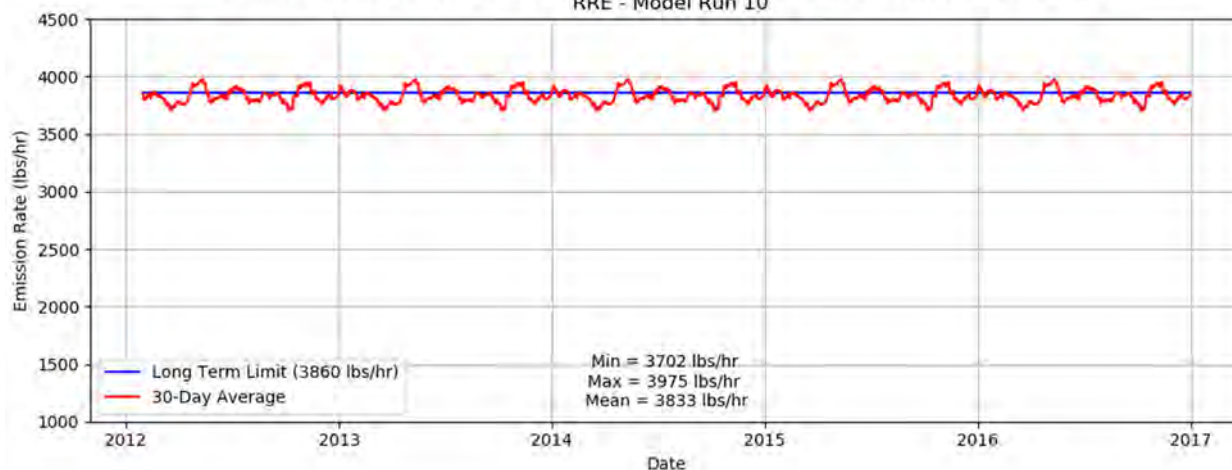
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 8



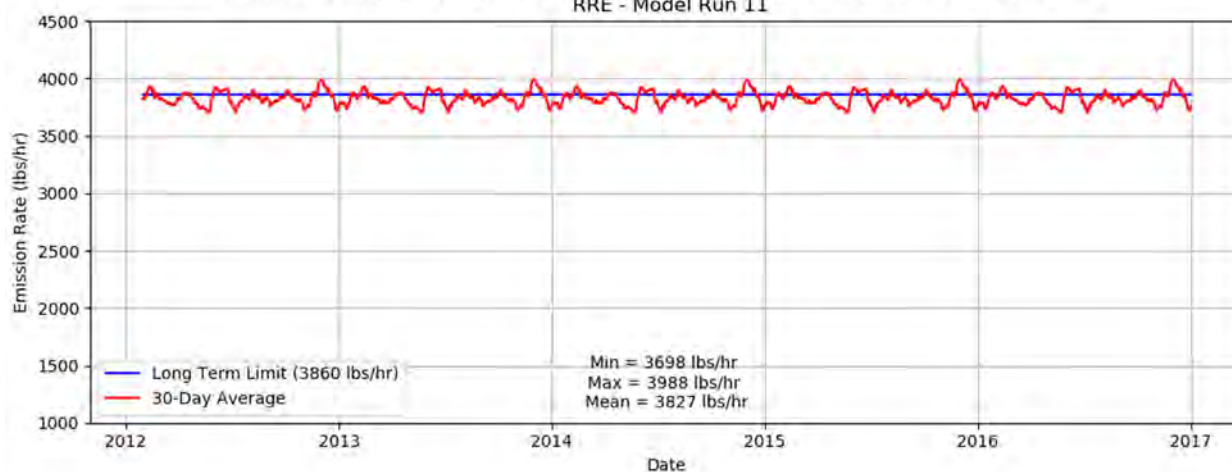
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 9



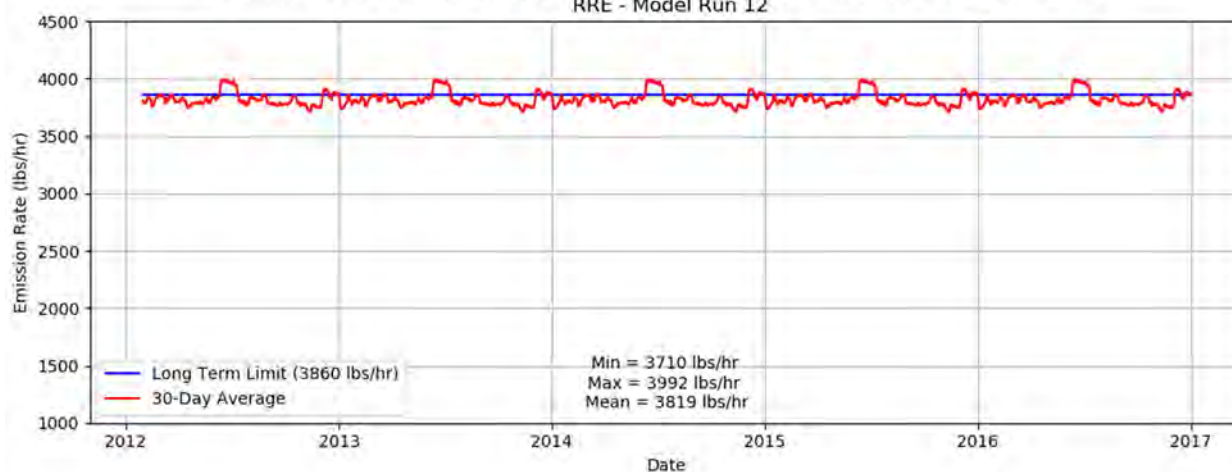
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 10



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 11

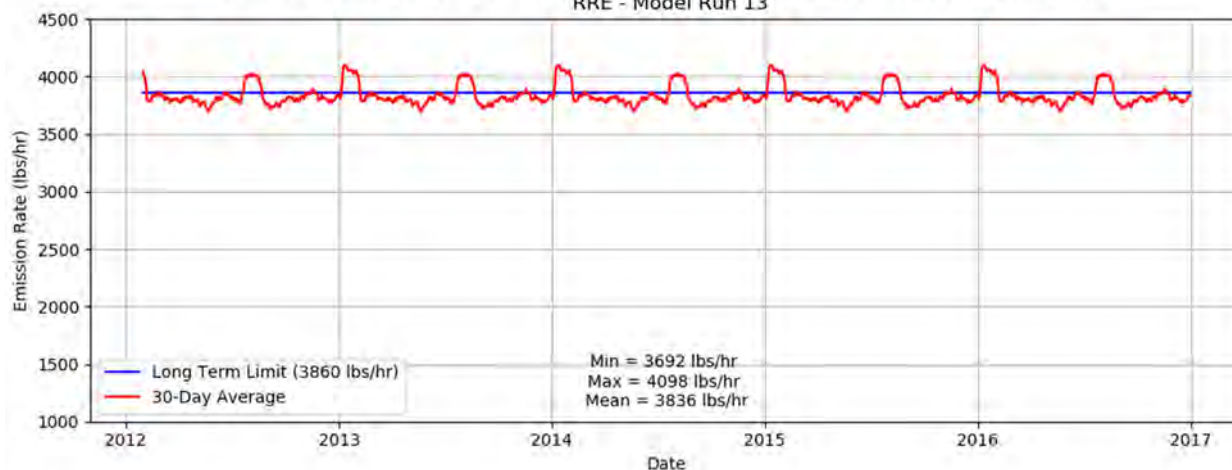


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 12

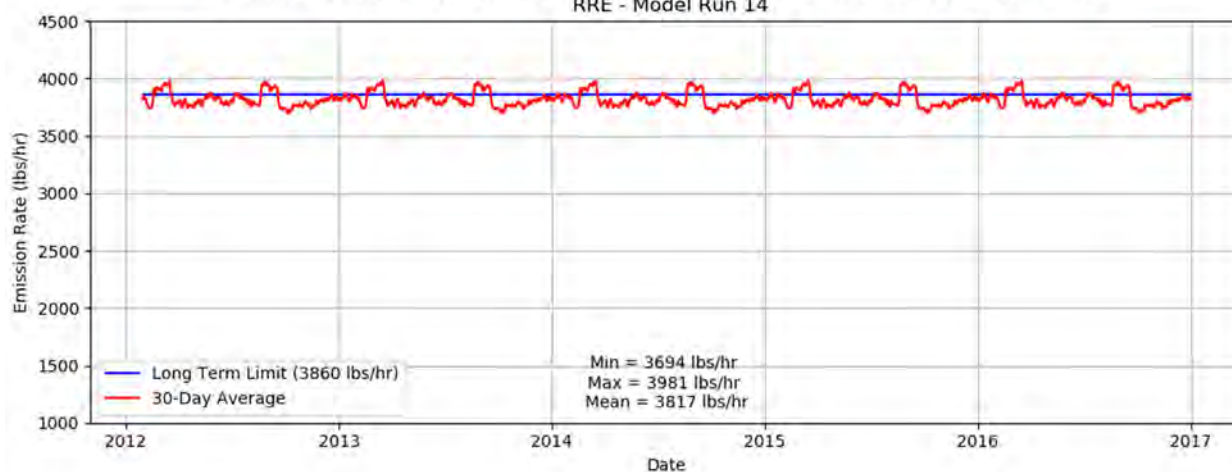




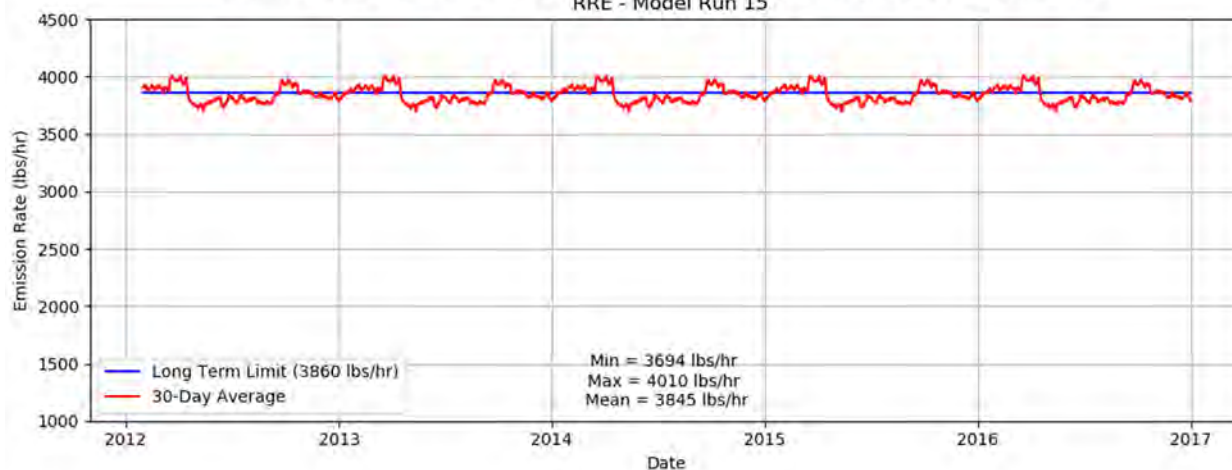
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 13



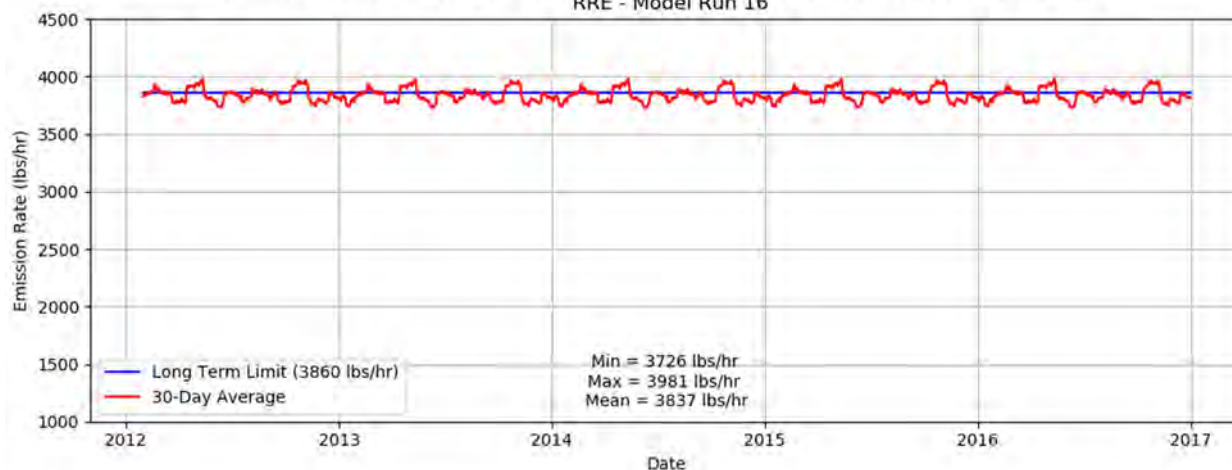
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 14



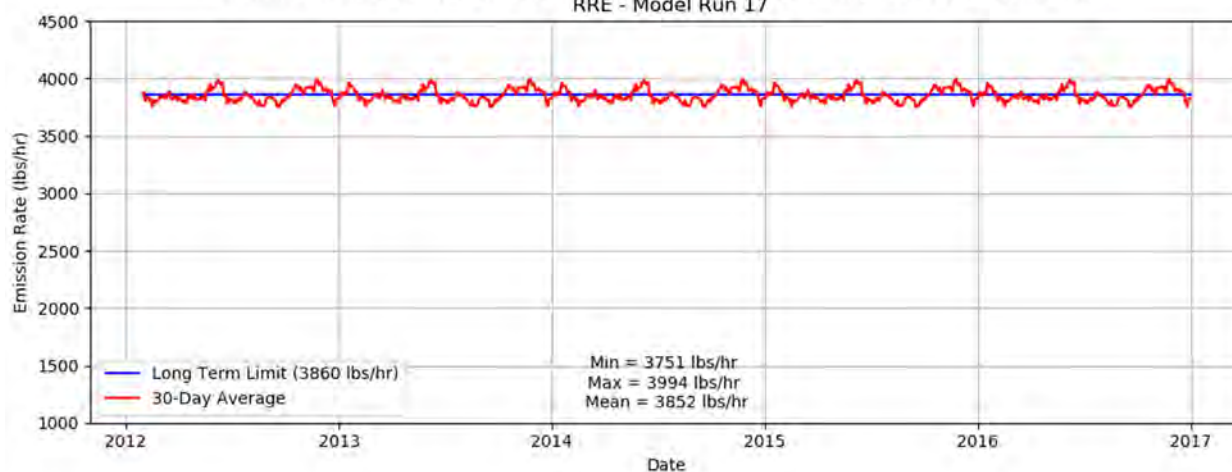
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 15



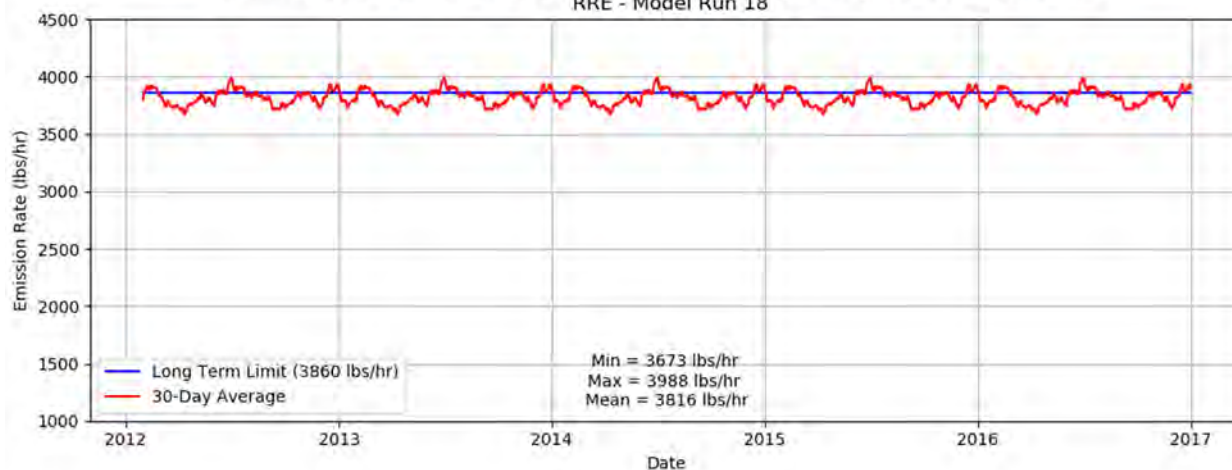
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 16



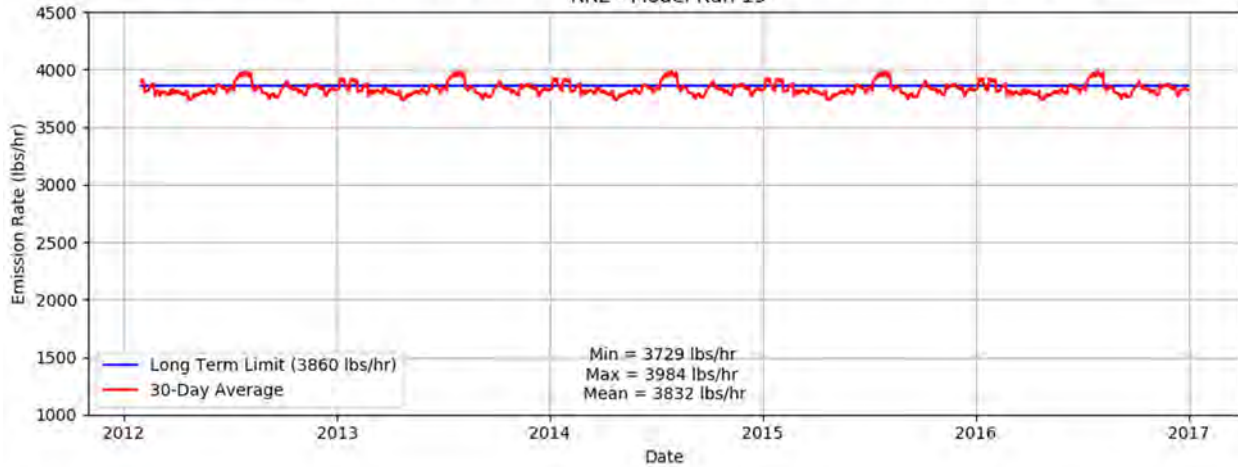
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 17



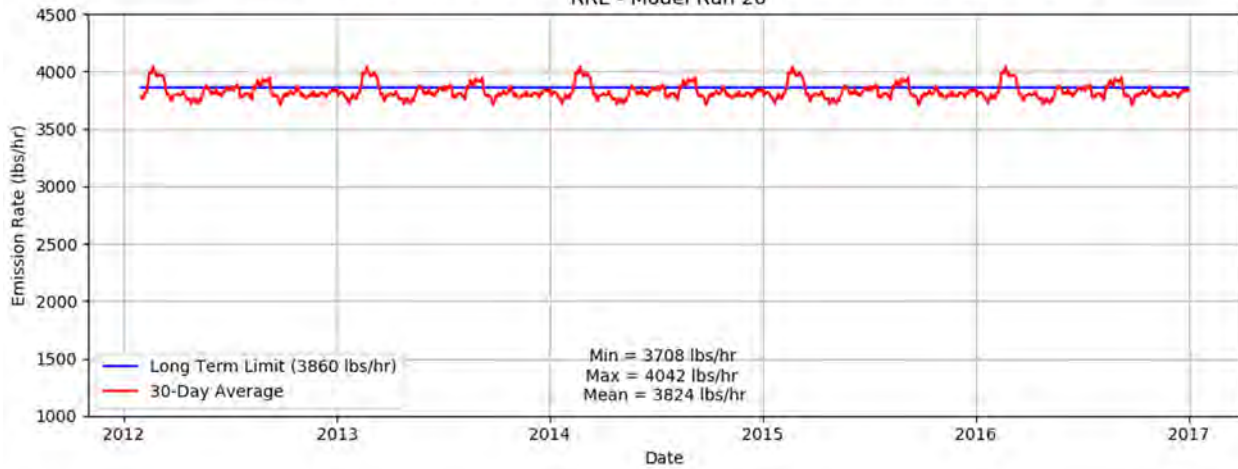
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 18



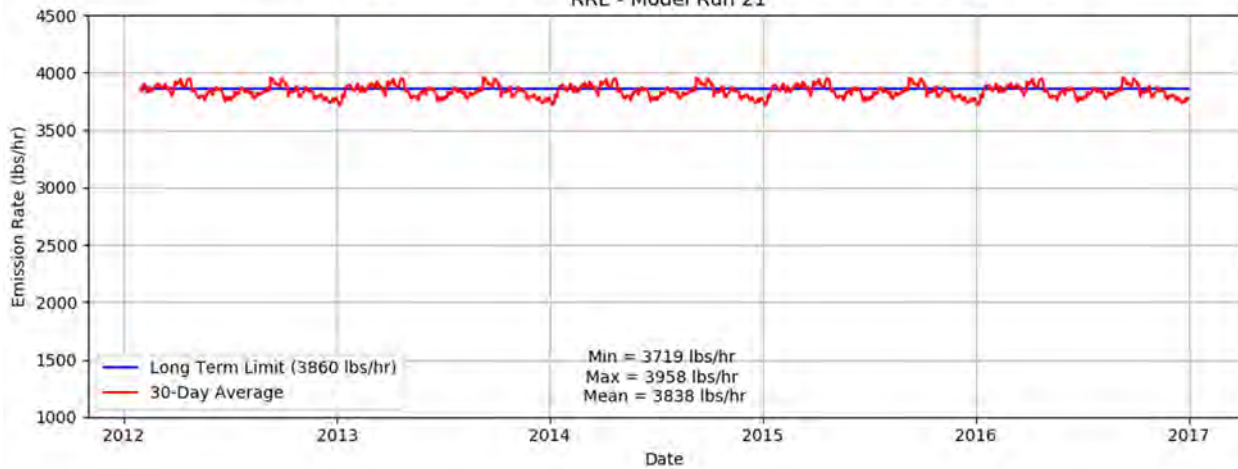
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 19



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 20

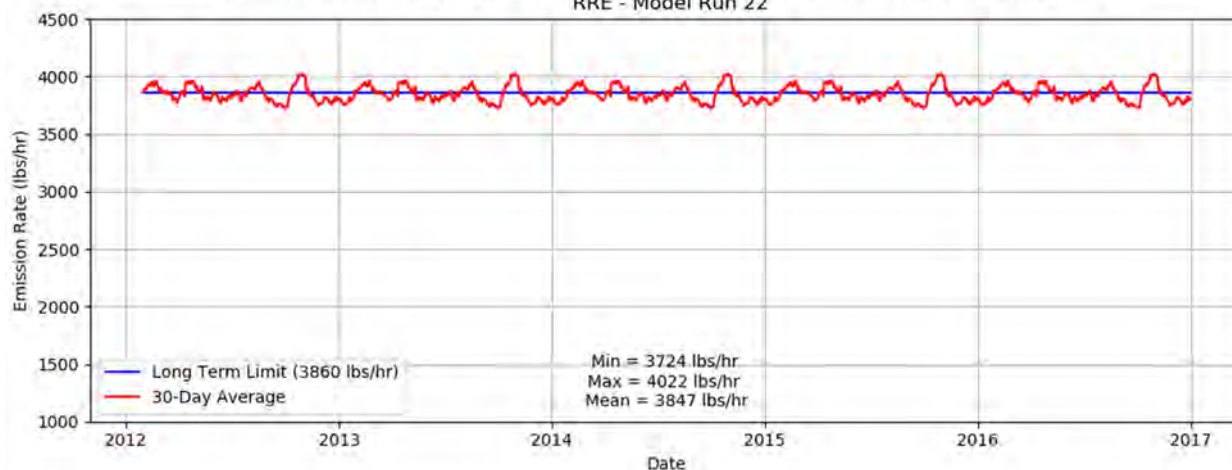


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 21

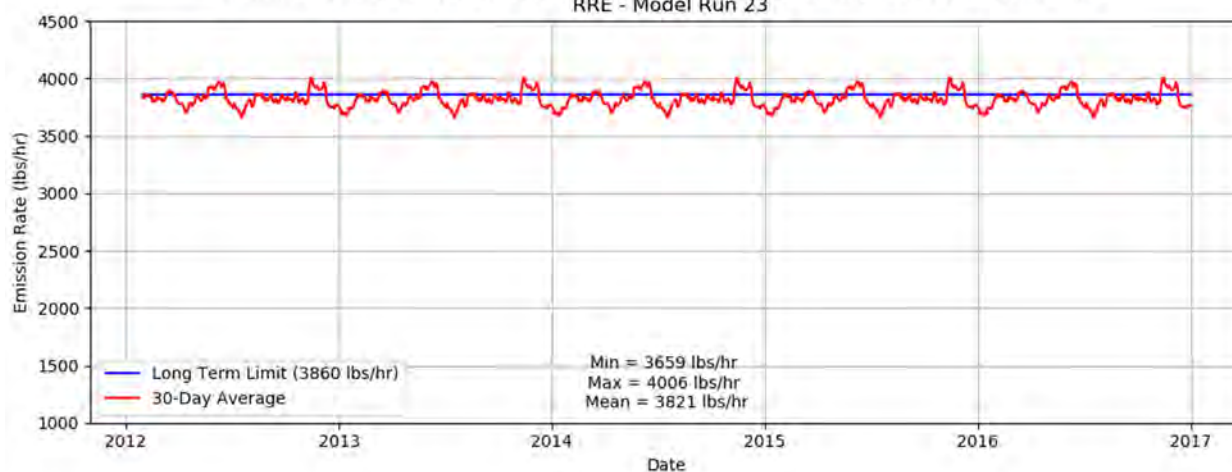




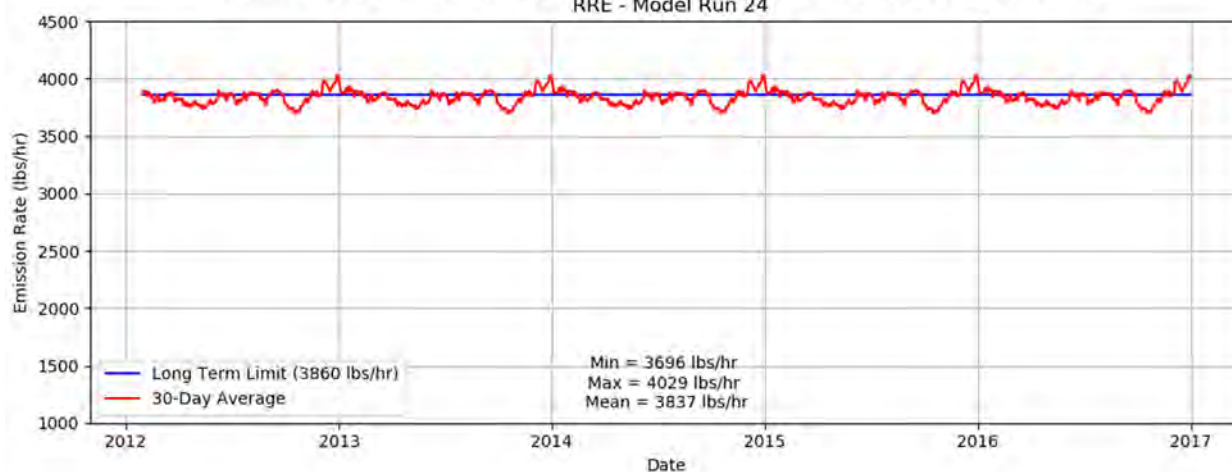
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 22



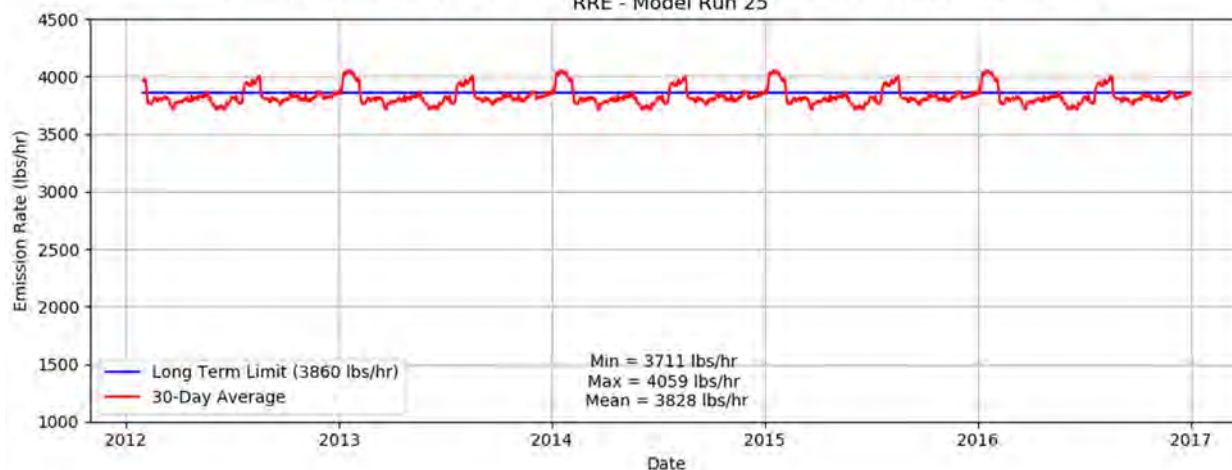
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 23



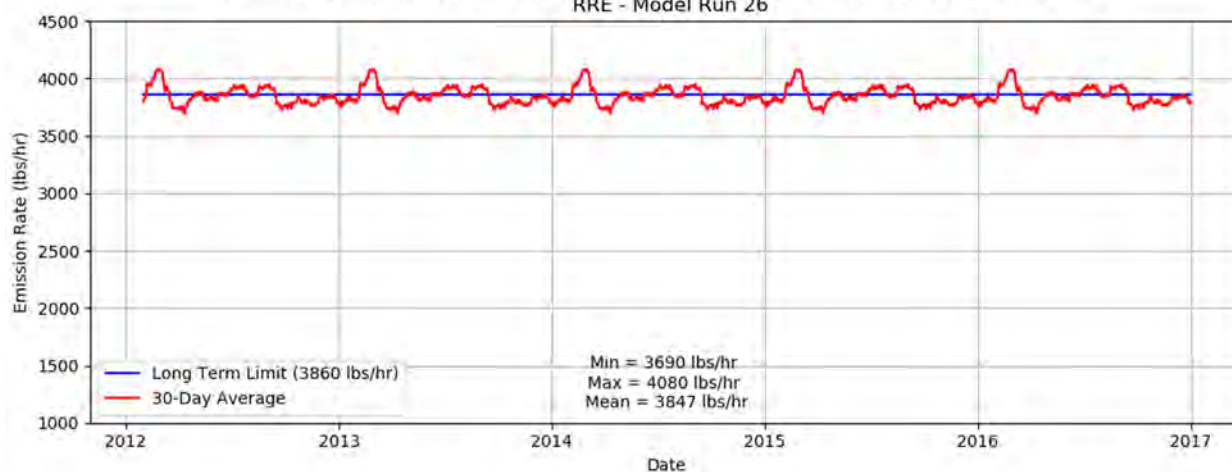
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 24



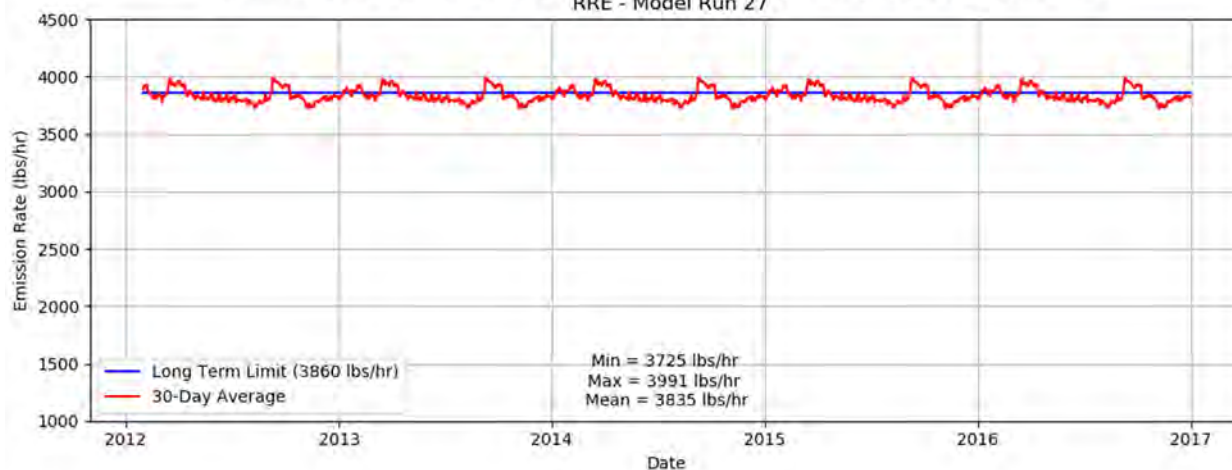
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 25



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 26

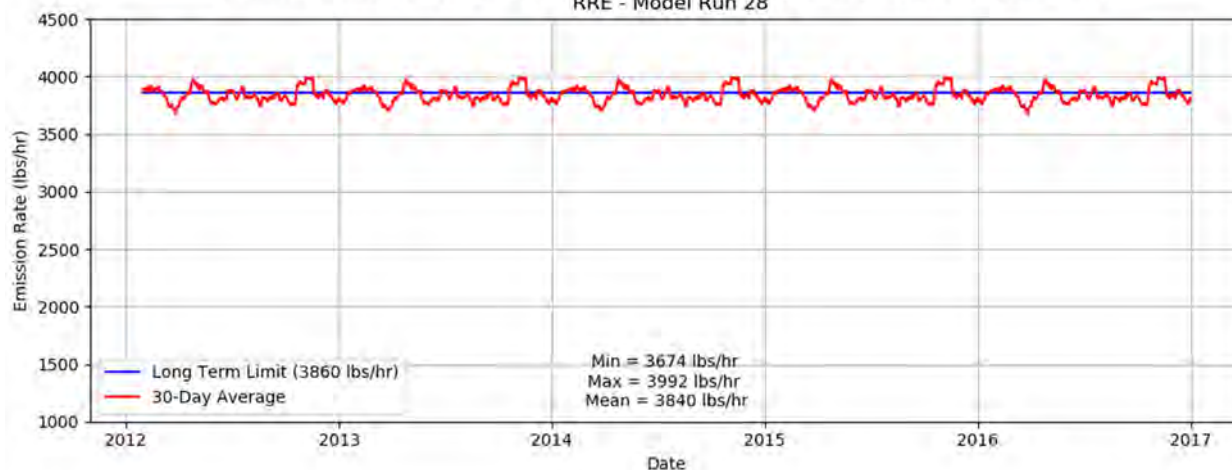


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 27

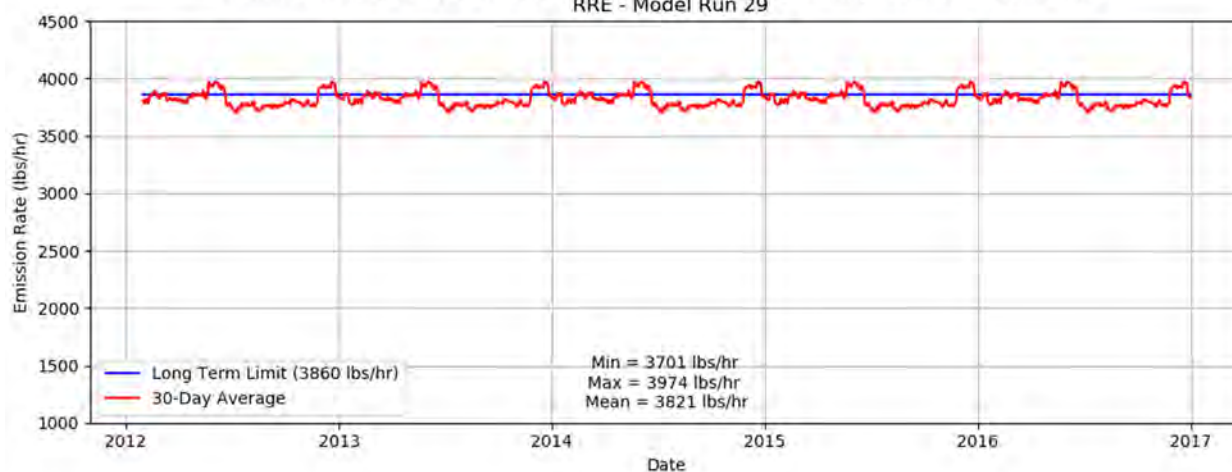




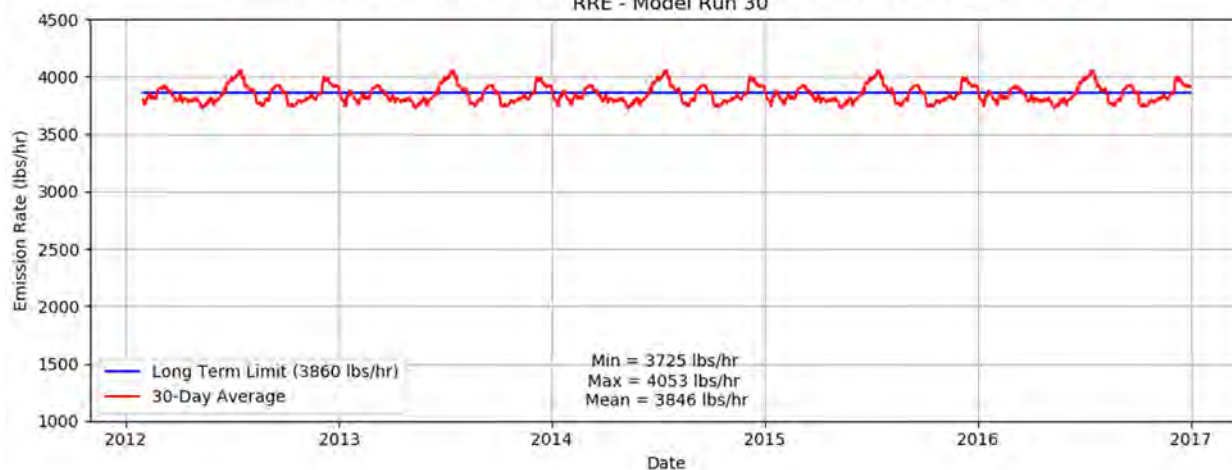
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 28



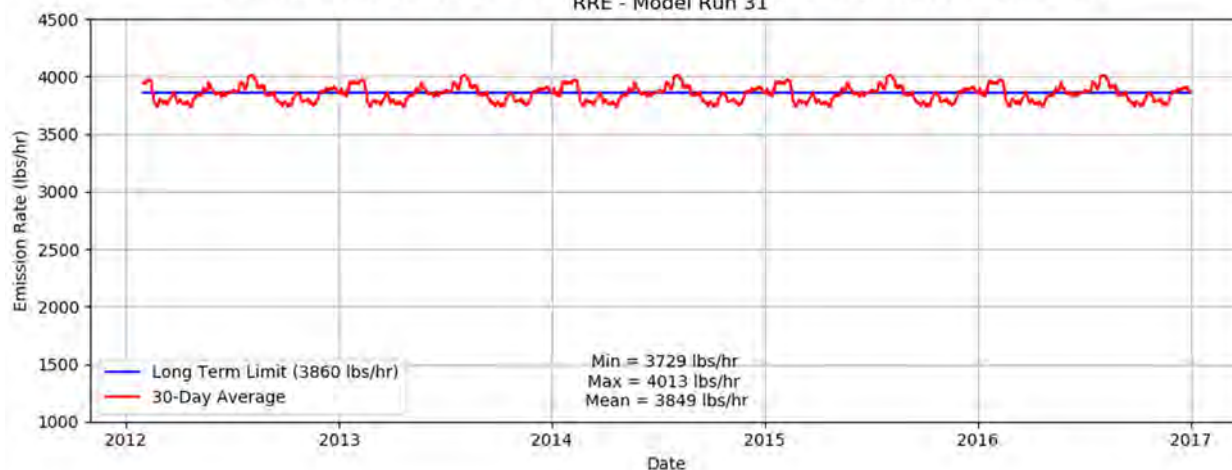
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 29



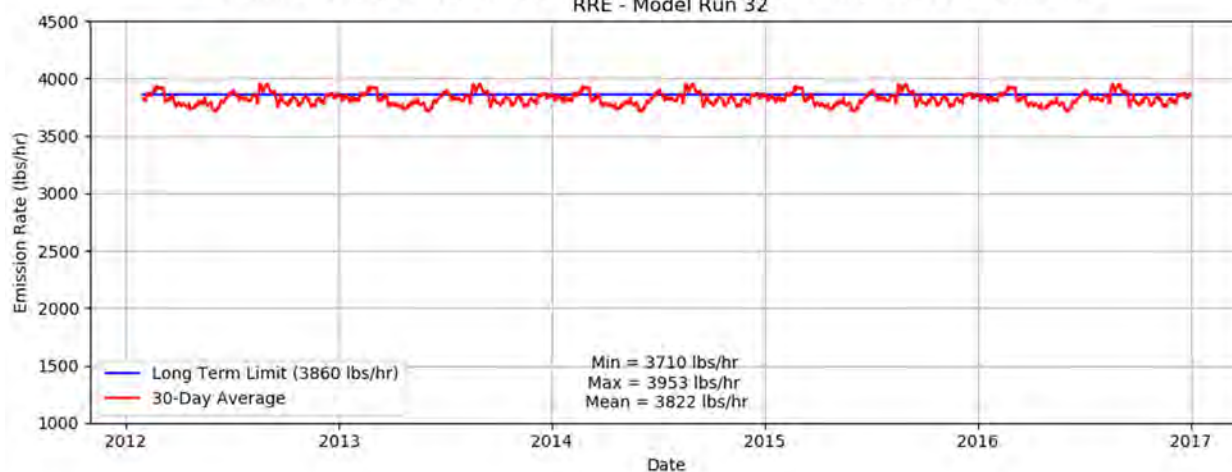
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 30



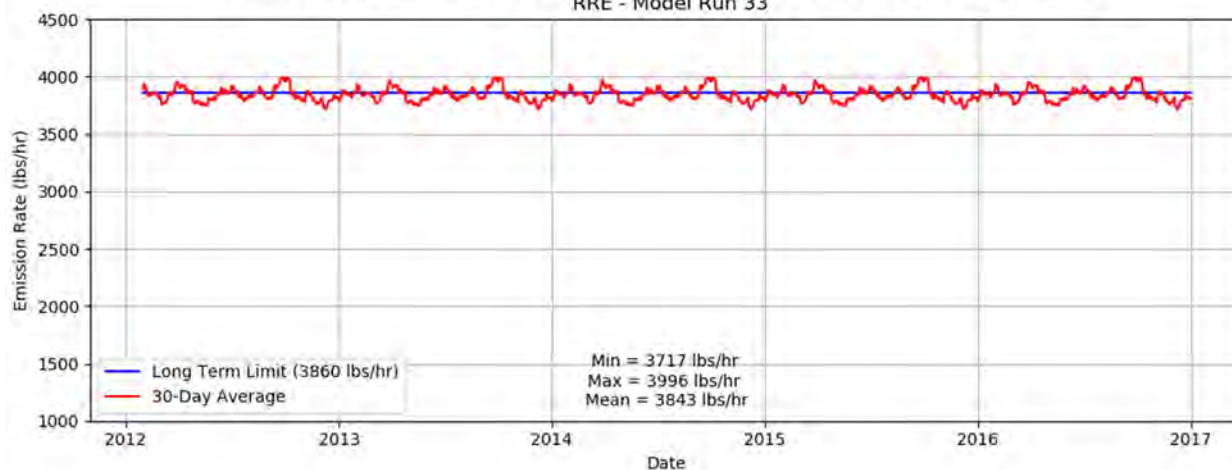
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 31



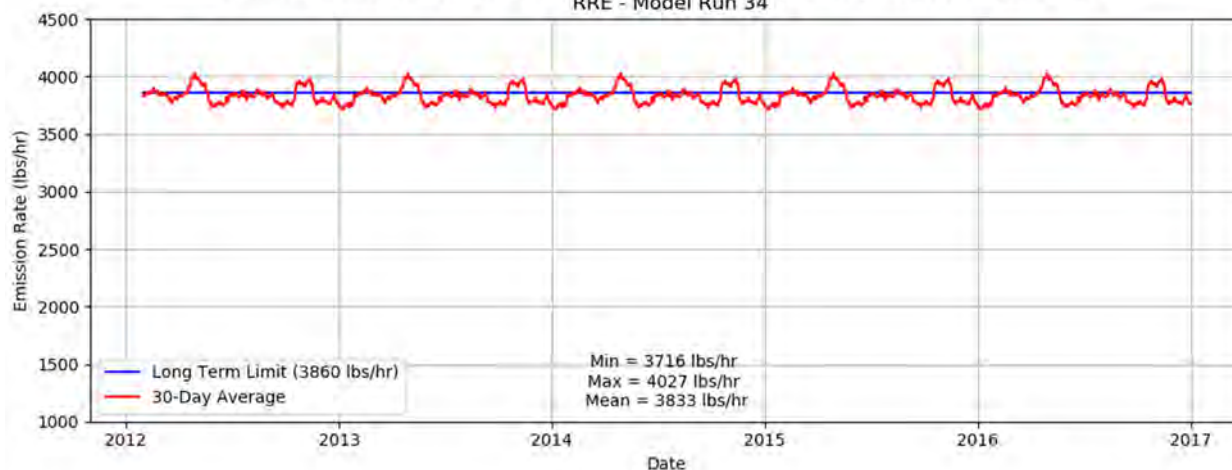
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 32



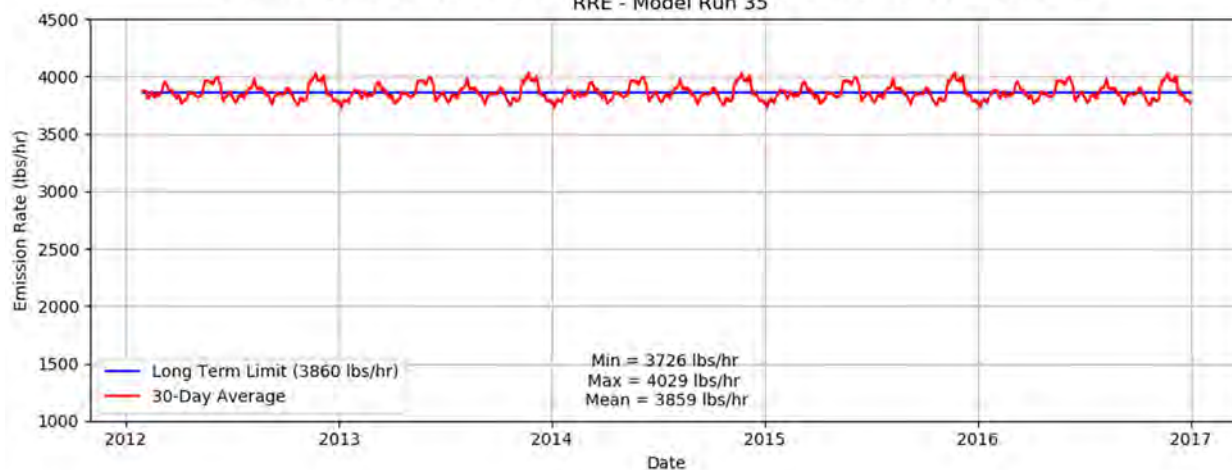
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 33



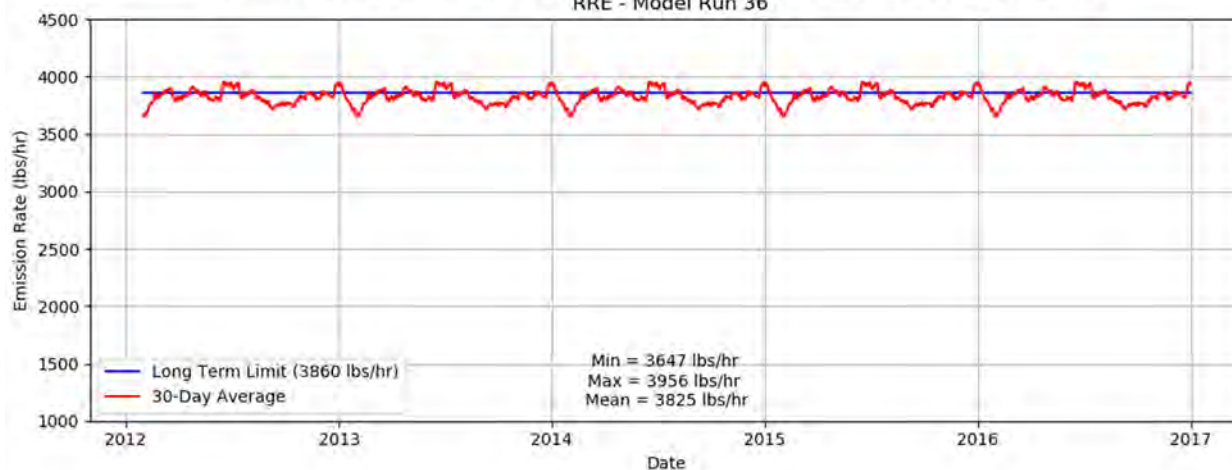
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 34



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 35

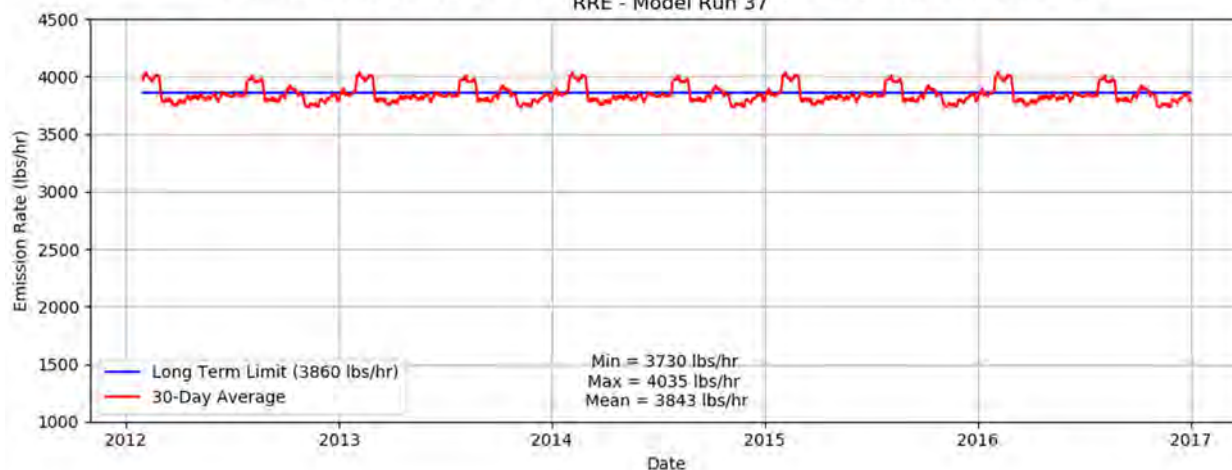


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 36

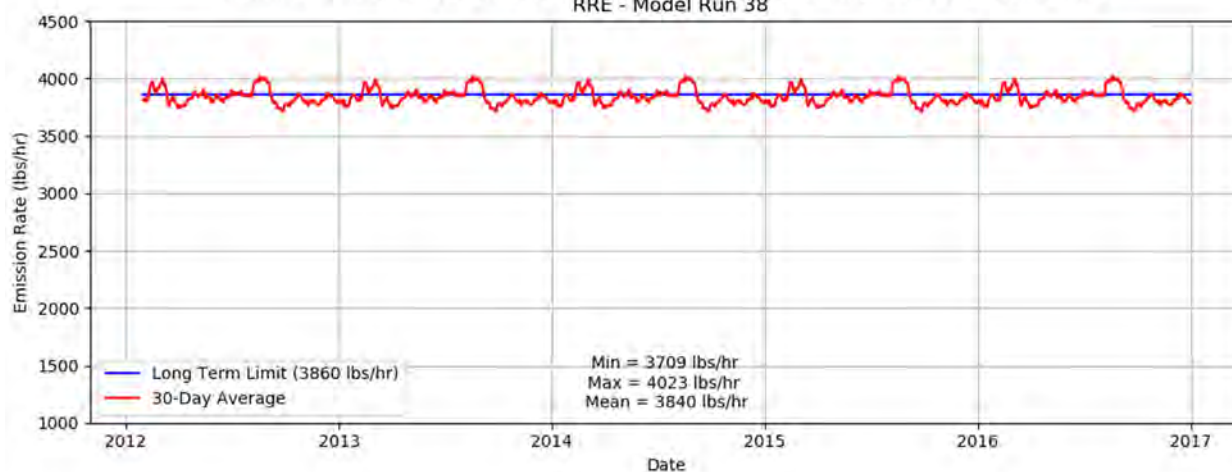




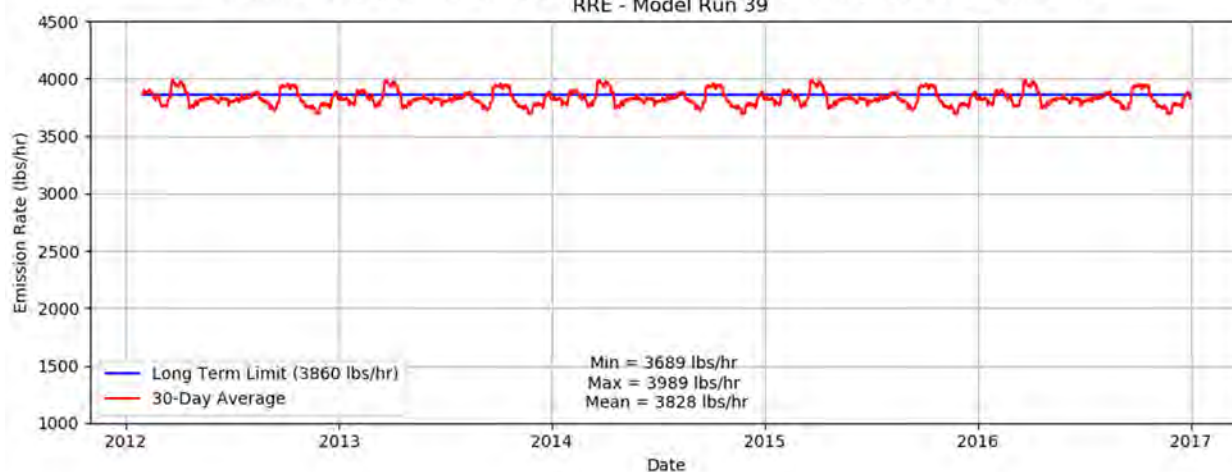
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 37



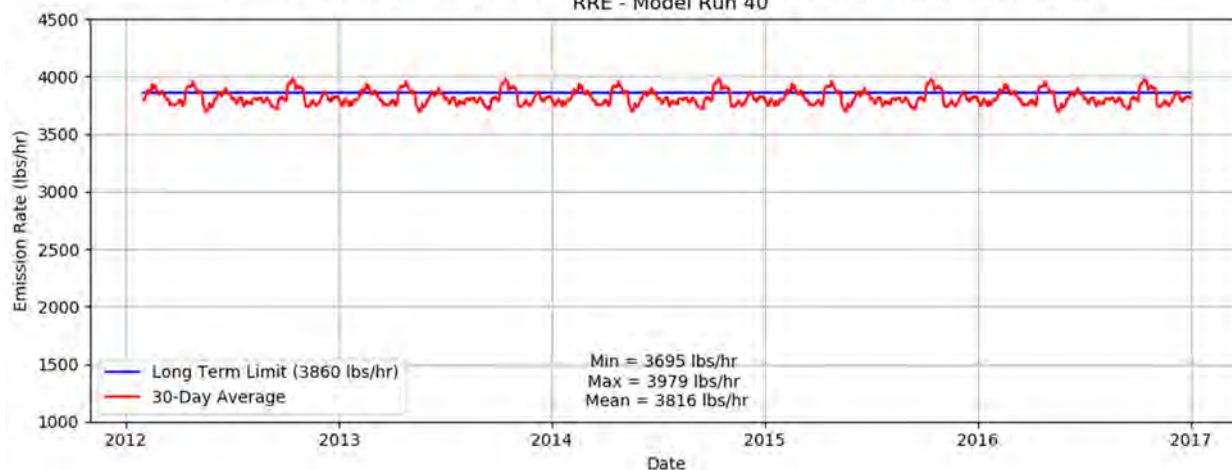
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 38



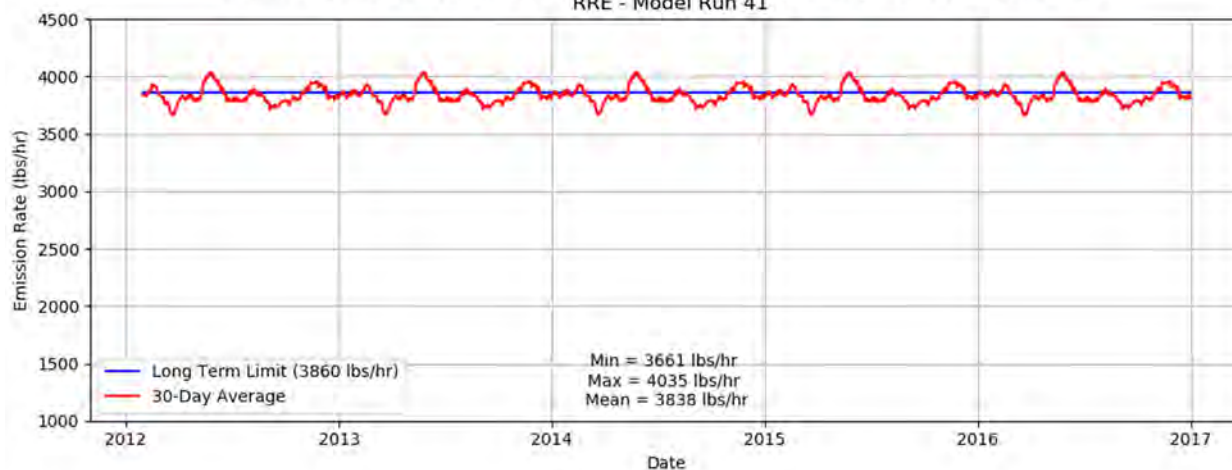
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 39



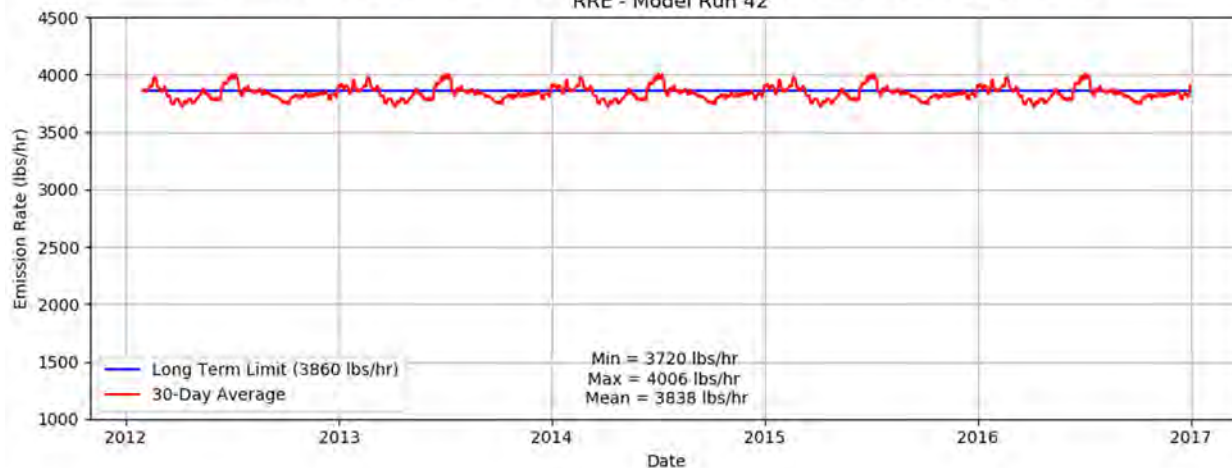
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 40



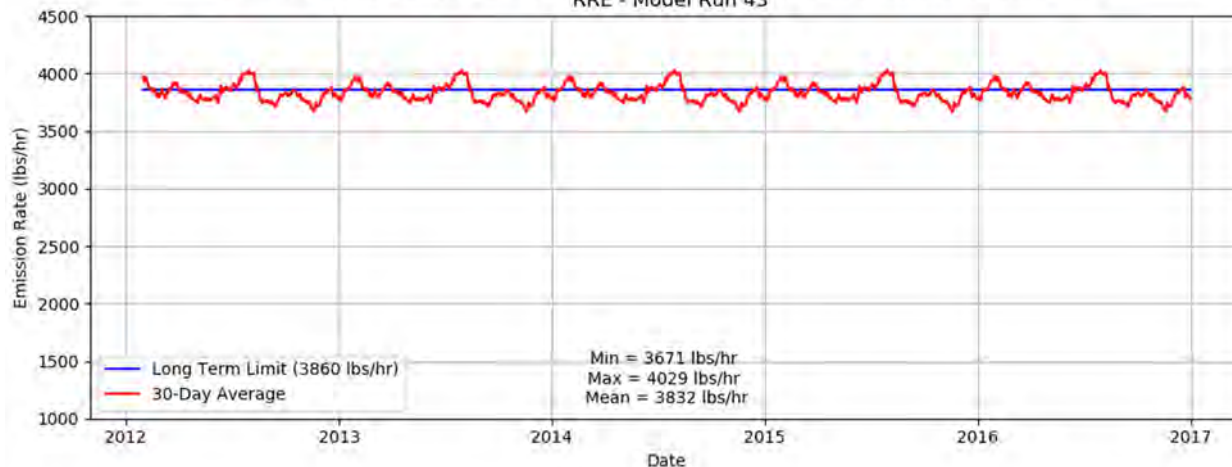
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 41



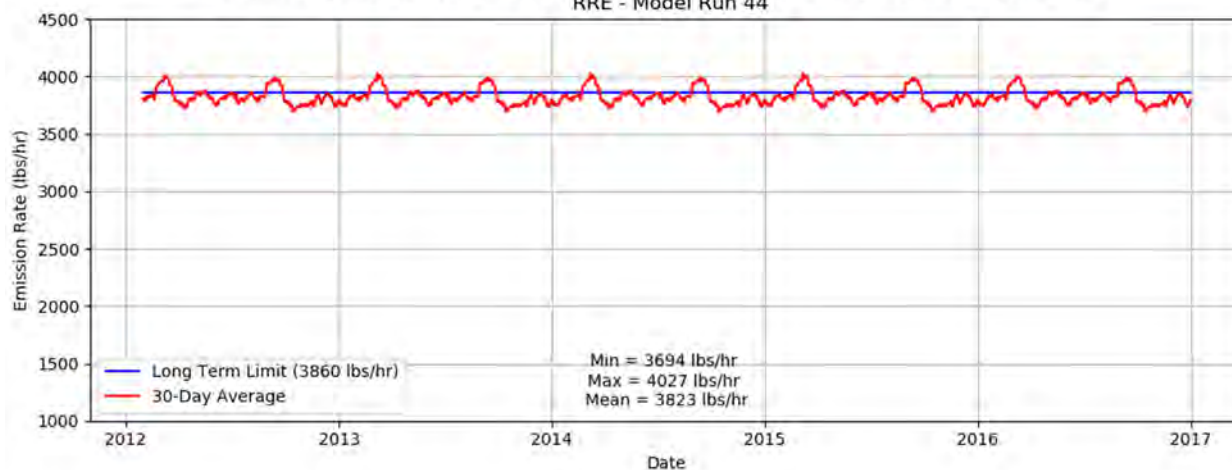
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 42



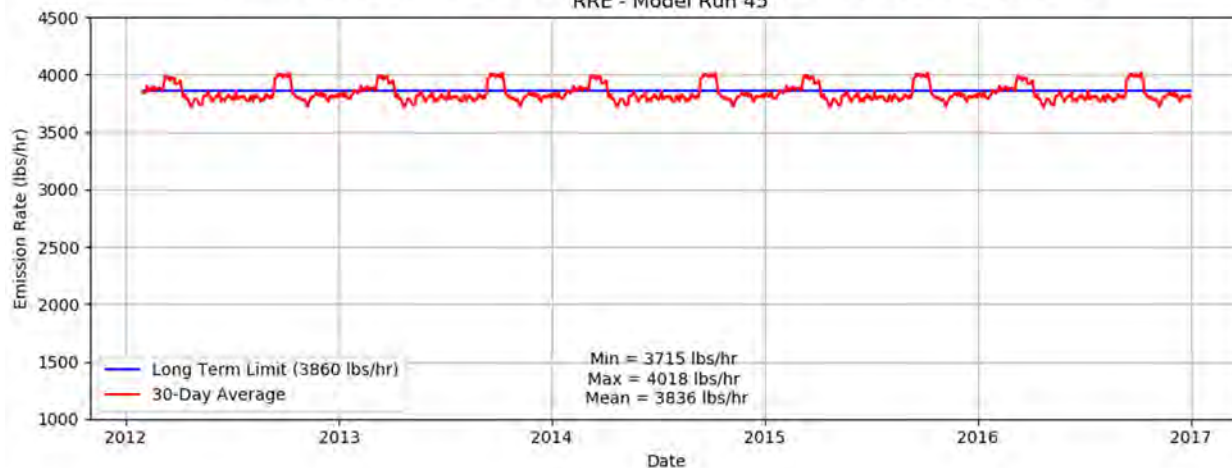
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 43



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 44

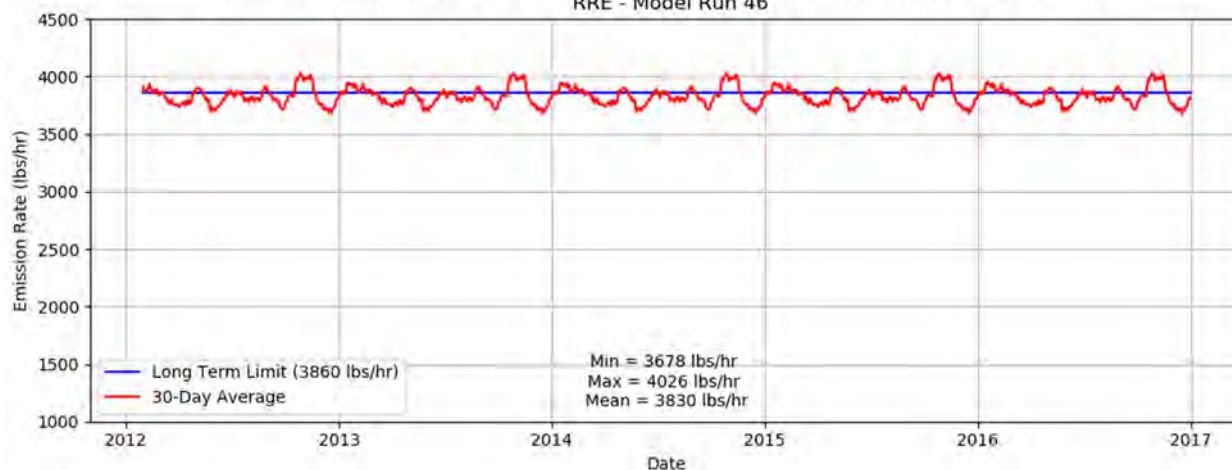


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 45

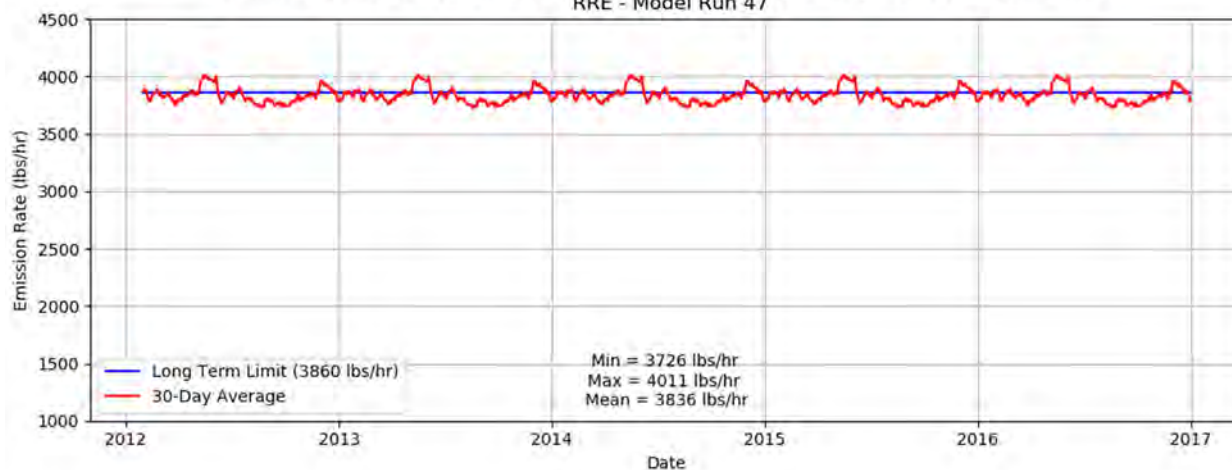




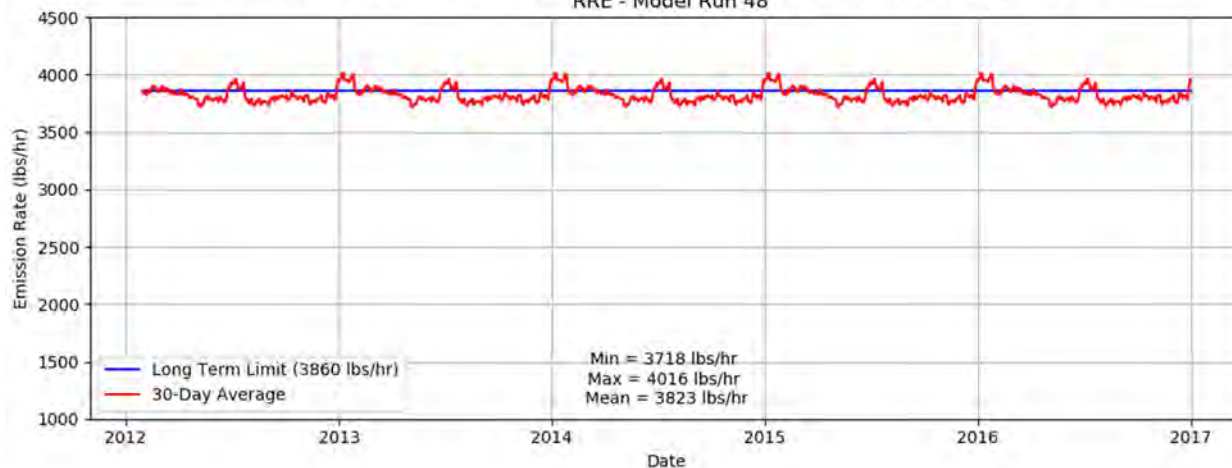
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 46



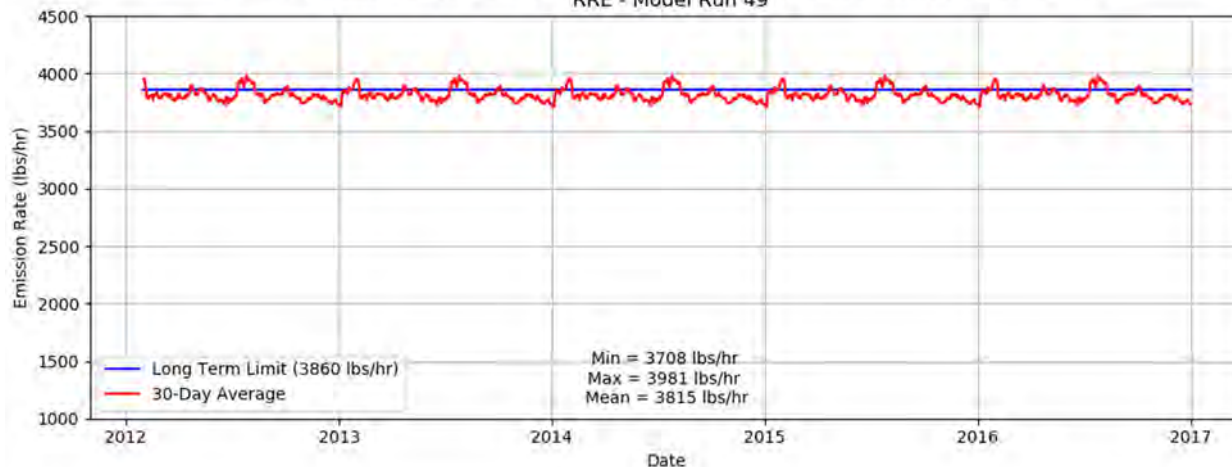
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 47



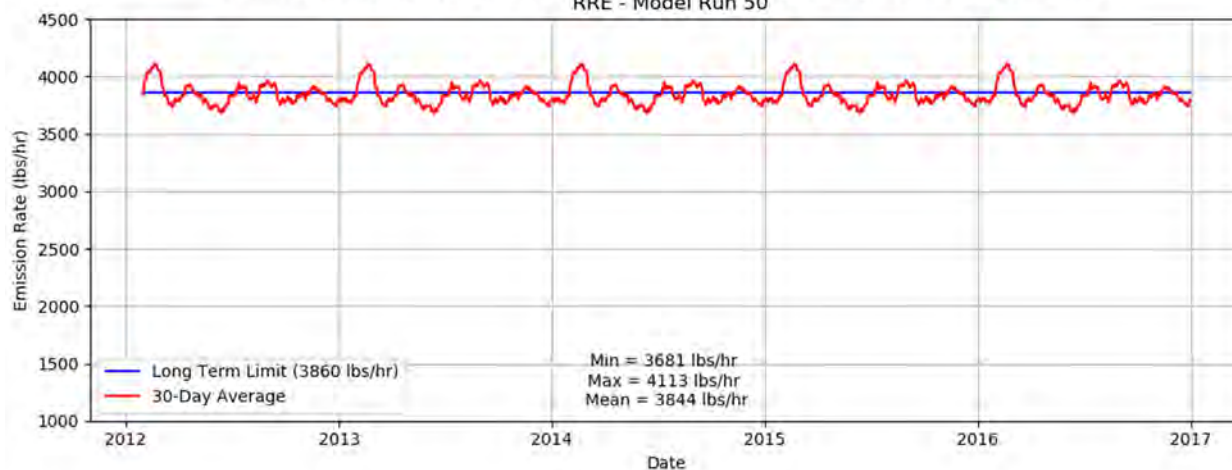
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 48



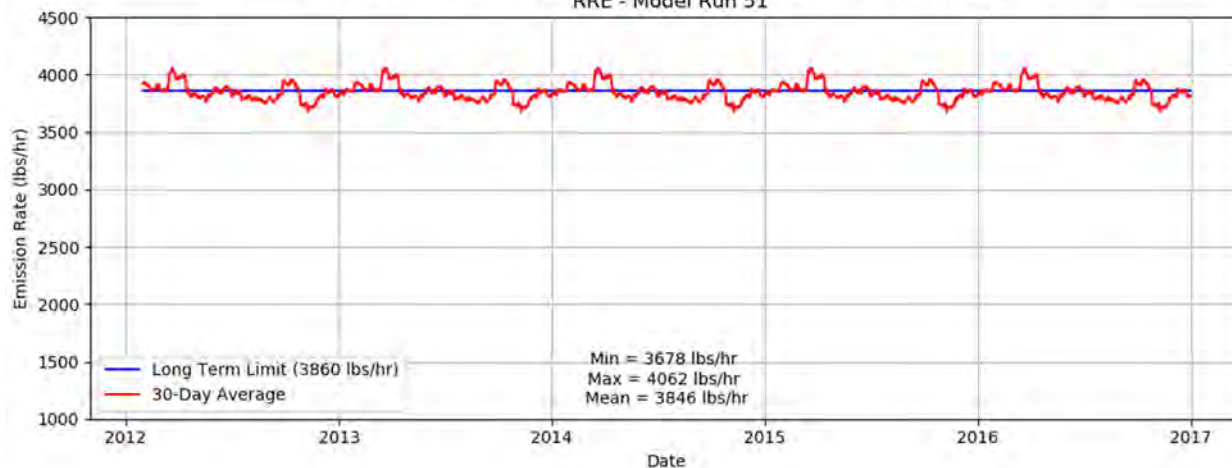
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 49



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 50

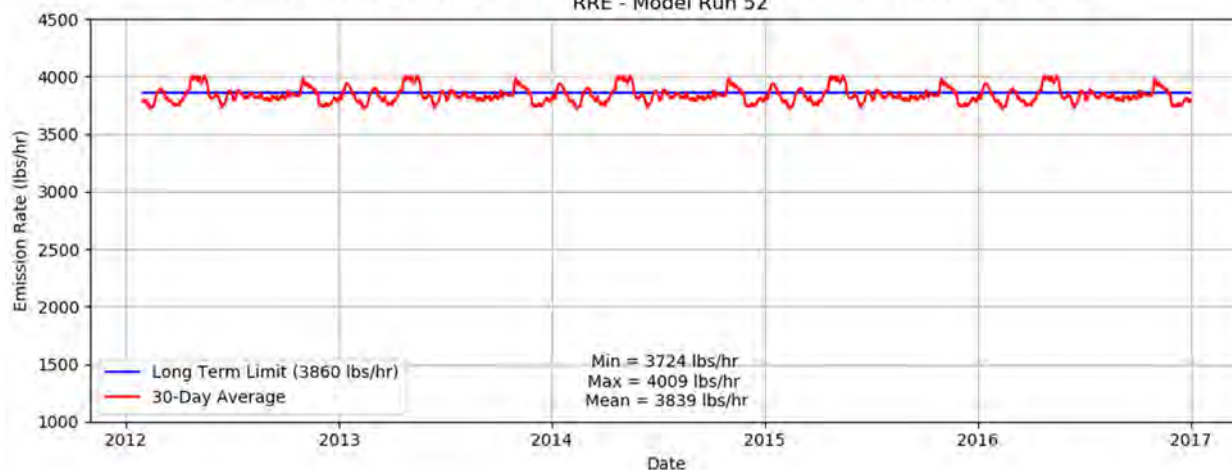


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 51

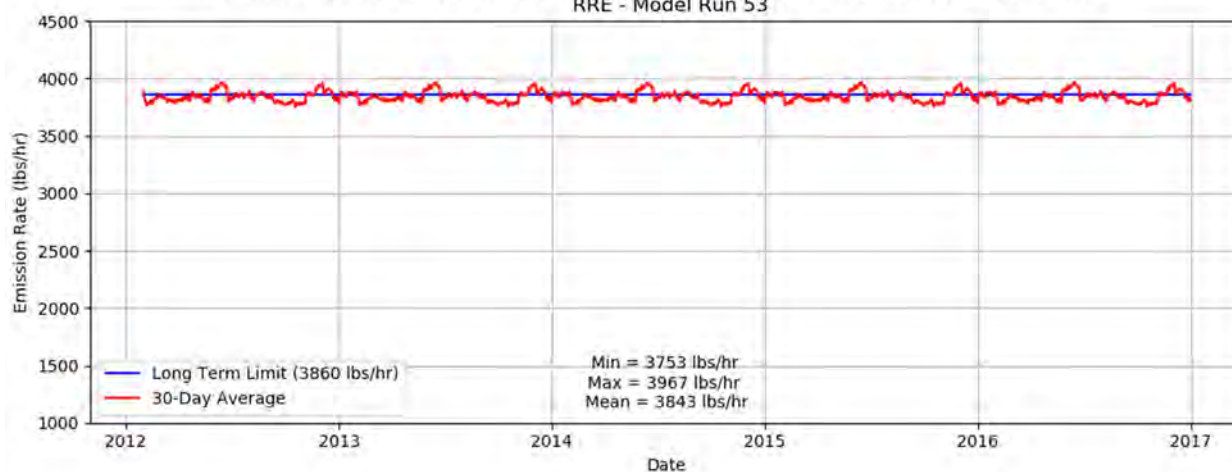




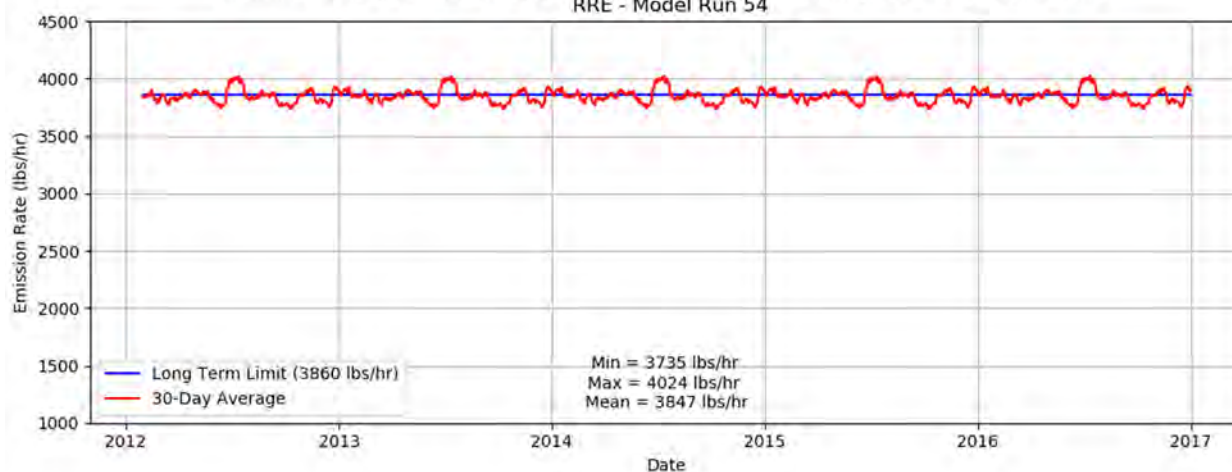
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 52



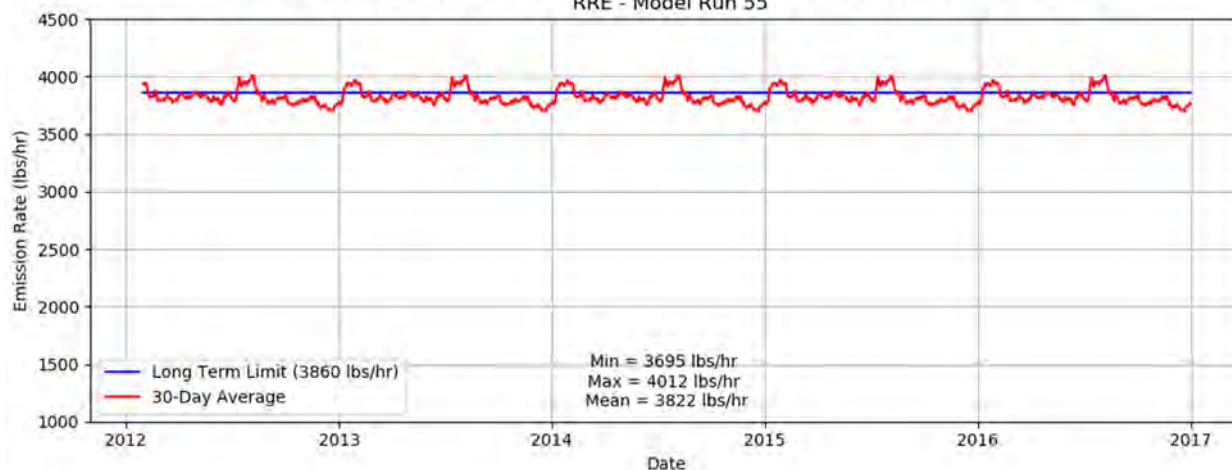
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 53



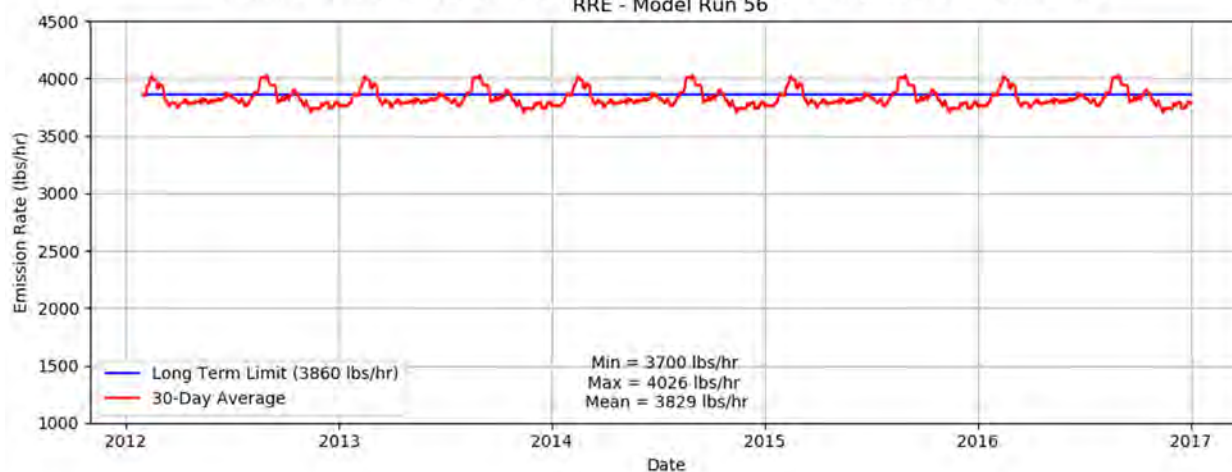
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 54



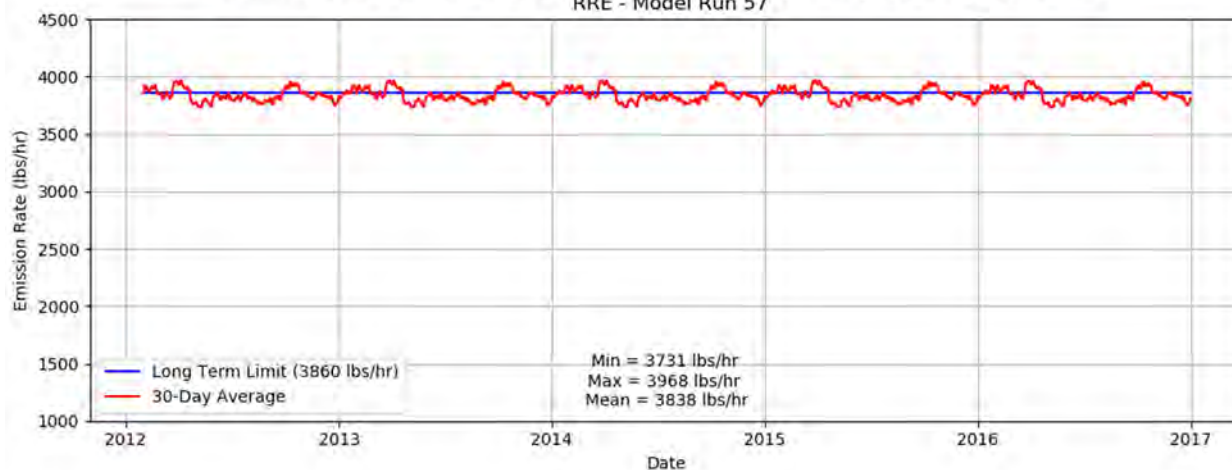
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 55



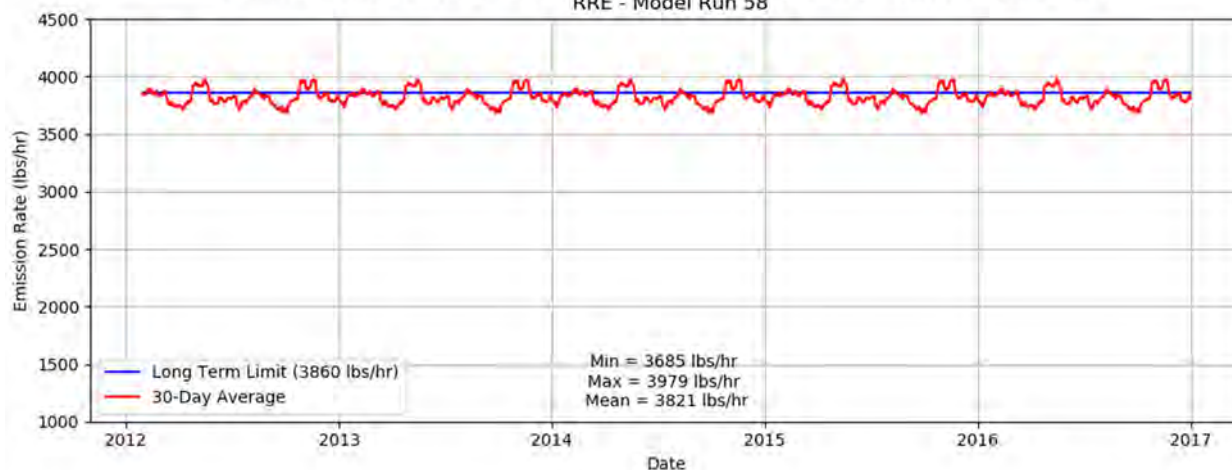
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 56



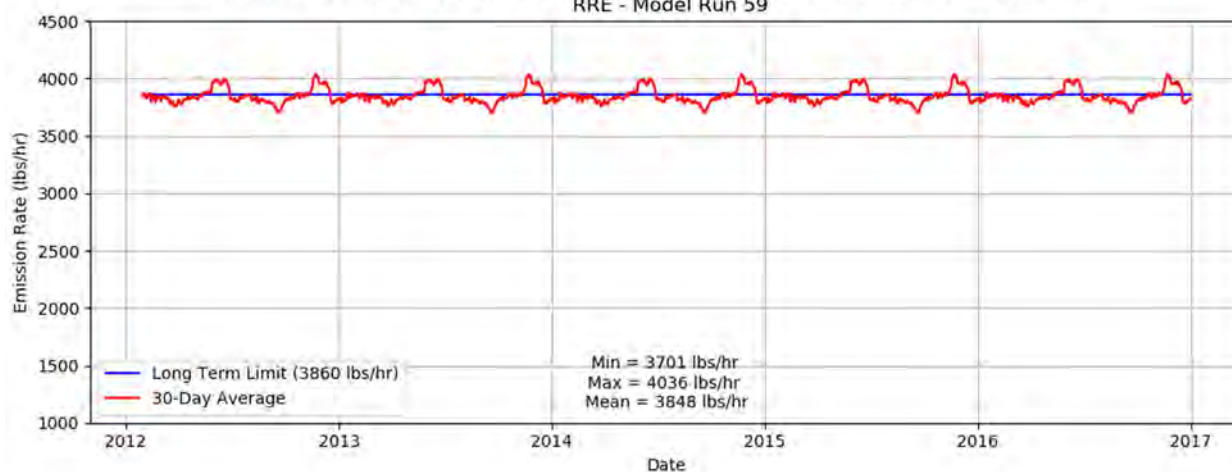
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 57



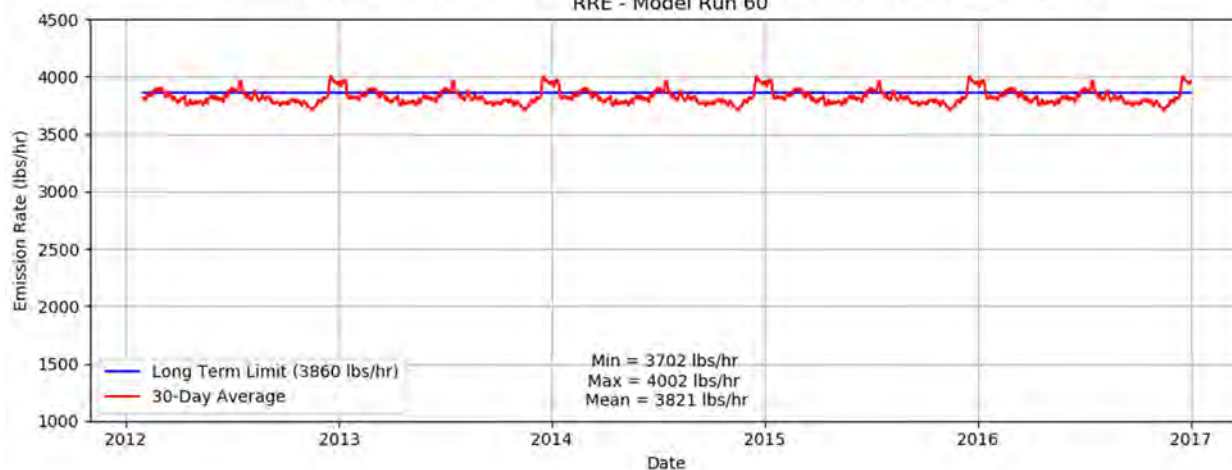
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 58



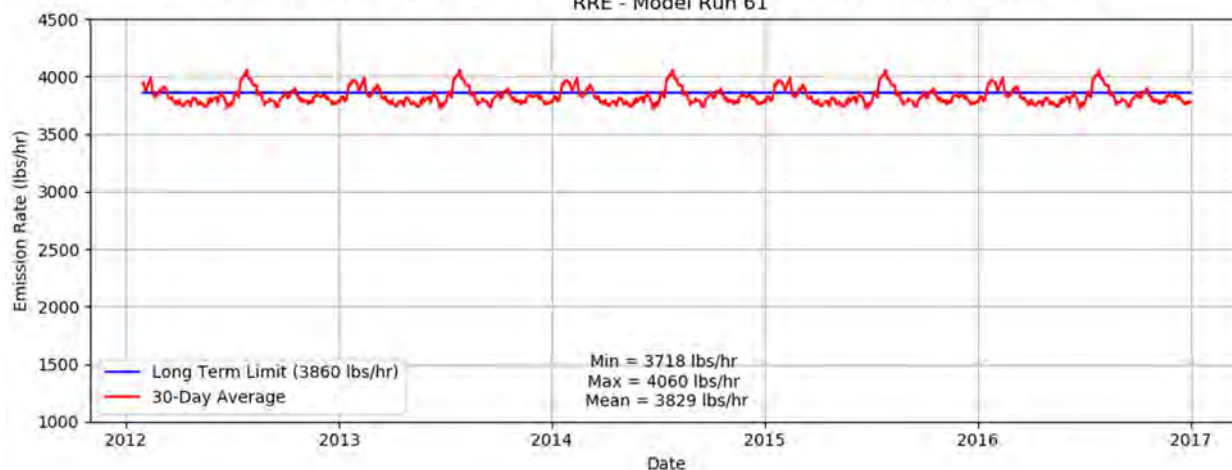
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 59



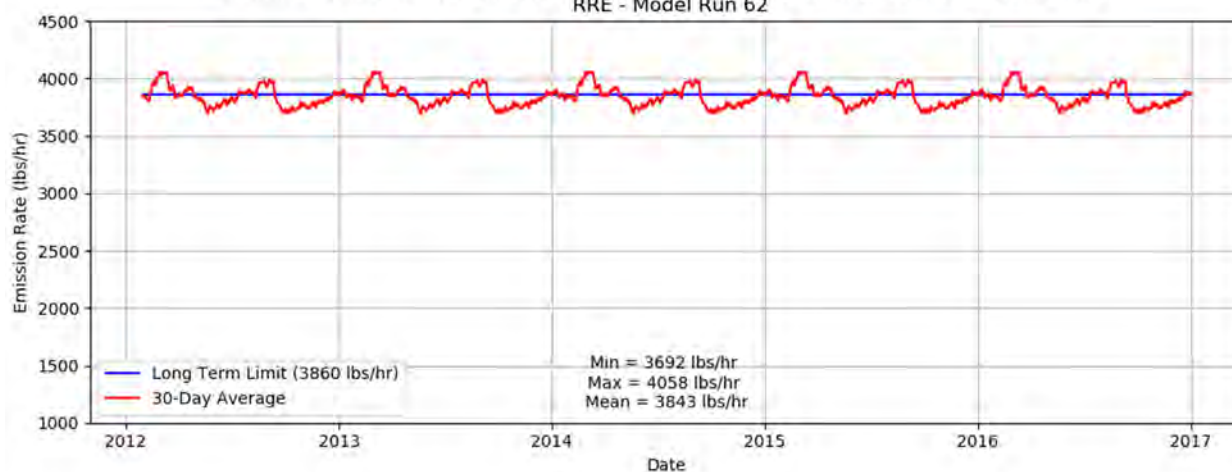
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 60



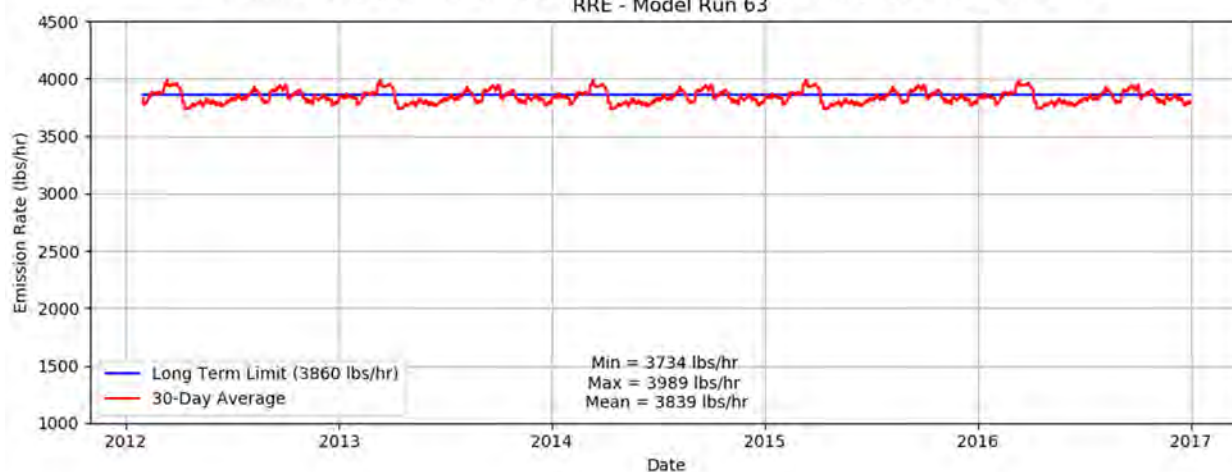
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 61



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 62

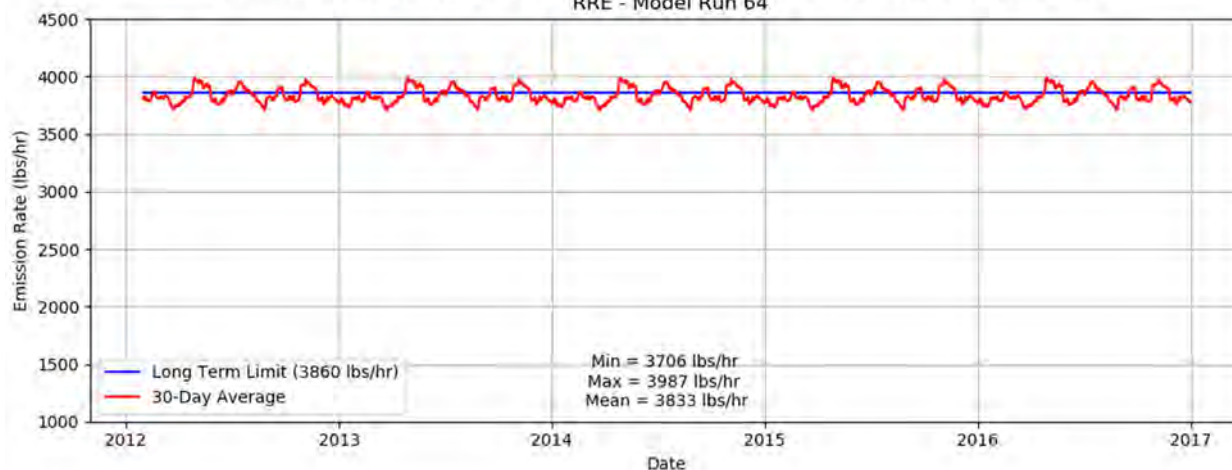


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 63

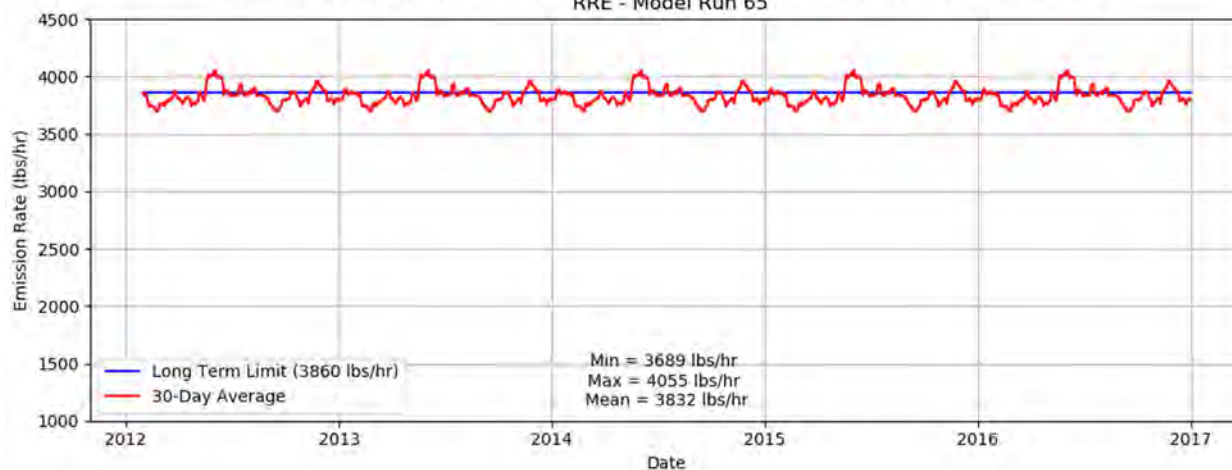




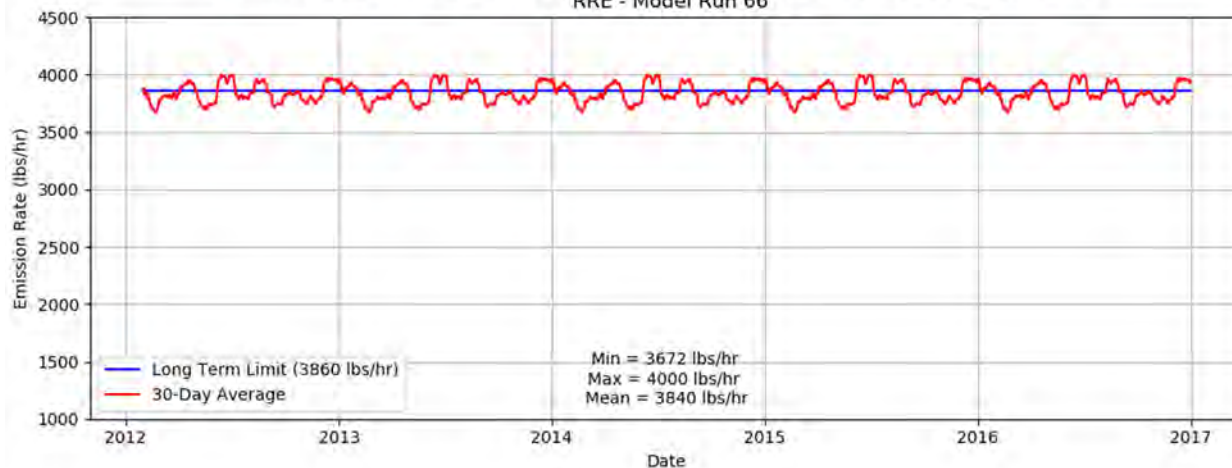
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 64



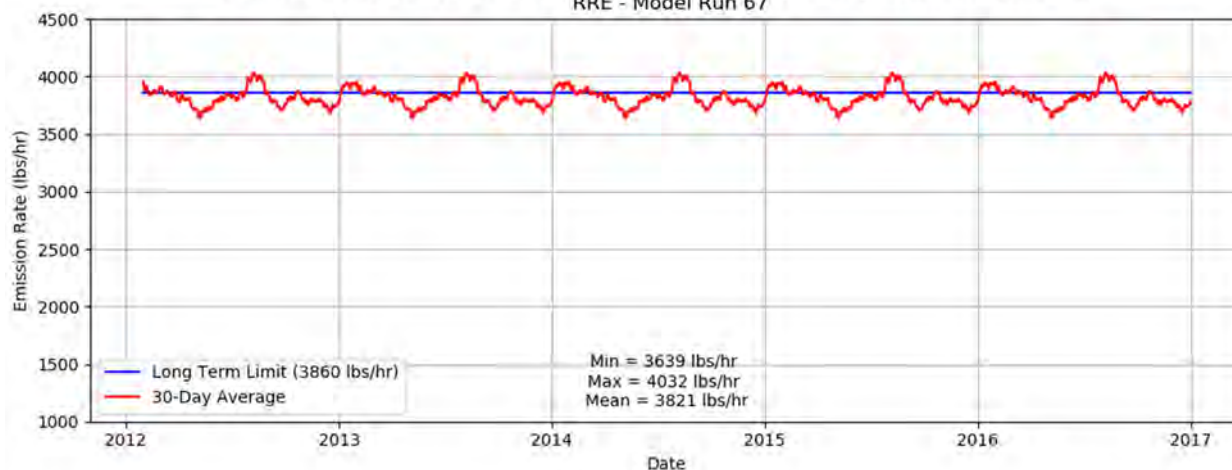
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 65



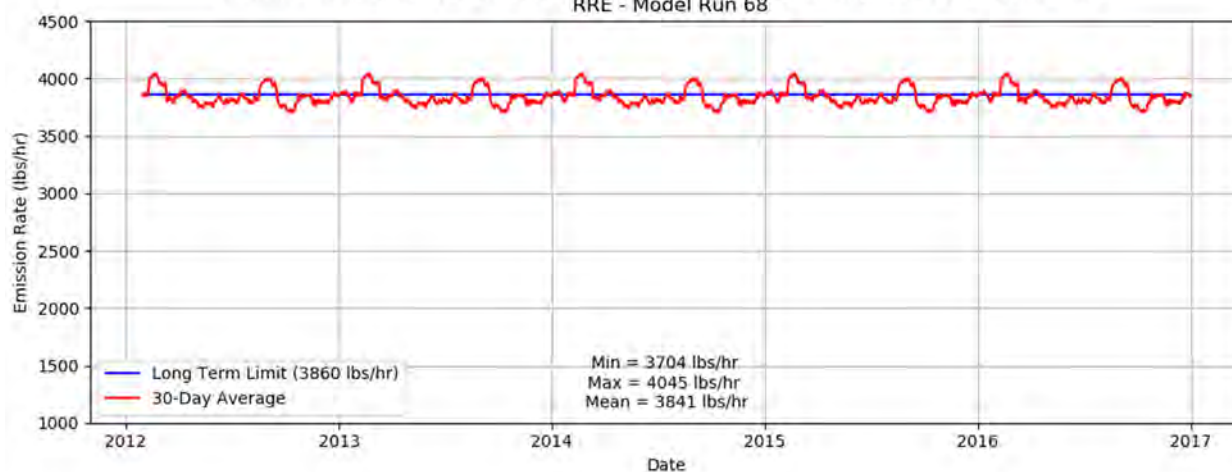
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 66



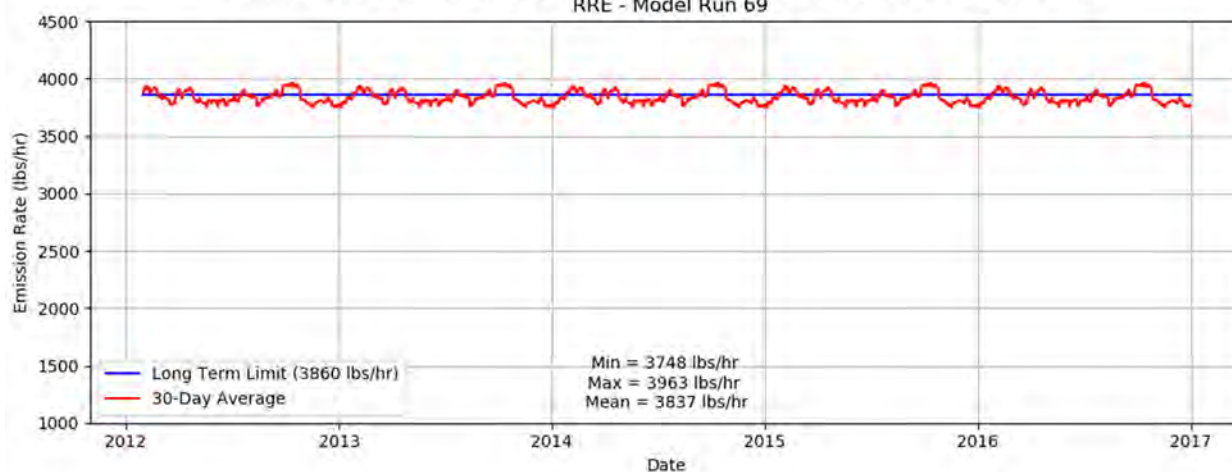
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 67



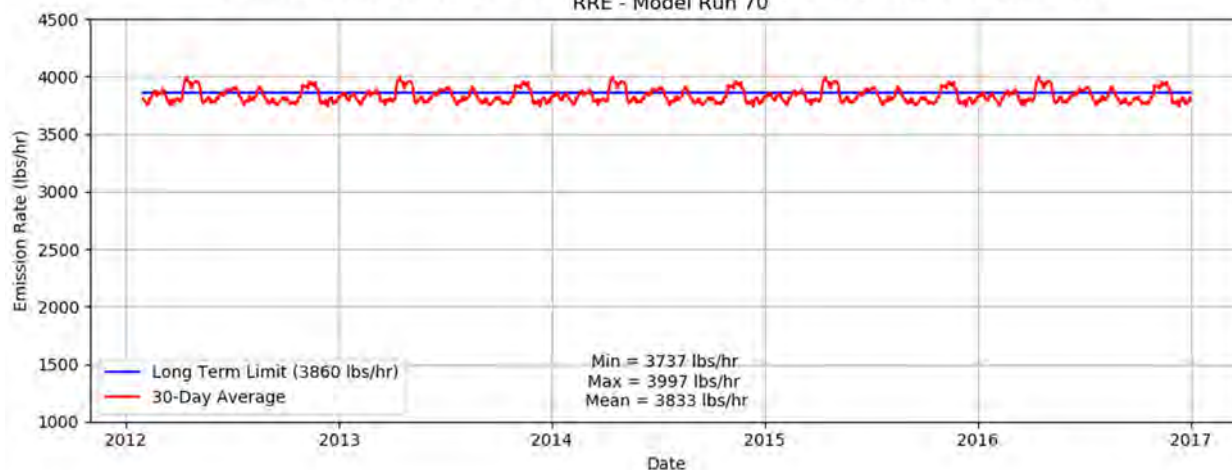
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 68



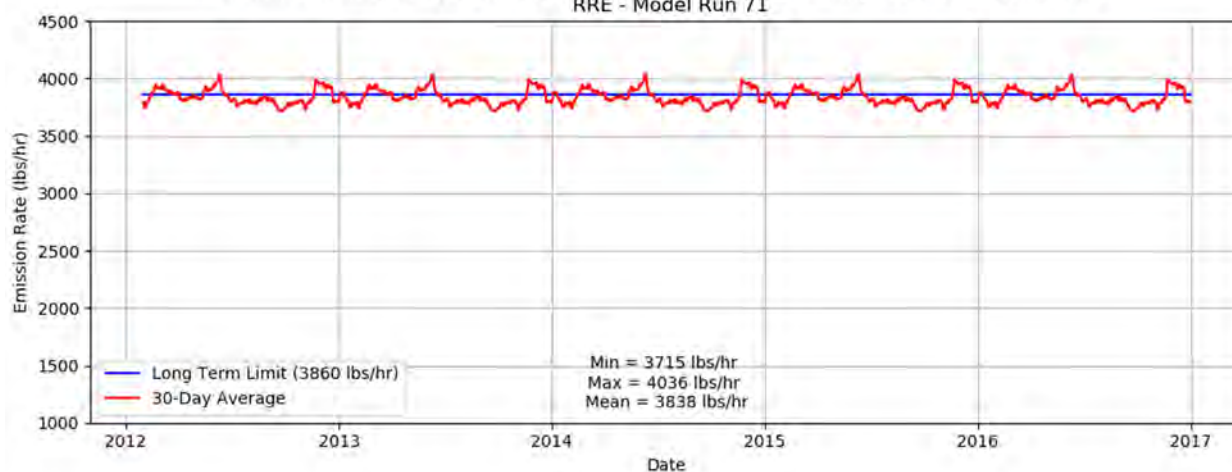
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 69



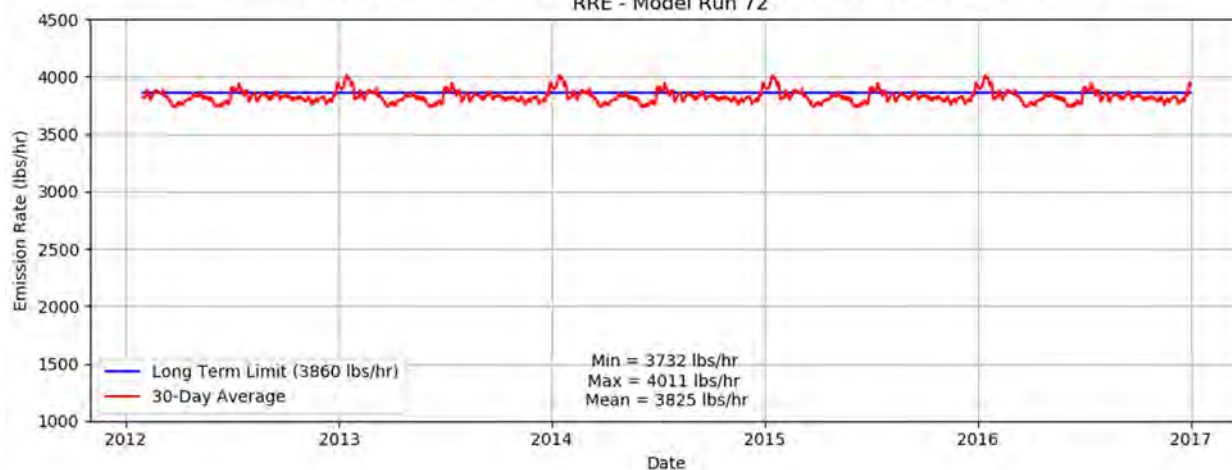
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 70



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 71

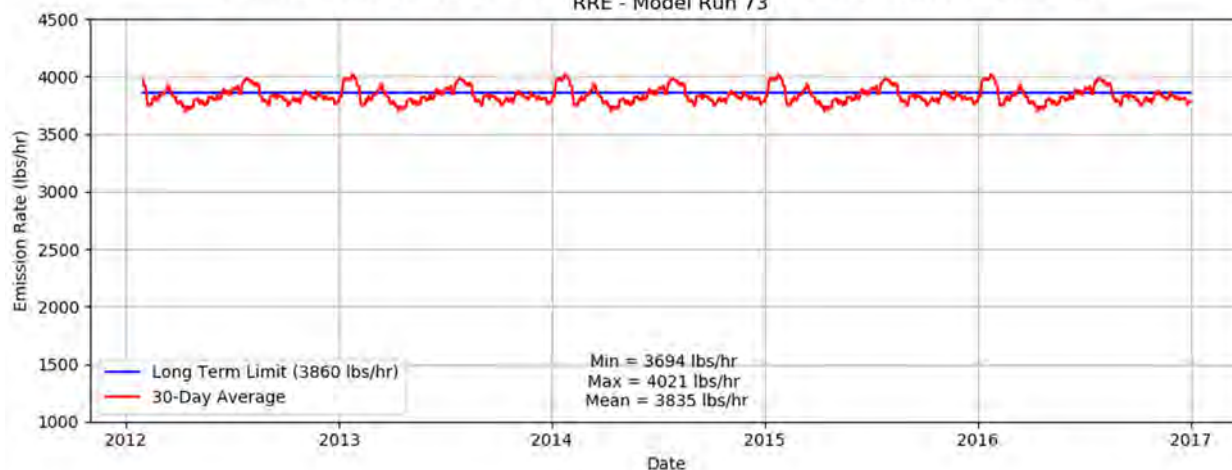


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 72

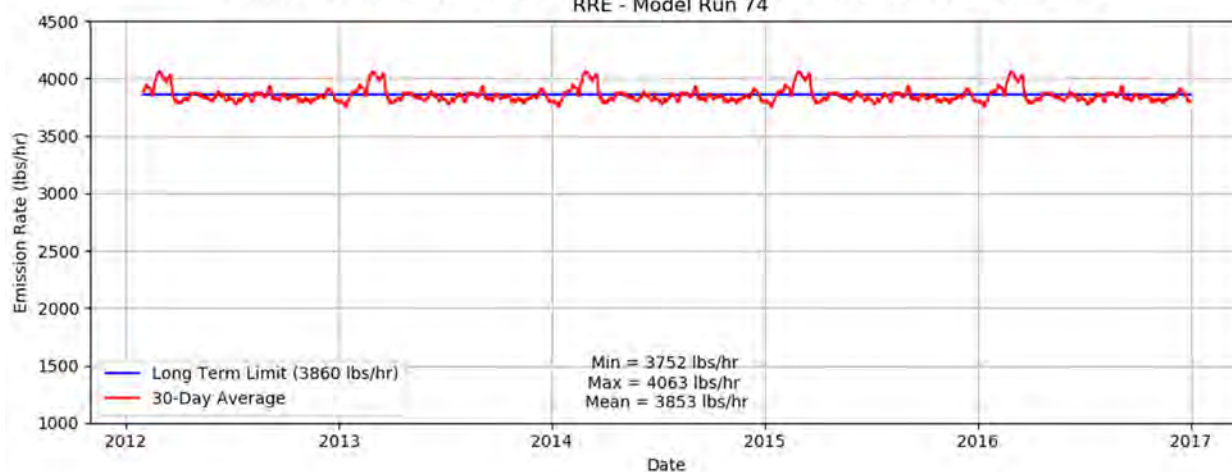




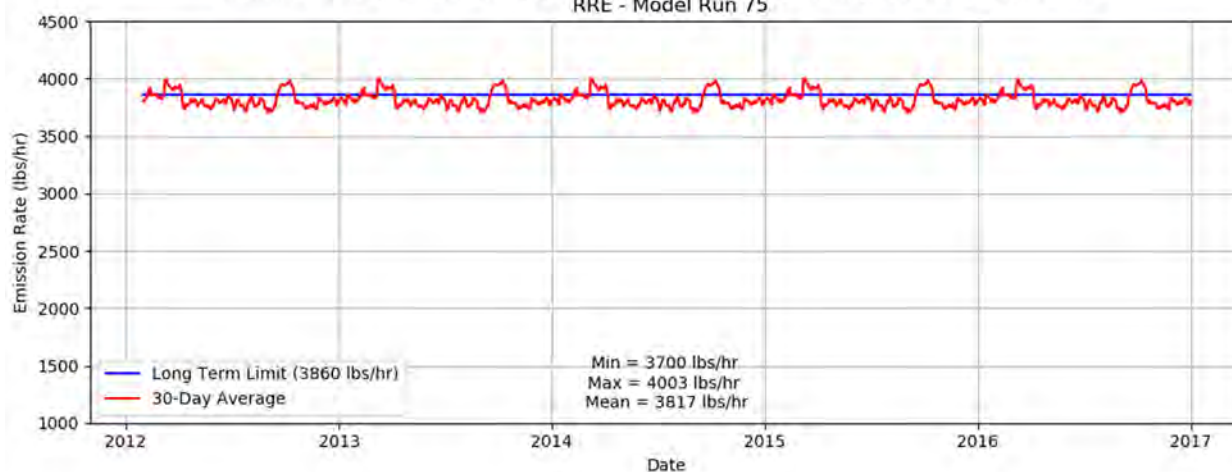
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 73



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 74

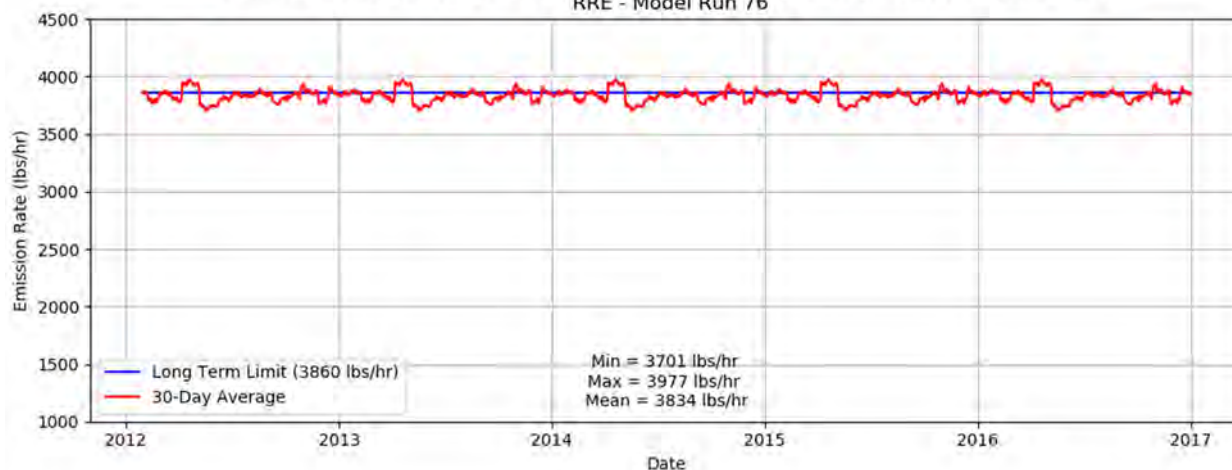


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 75

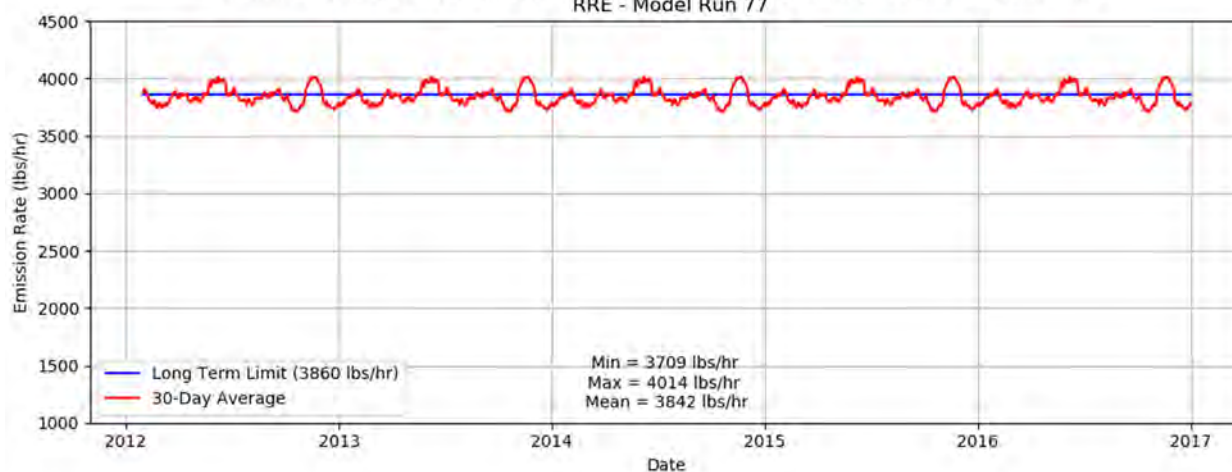




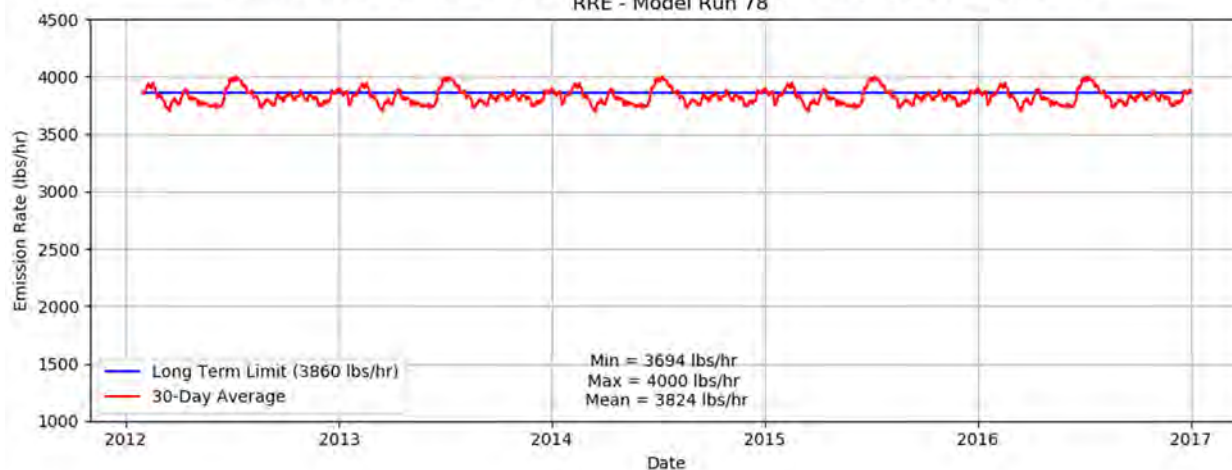
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 76



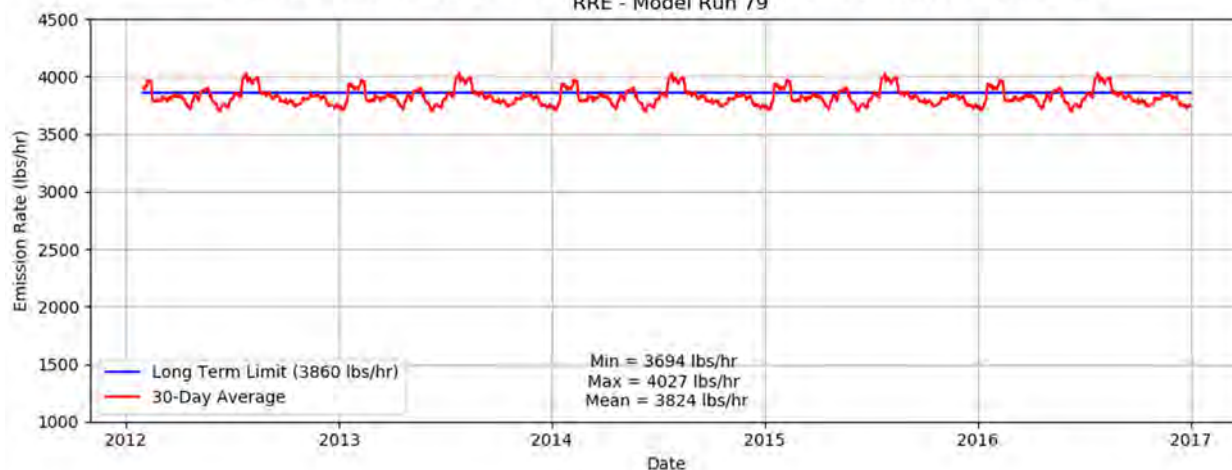
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 77



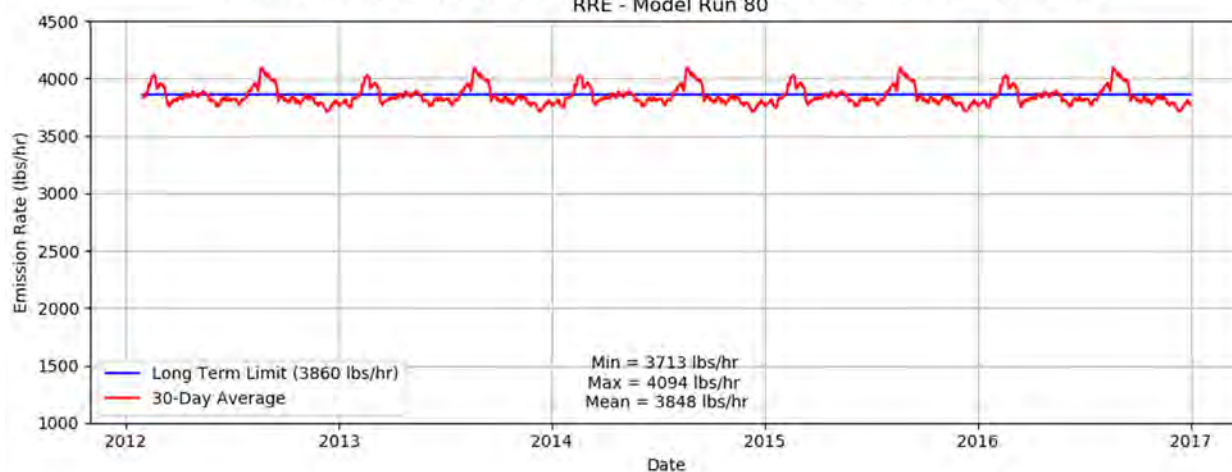
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 78



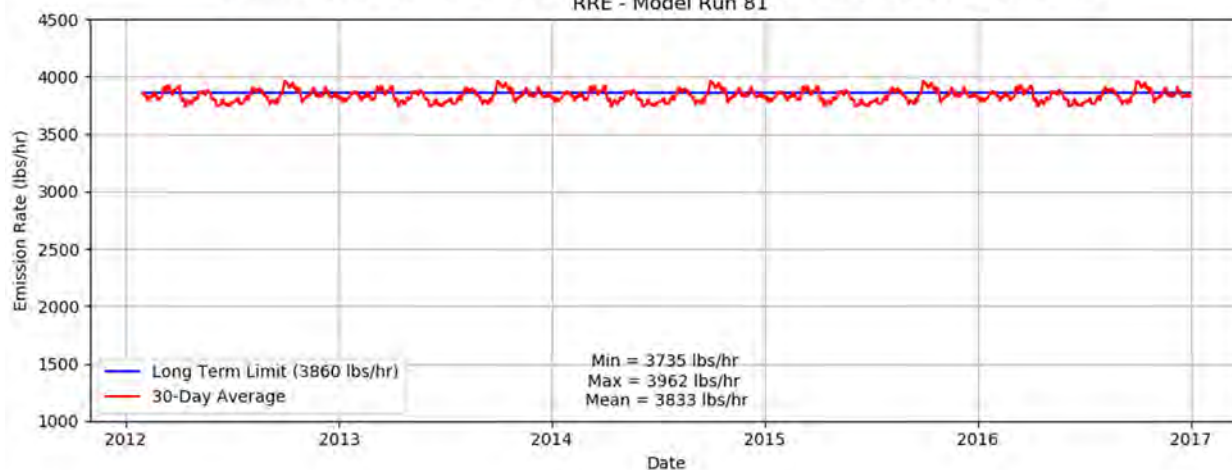
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 79



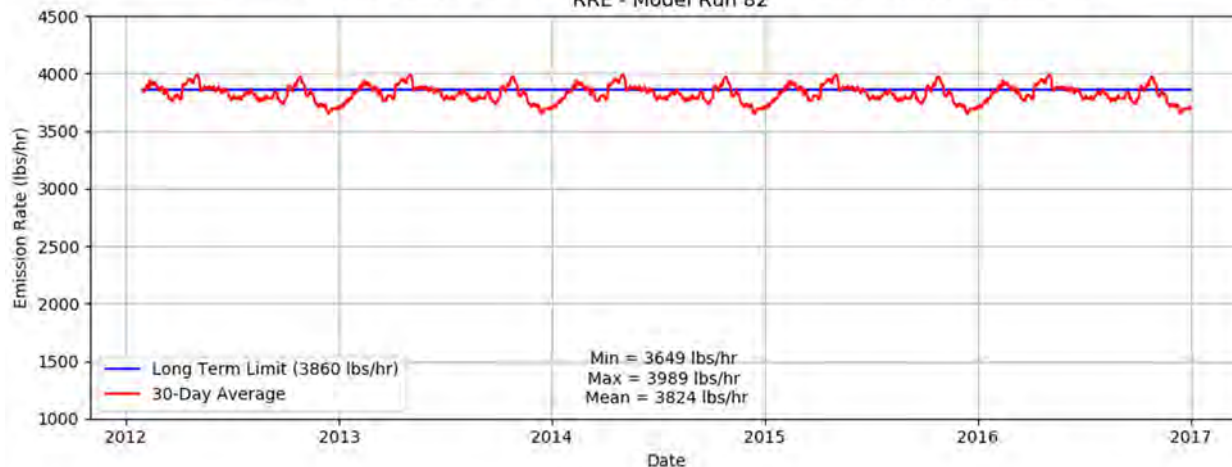
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 80



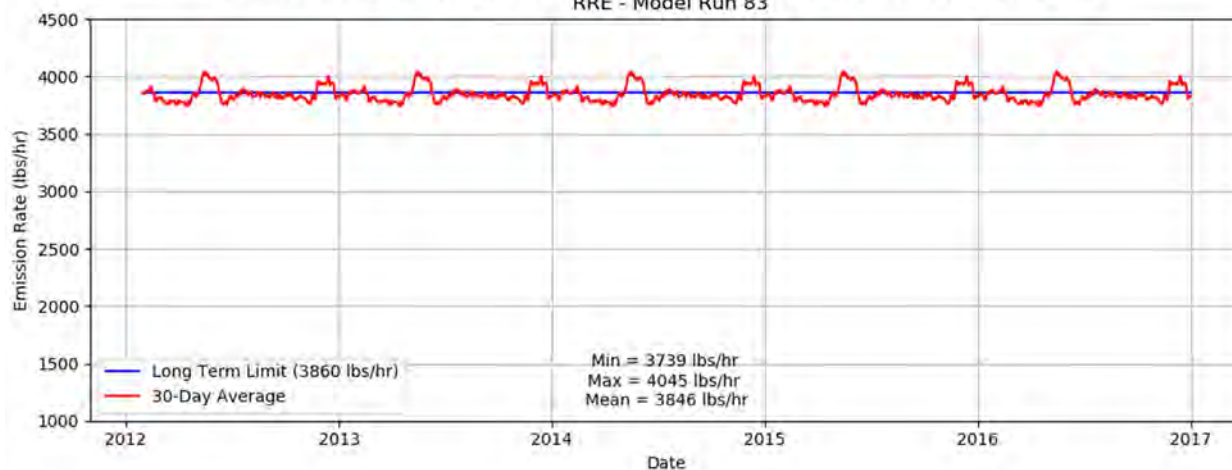
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 81



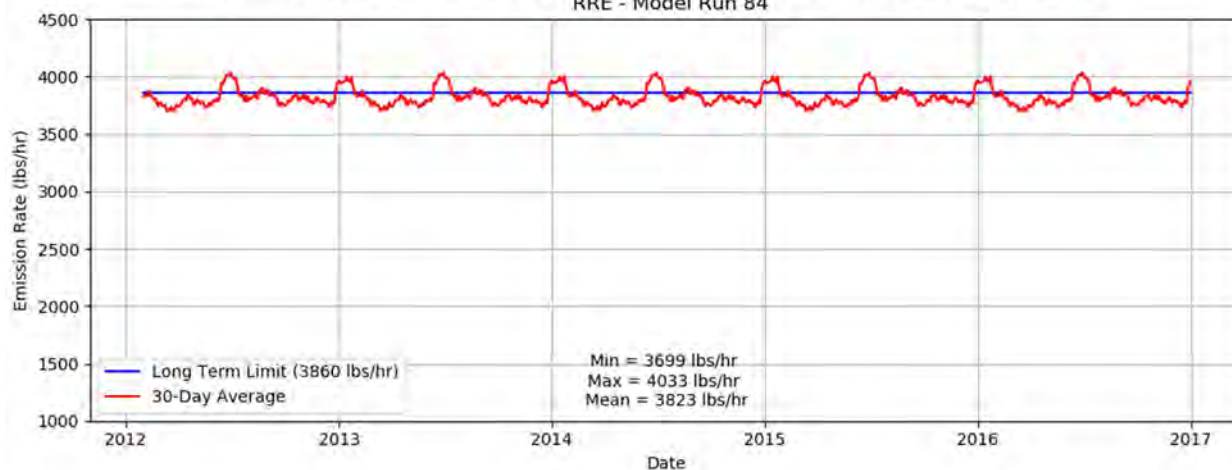
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 82



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 83

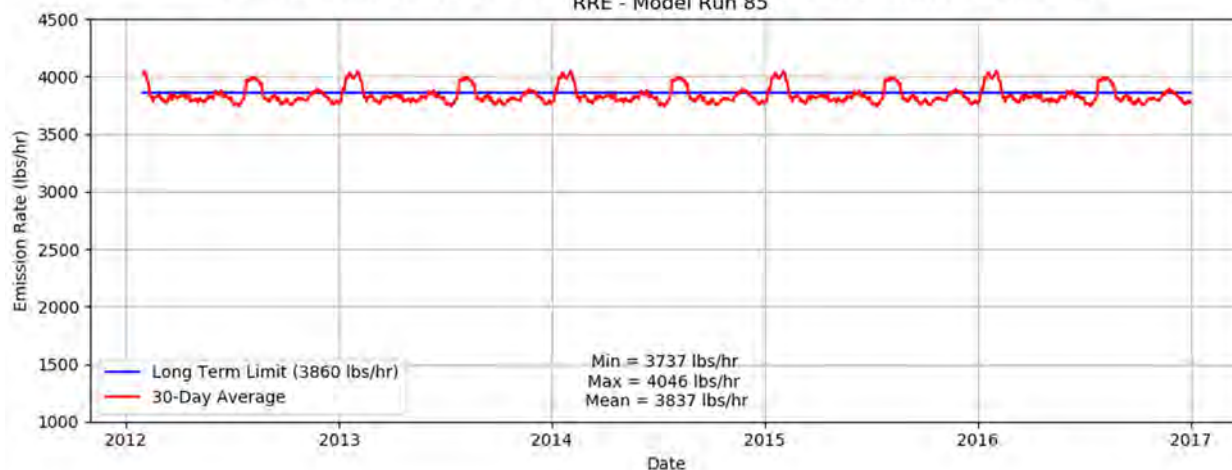


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 84

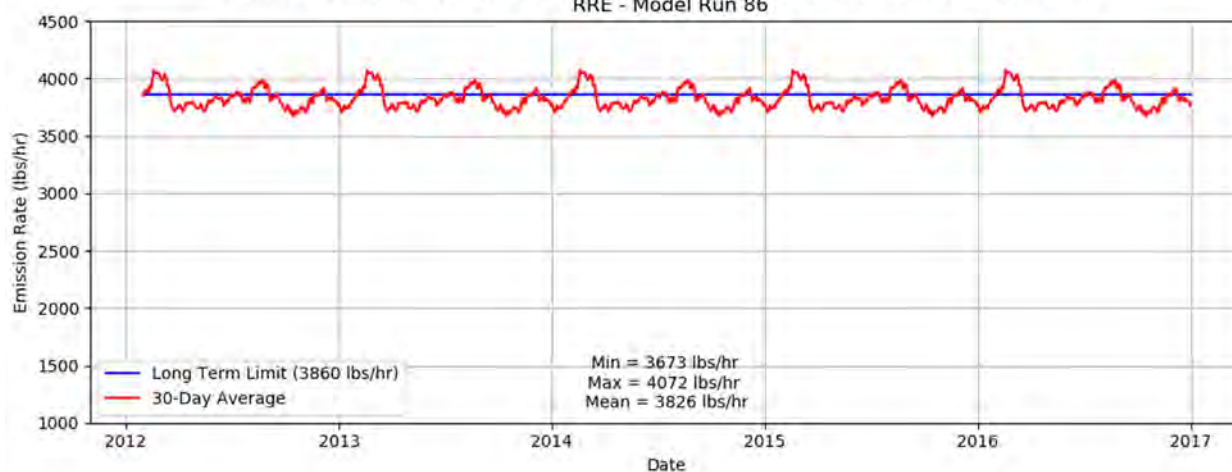




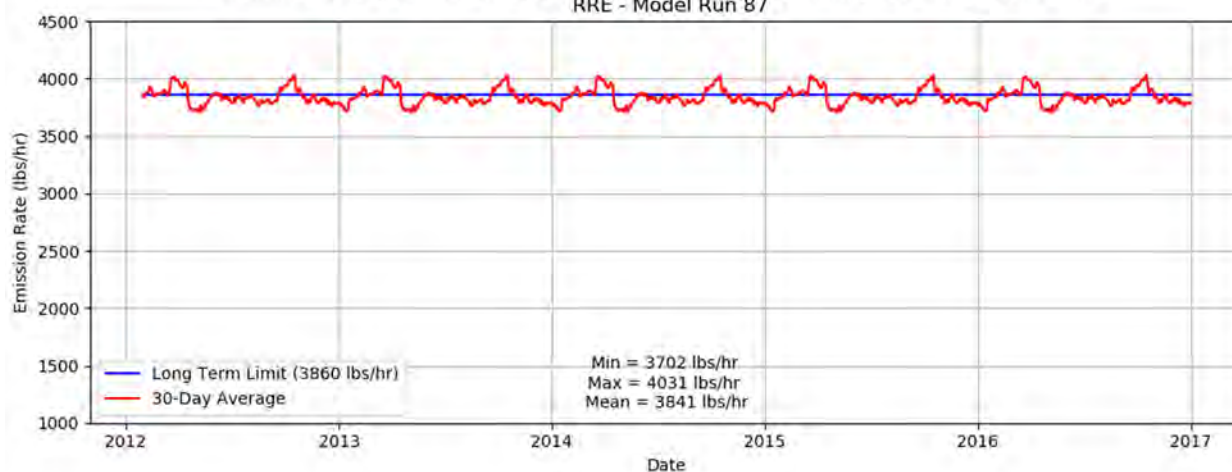
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 85



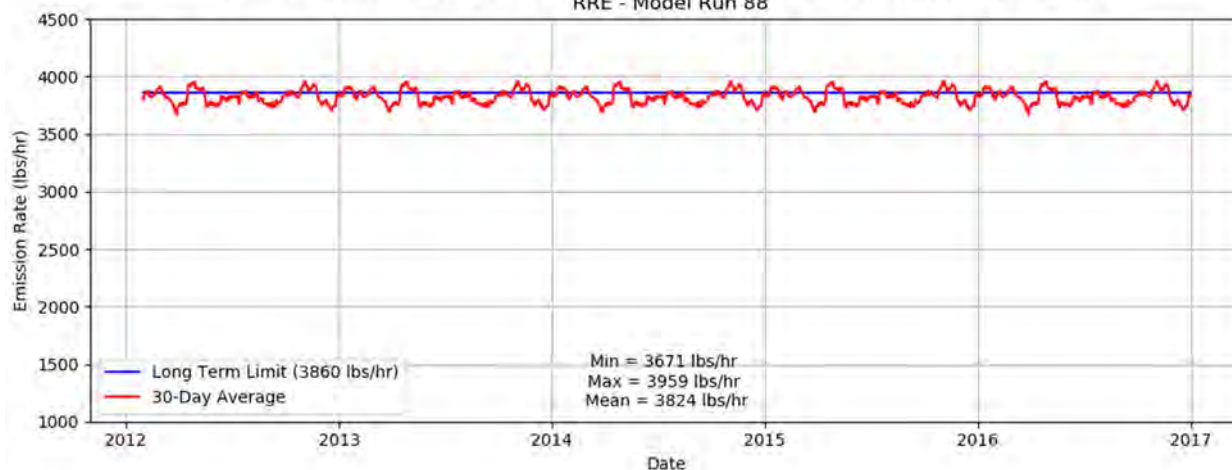
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 86



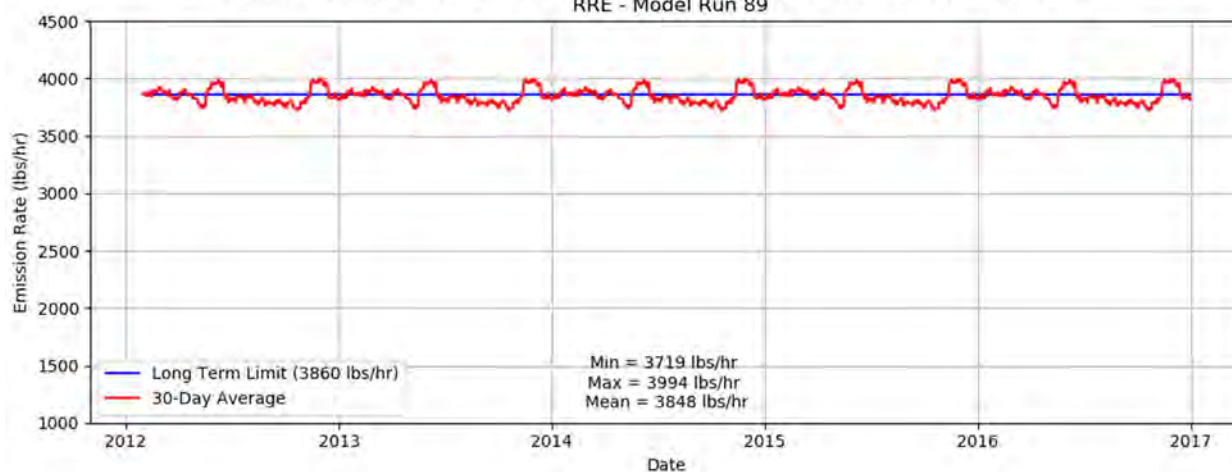
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 87



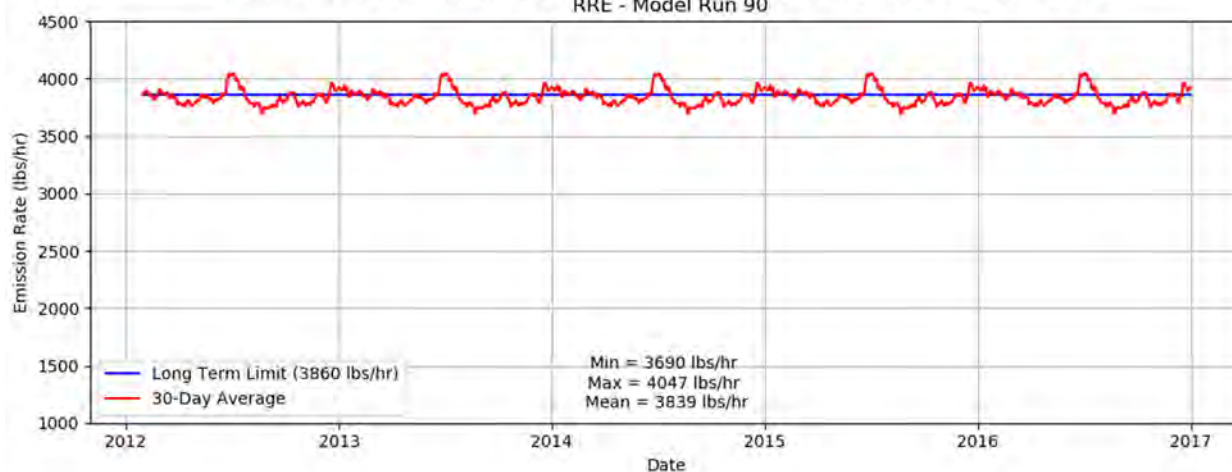
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 88



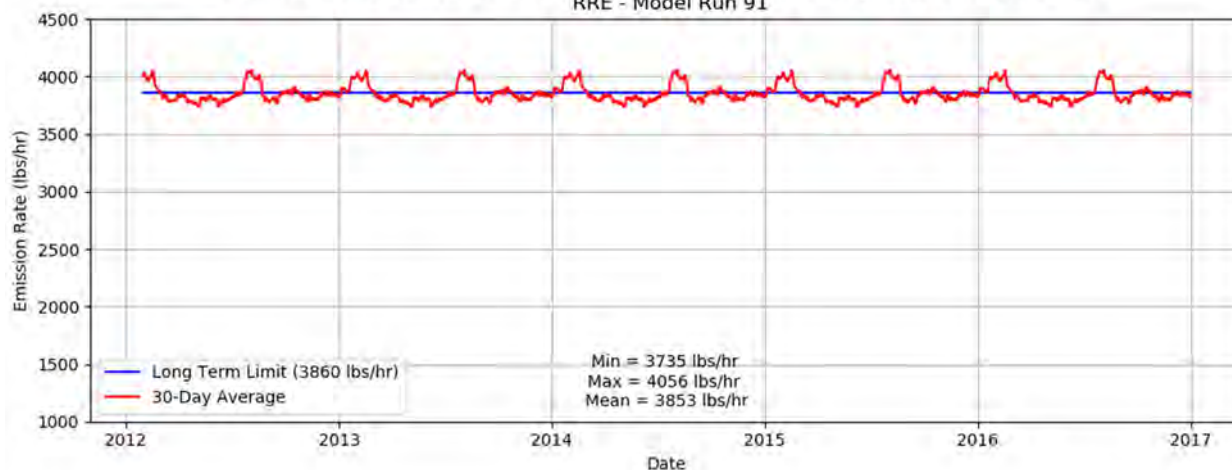
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 89



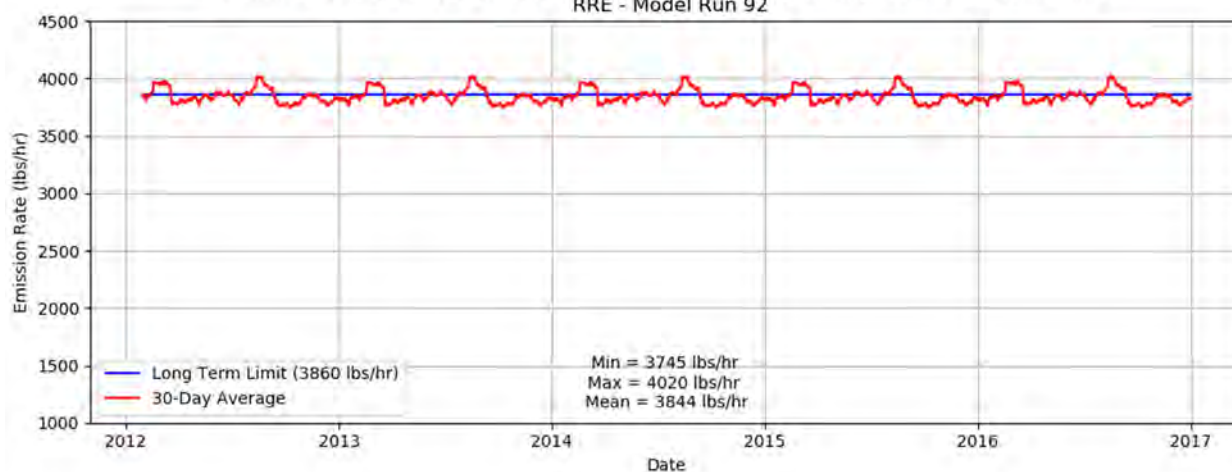
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 90



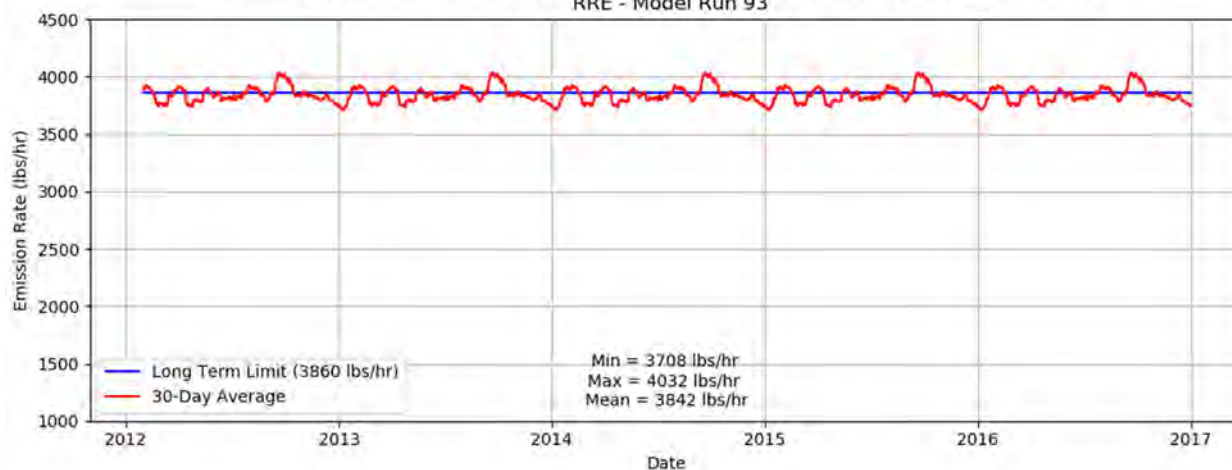
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 91



Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 92

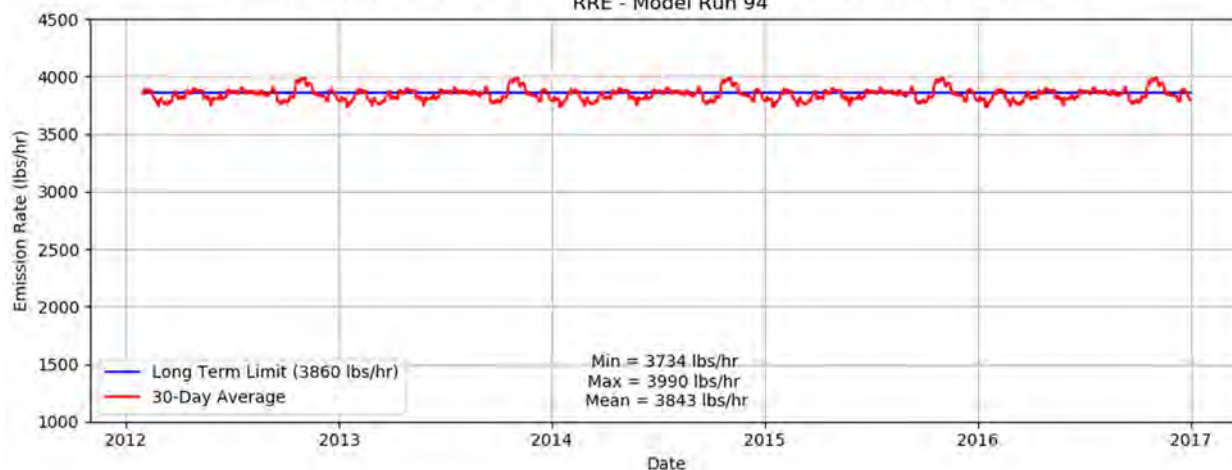


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 93

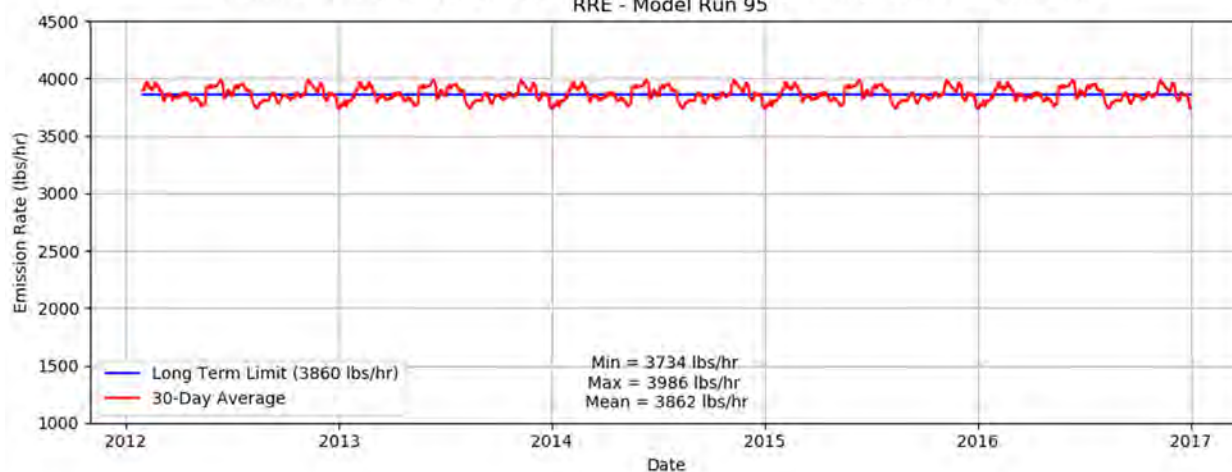




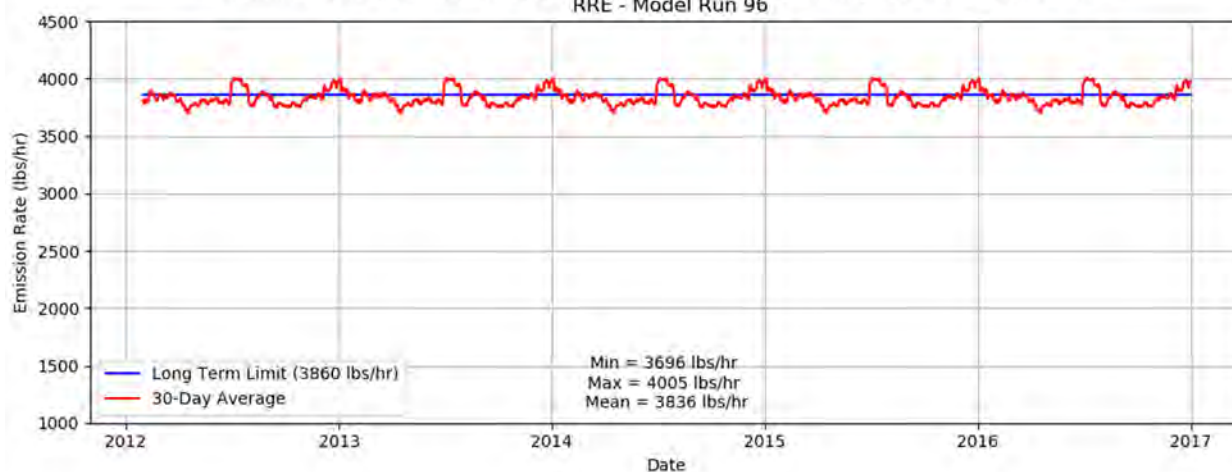
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 94



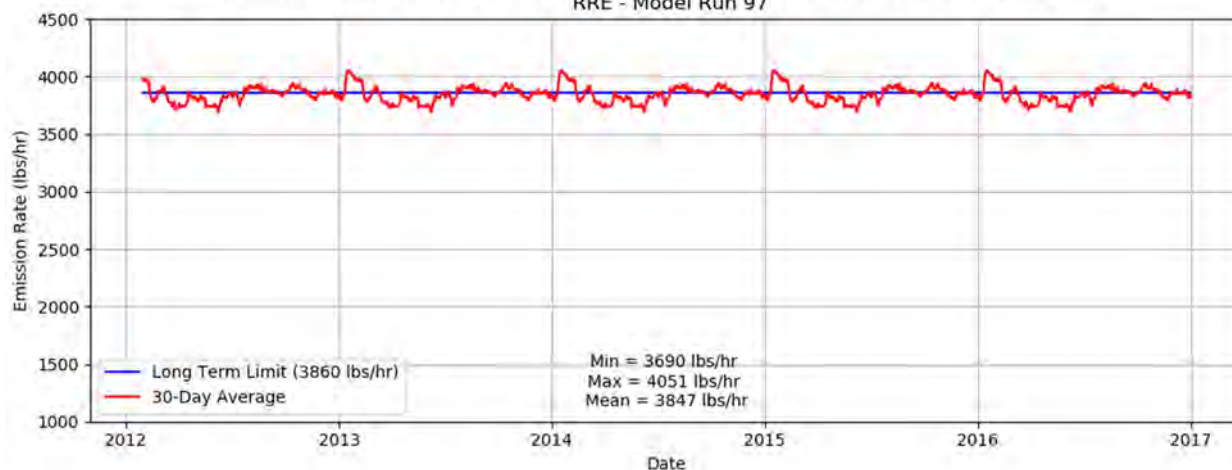
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 95



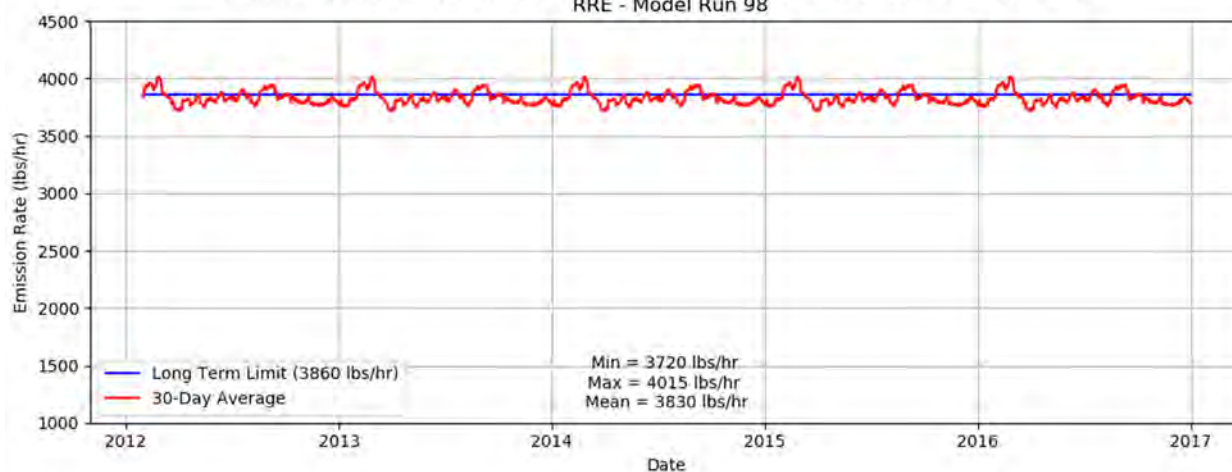
Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 96



Case1:  
Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 97

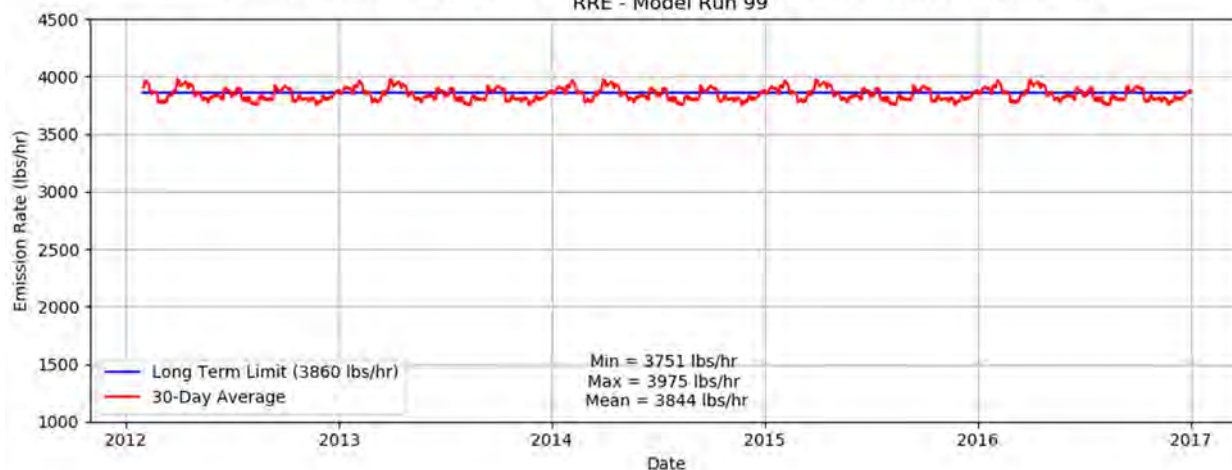


Case1:  
Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 98

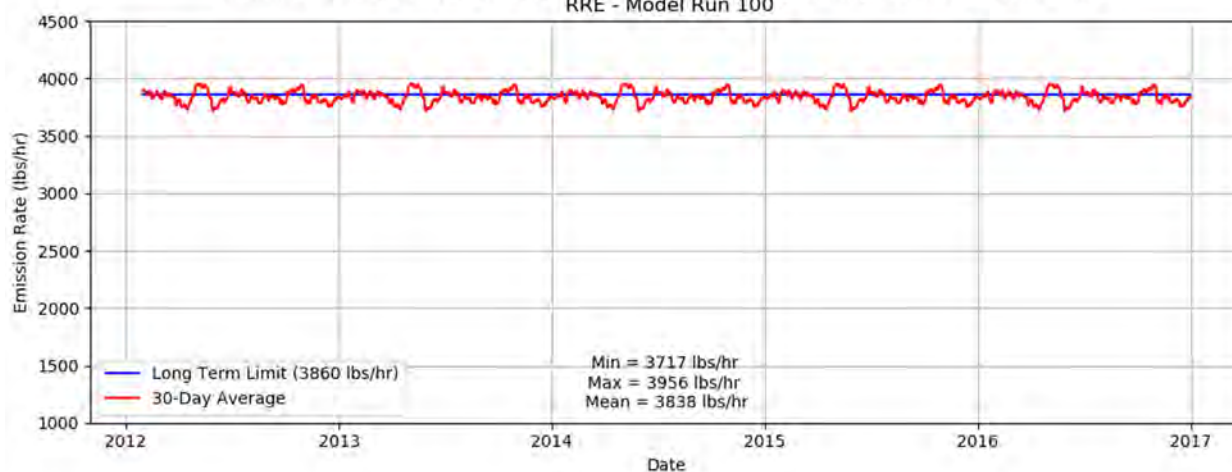




Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 99

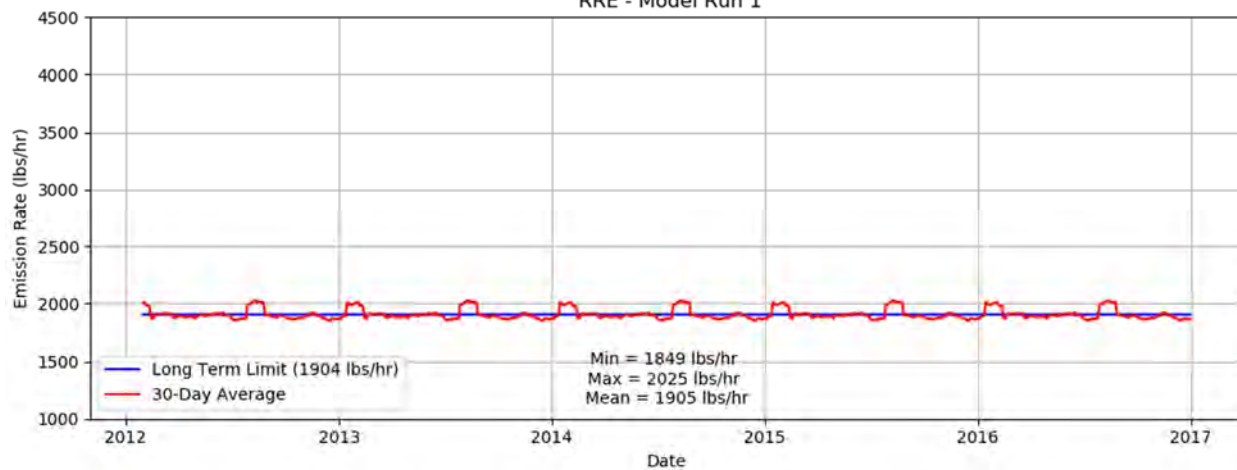


Case1:  
 Brandon Shores Merged Stack & Wagner Unit 3, Running 30-Day Average Emission Rate  
 RRE - Model Run 100

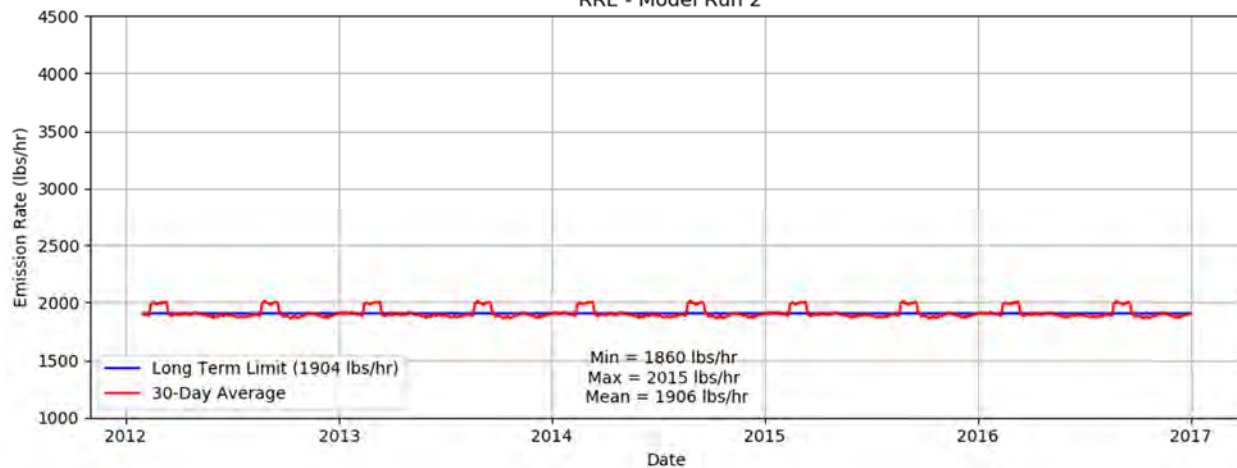


## Wagner Generating Station, Unit 3 – Case 1

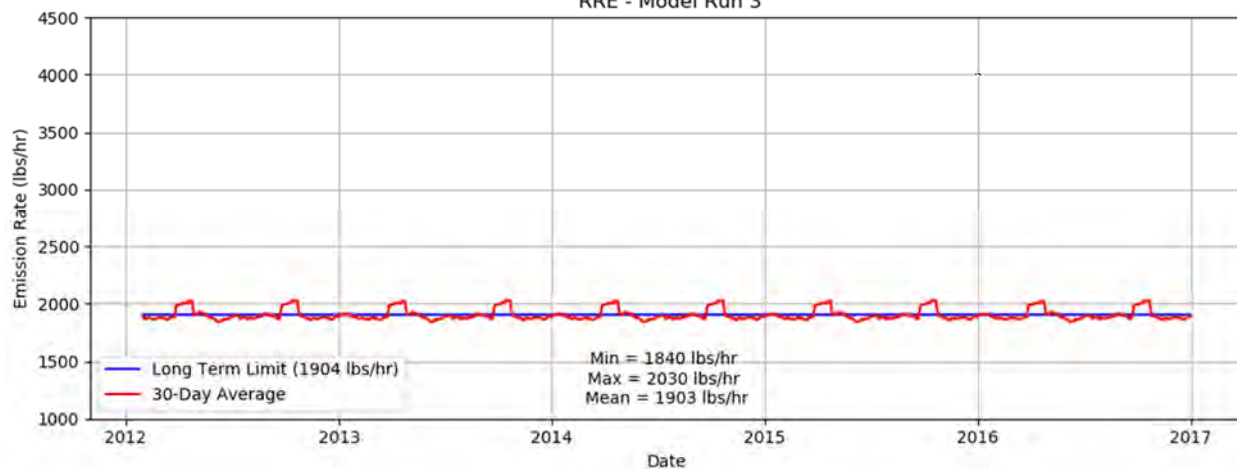
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 1



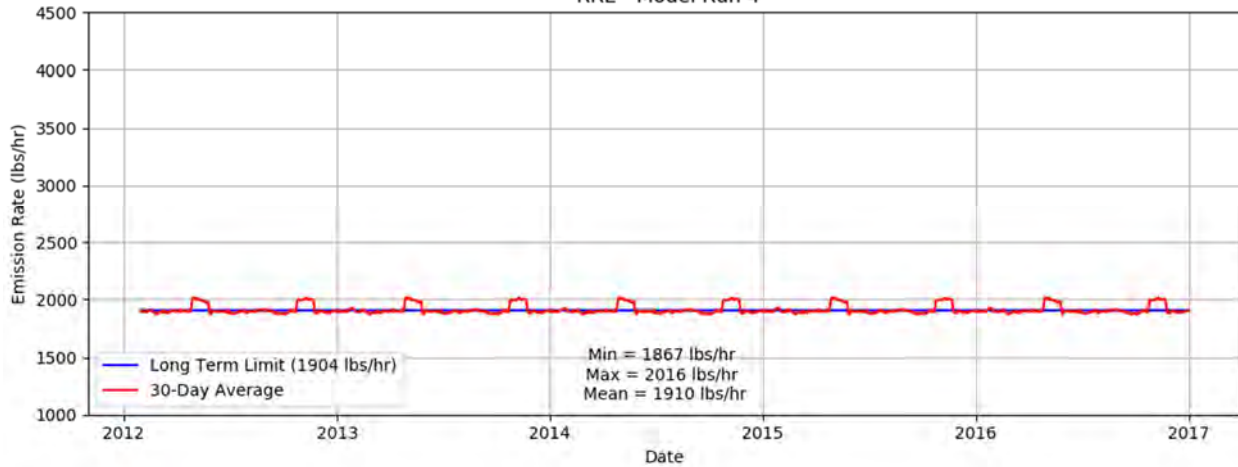
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 2



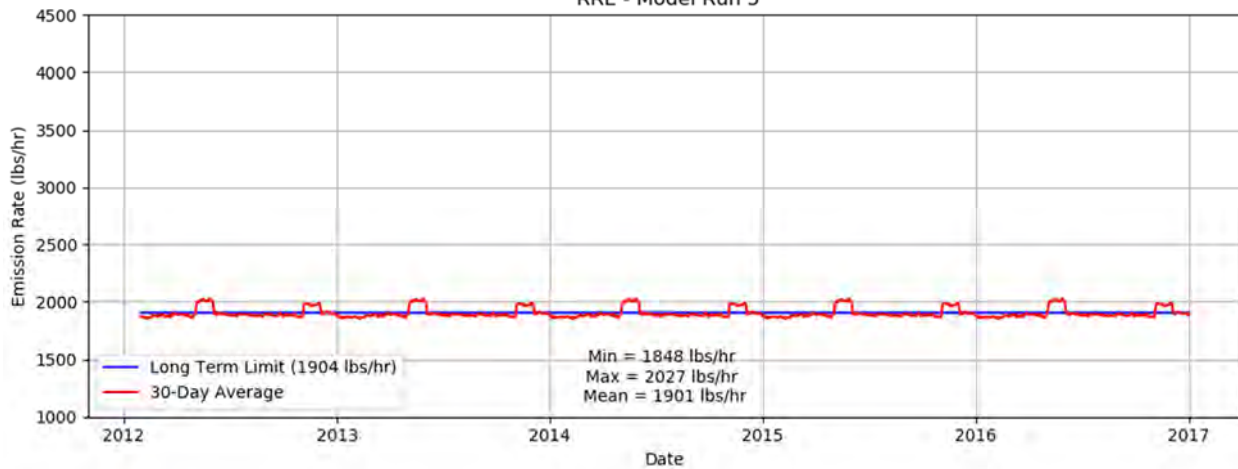
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 3



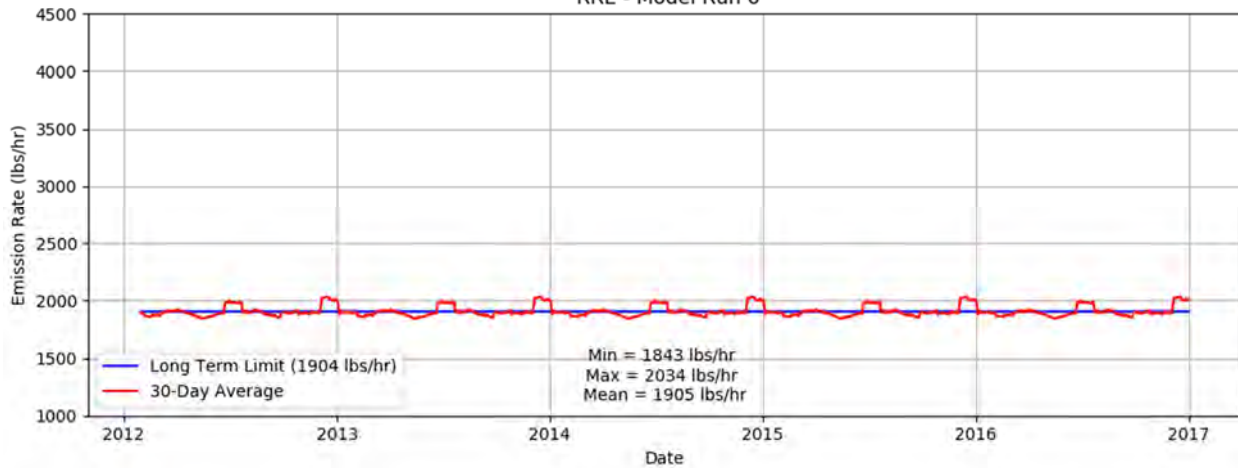
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 4



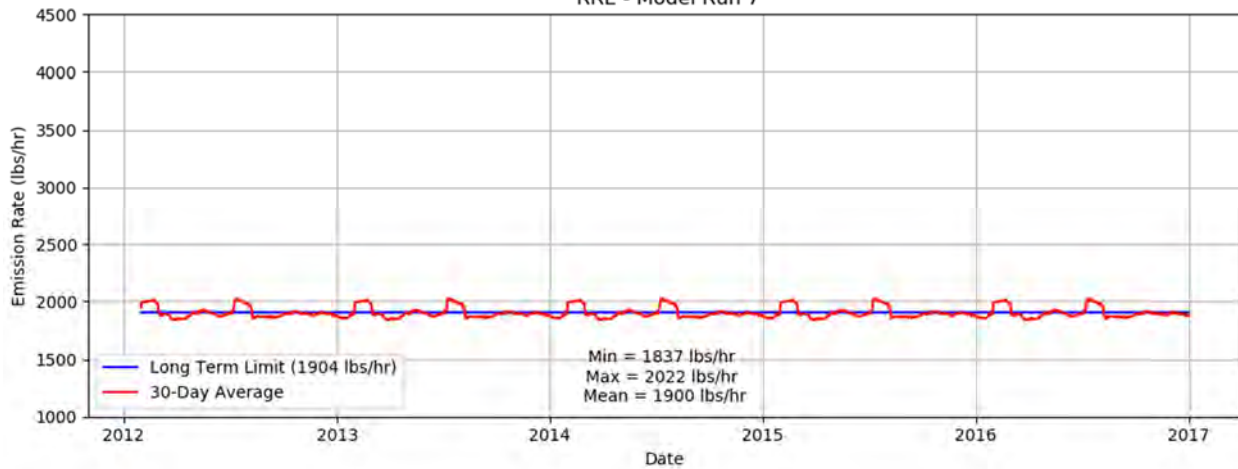
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 5



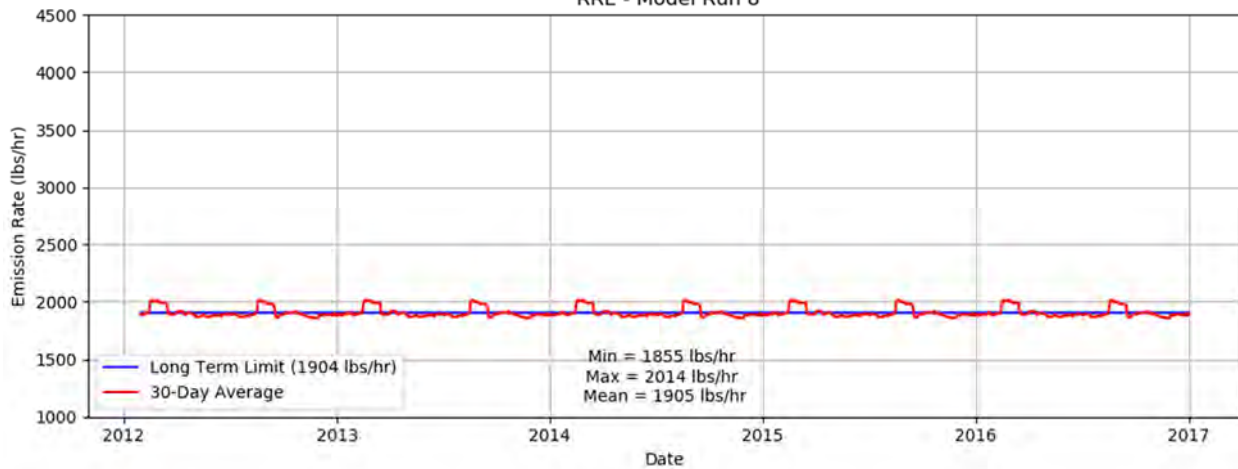
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 6



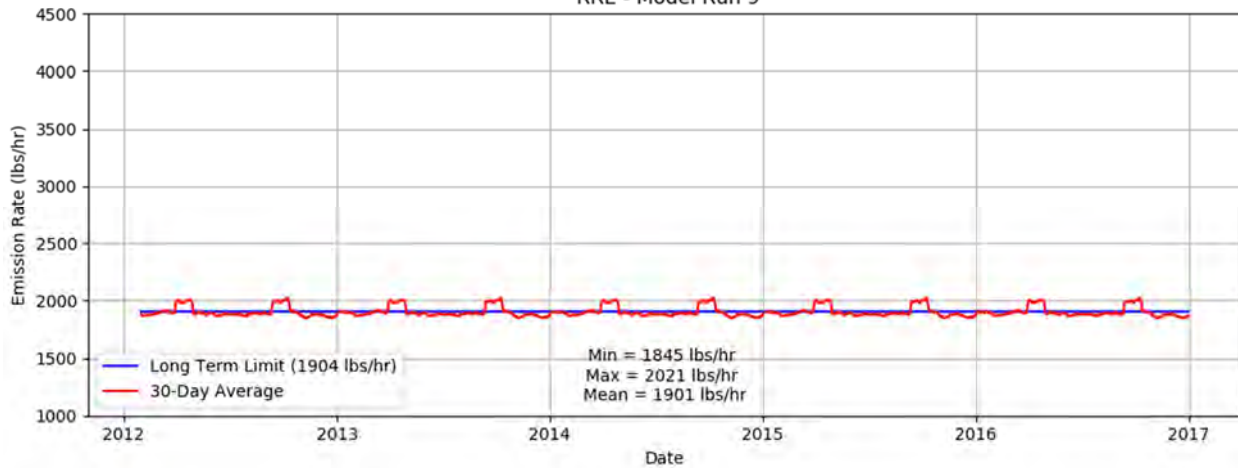
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 7



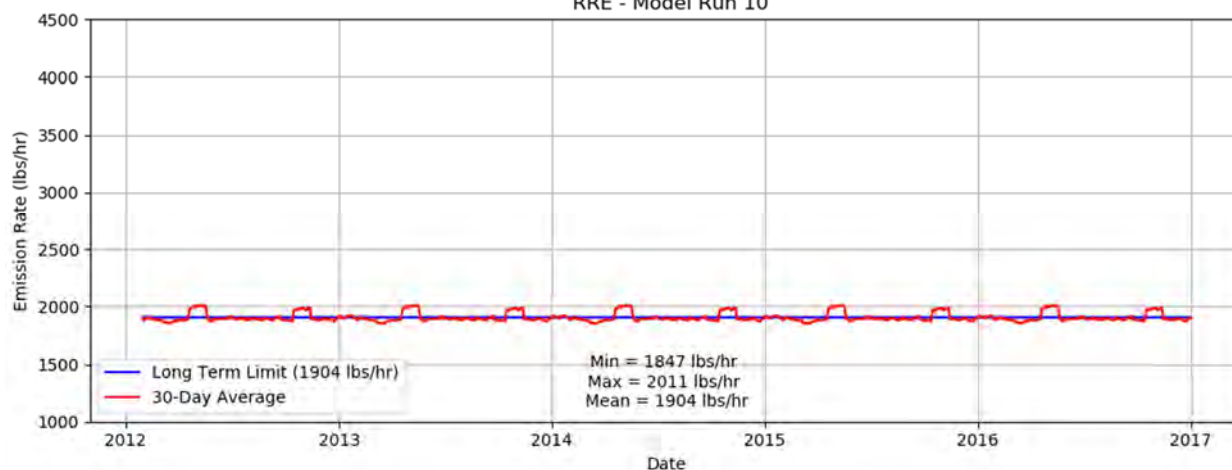
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 8



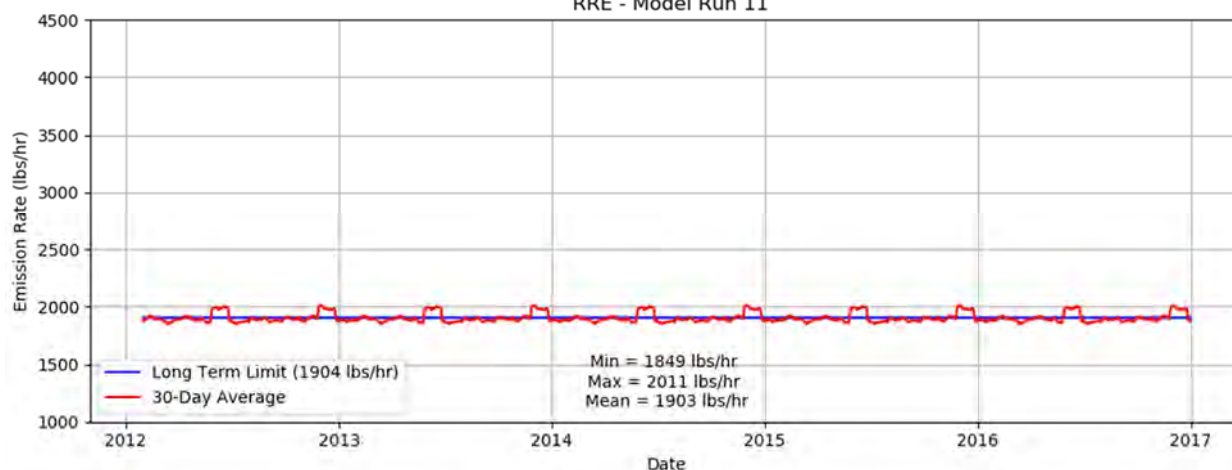
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 9



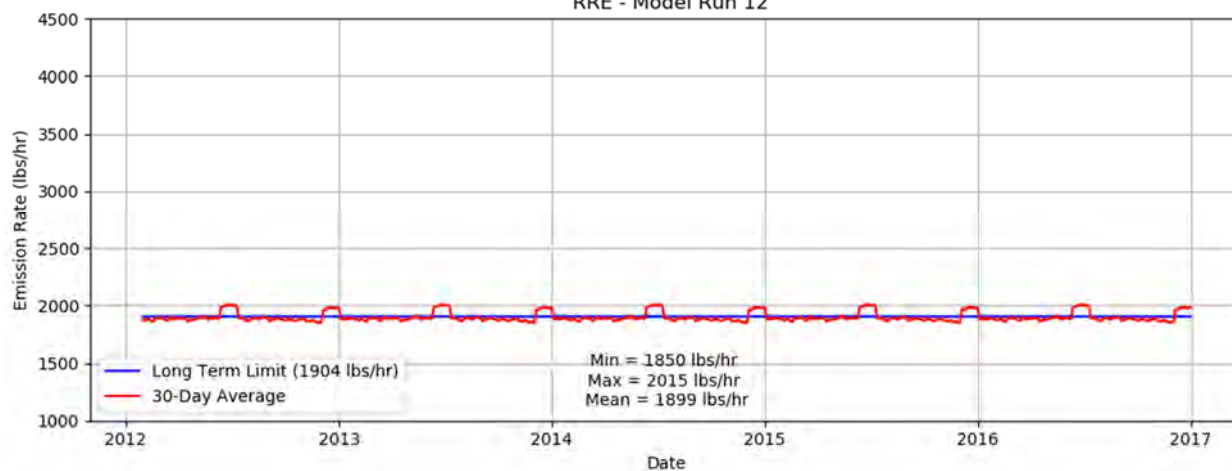
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 10



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 11

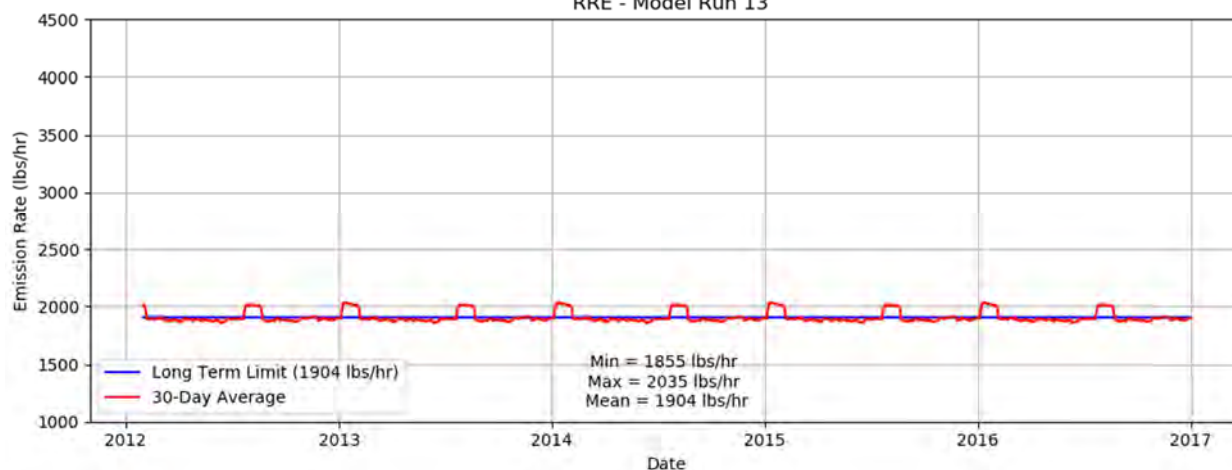


Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 12

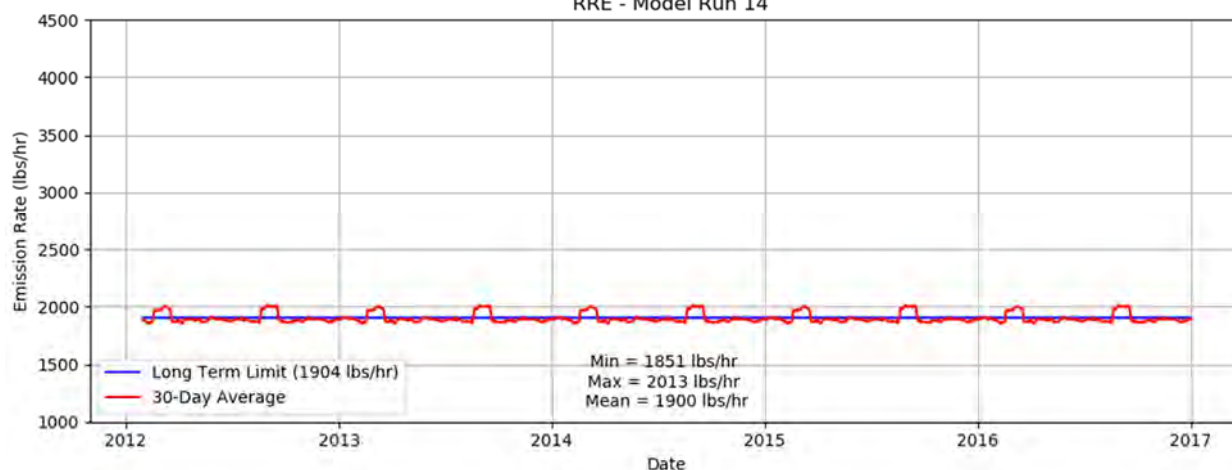




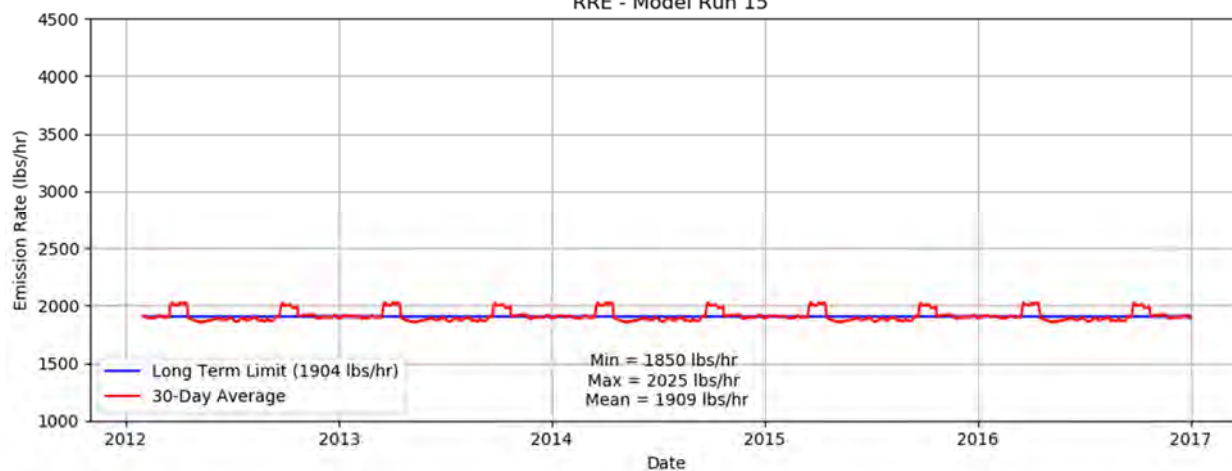
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 13



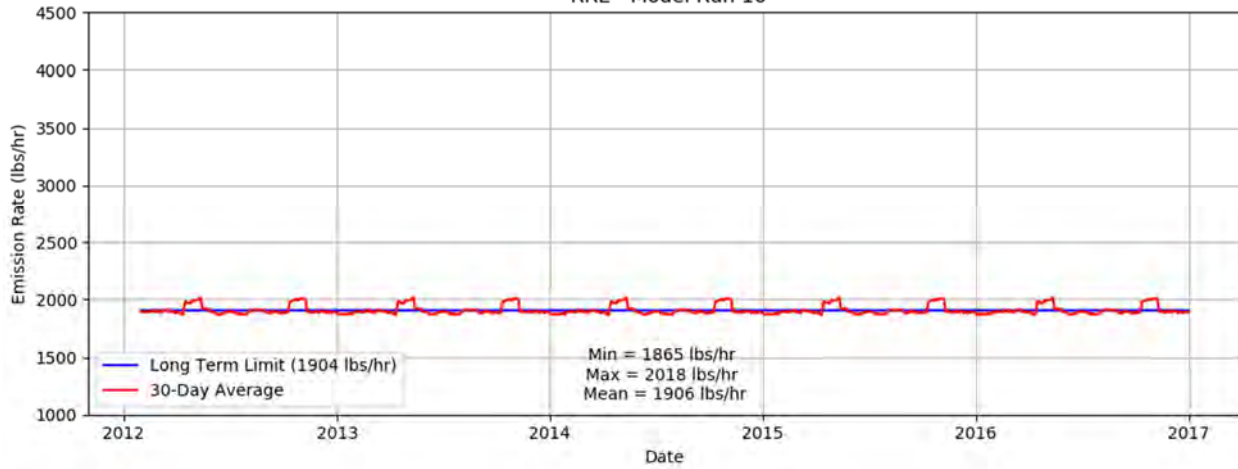
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 14



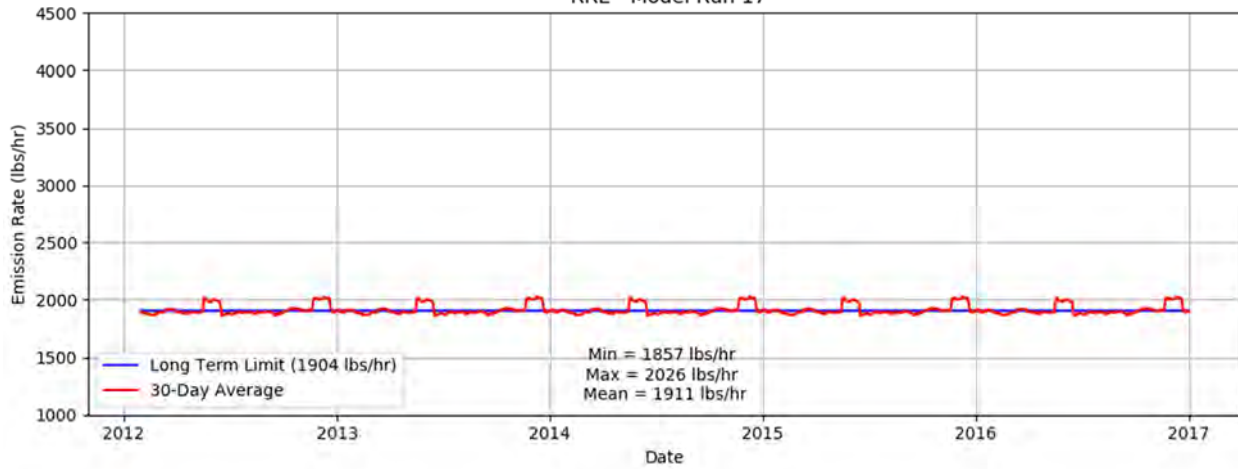
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 15



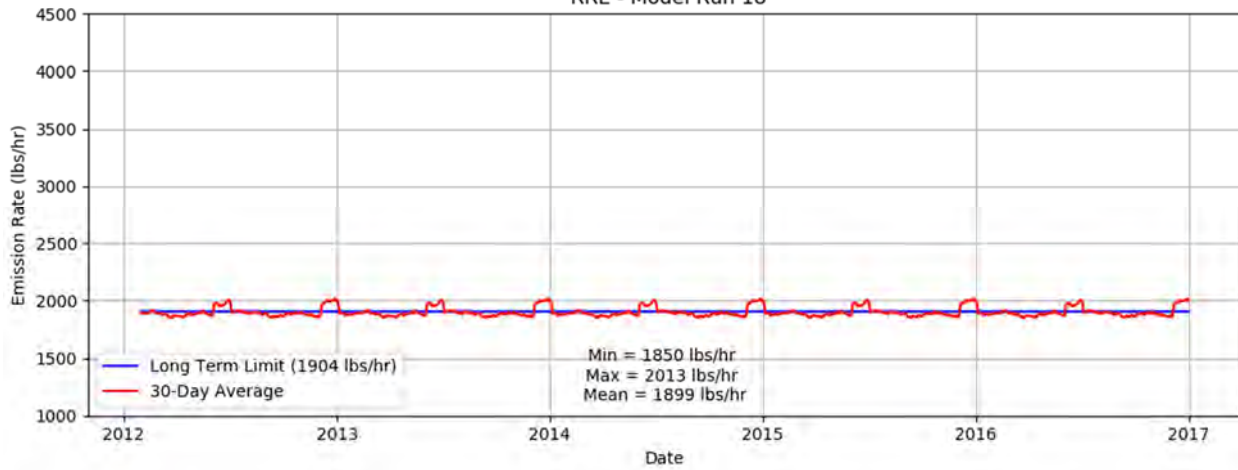
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 16



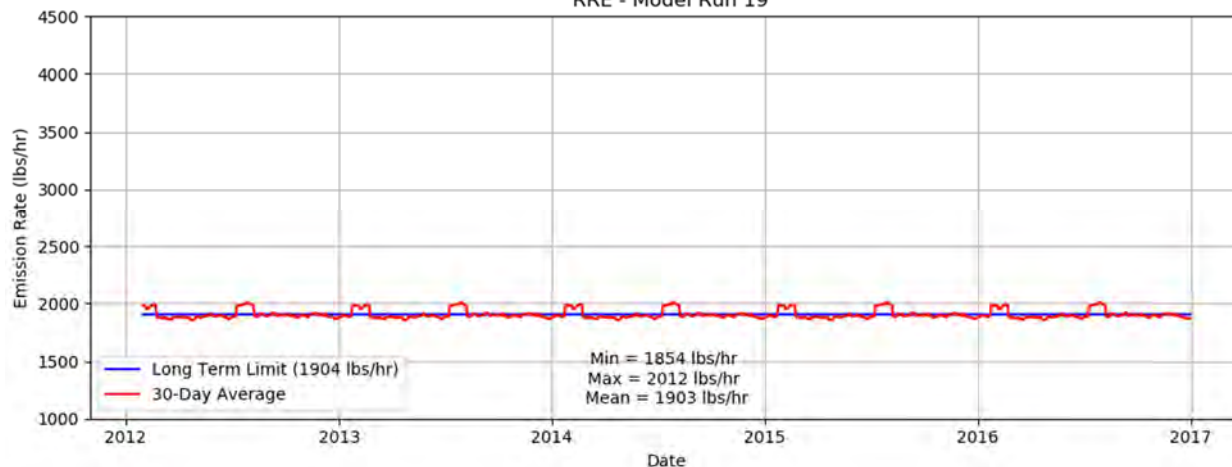
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 17



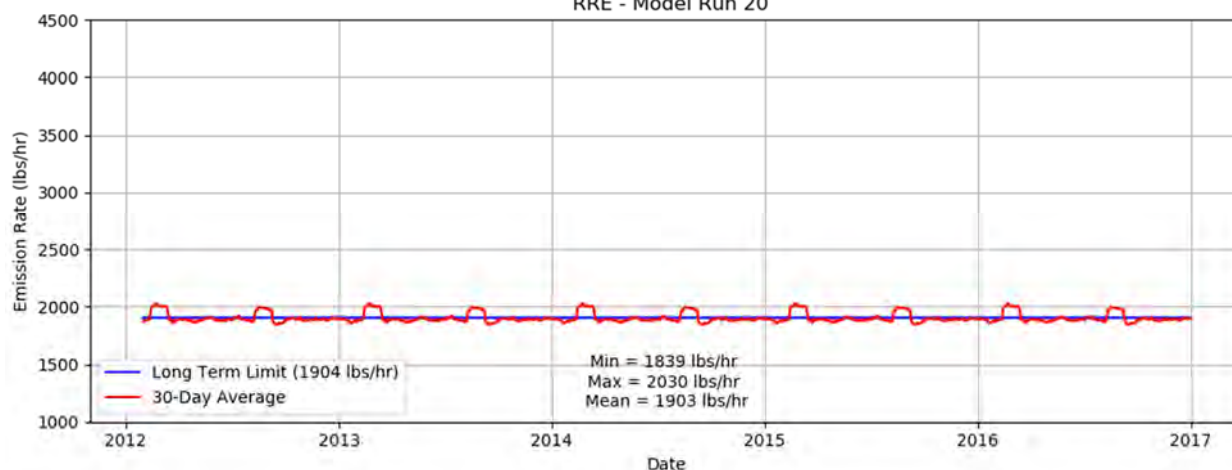
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 18



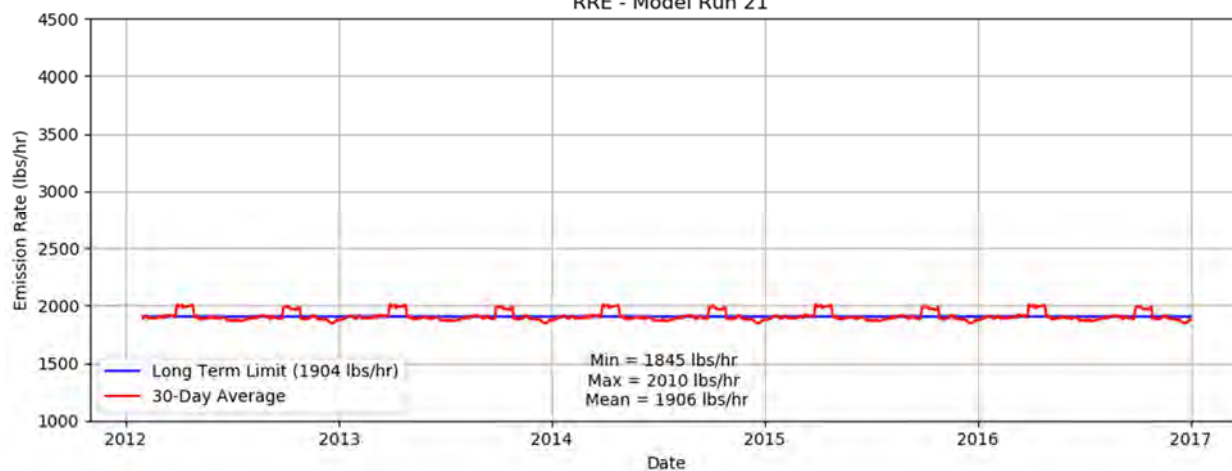
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 19



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 20

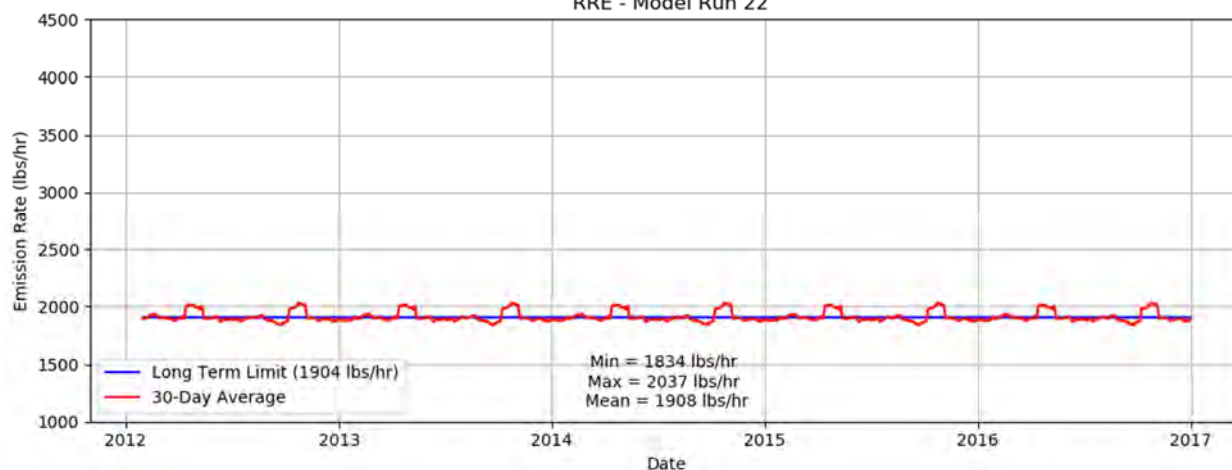


Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 21

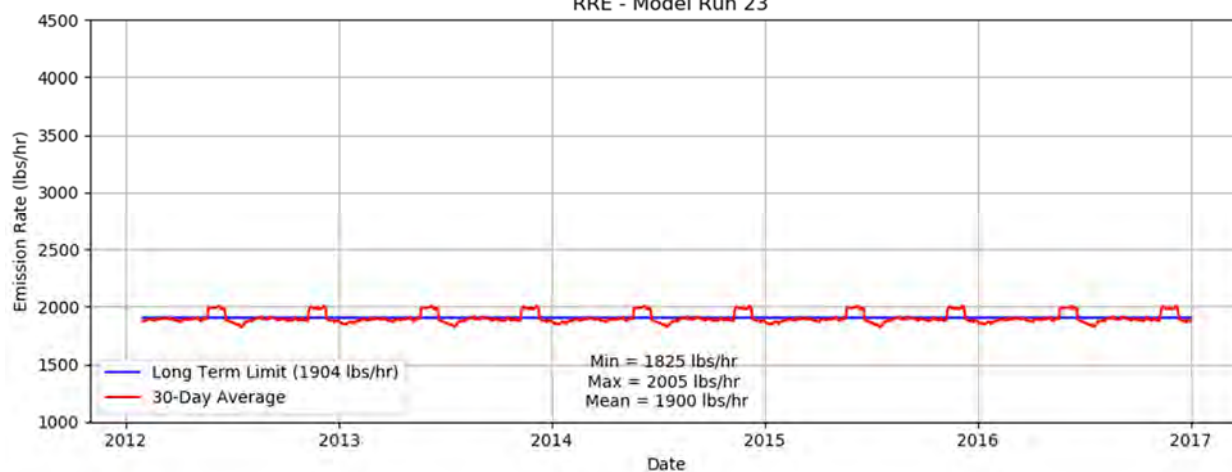




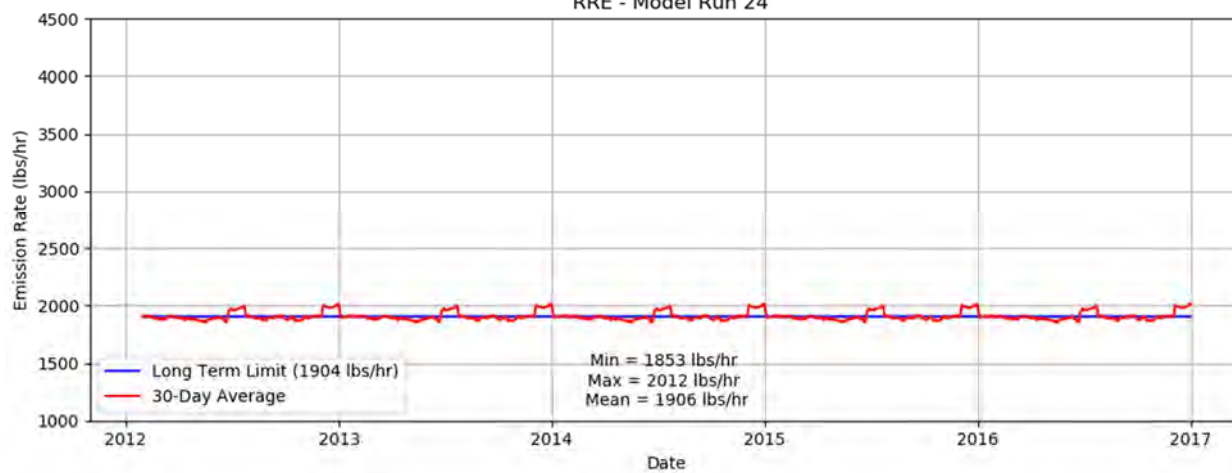
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 22



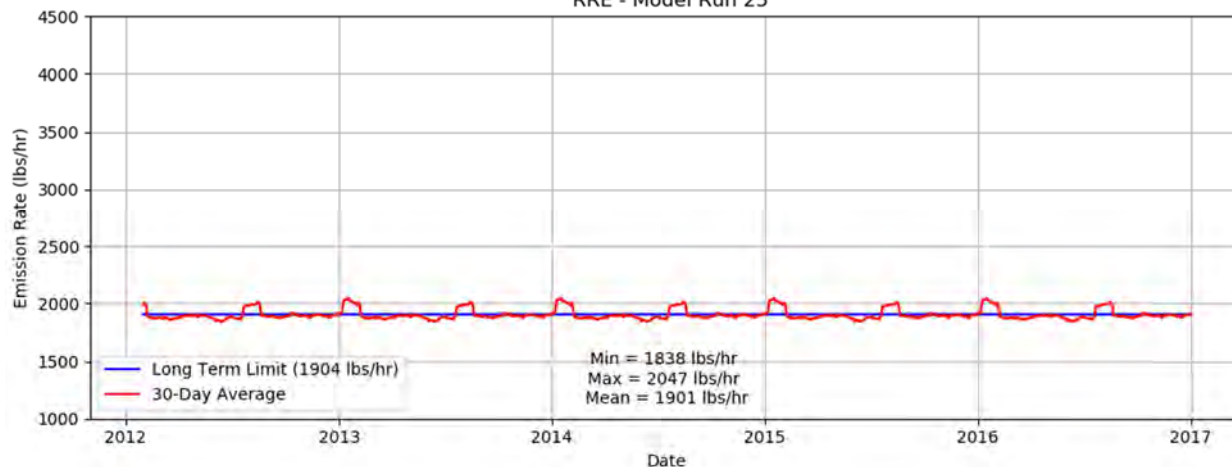
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 23



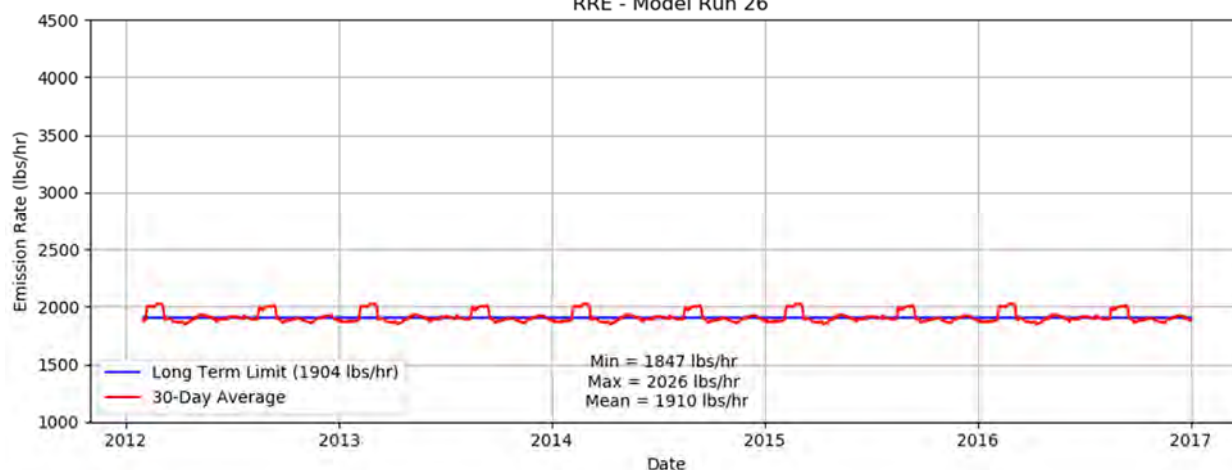
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 24



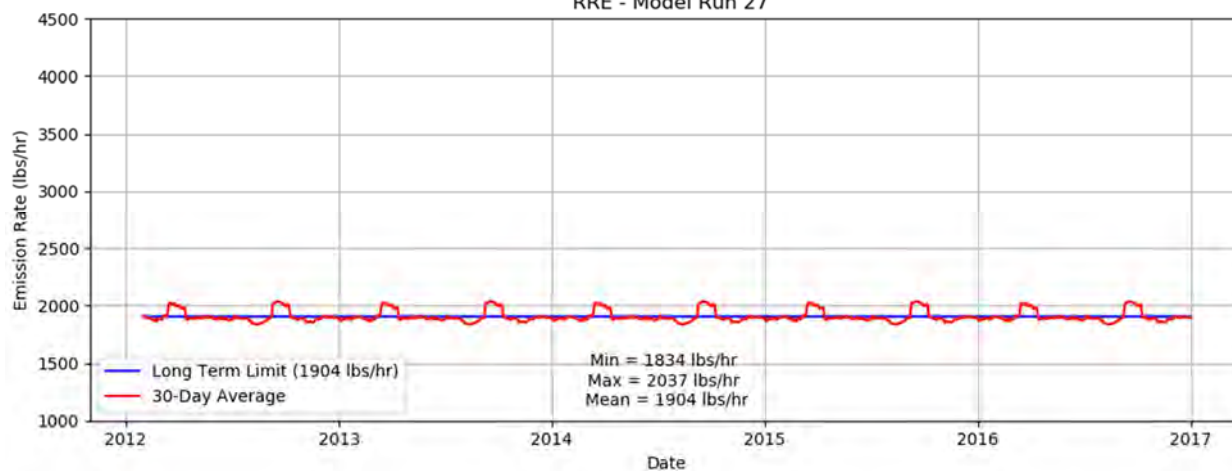
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 25



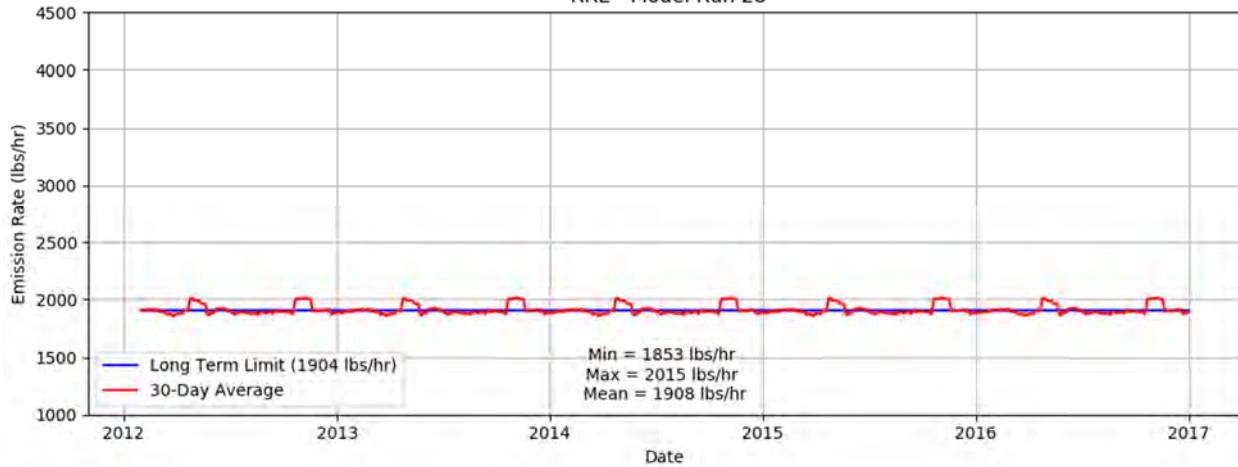
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 26



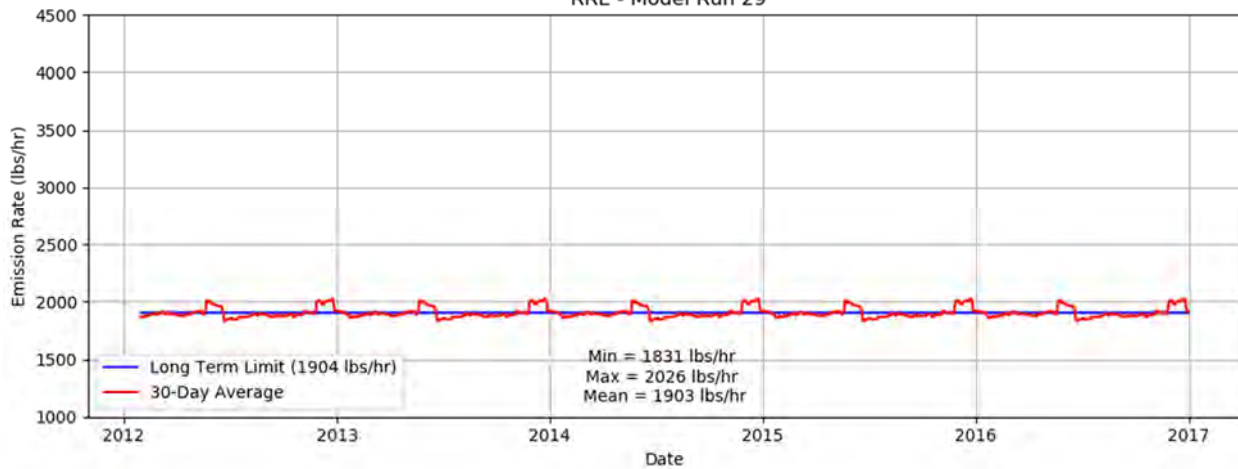
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 27



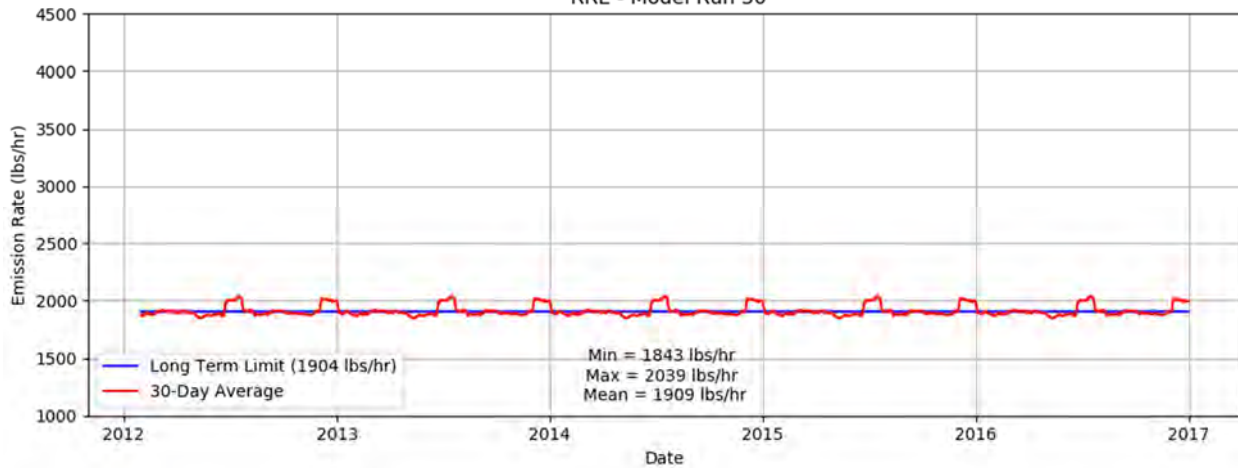
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 28



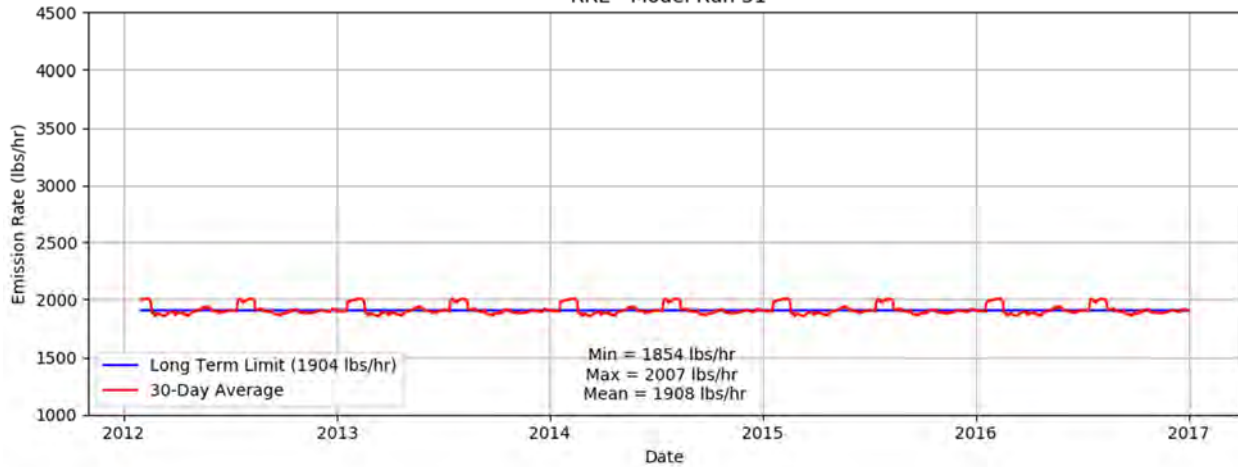
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 29



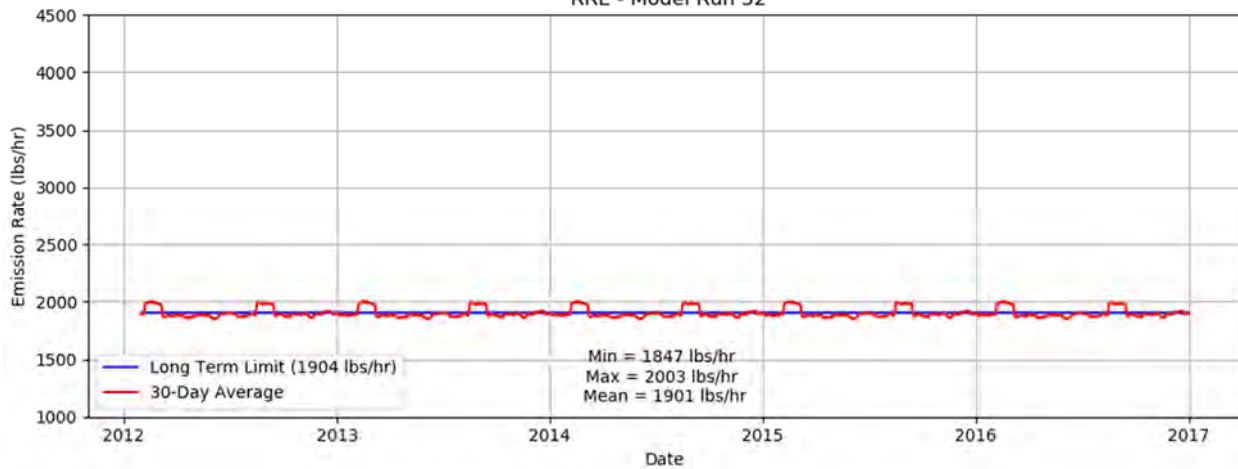
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 30



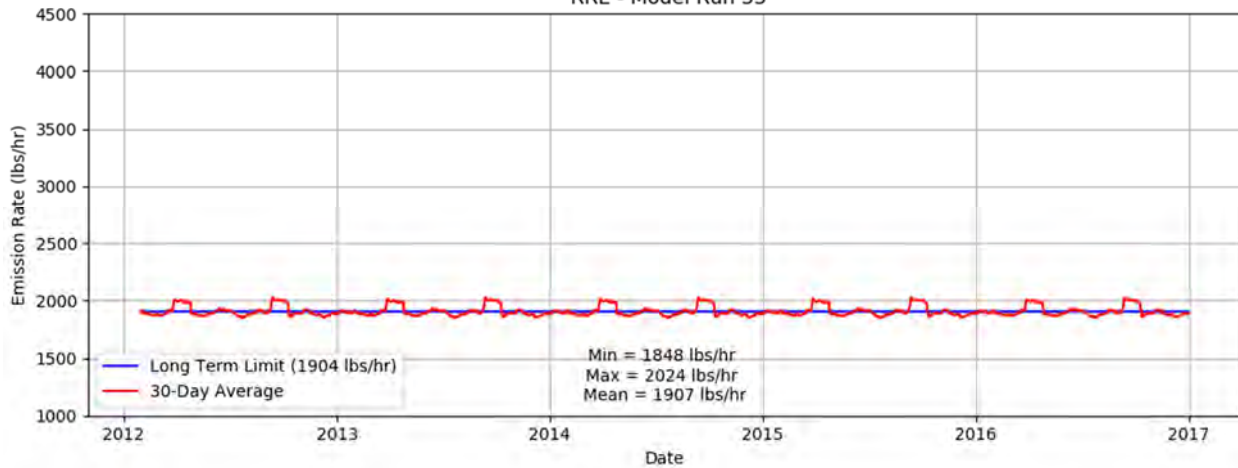
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 31



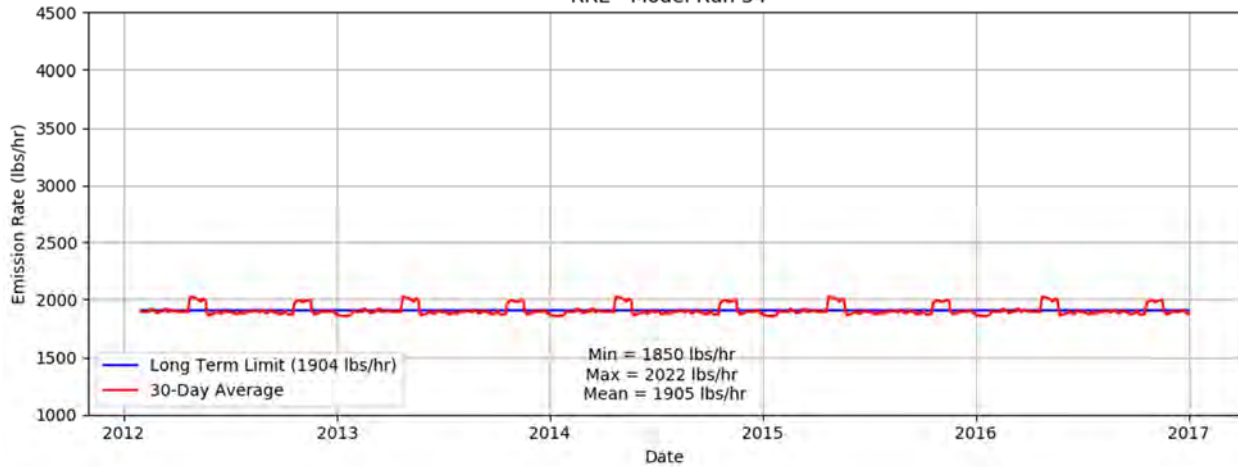
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 32



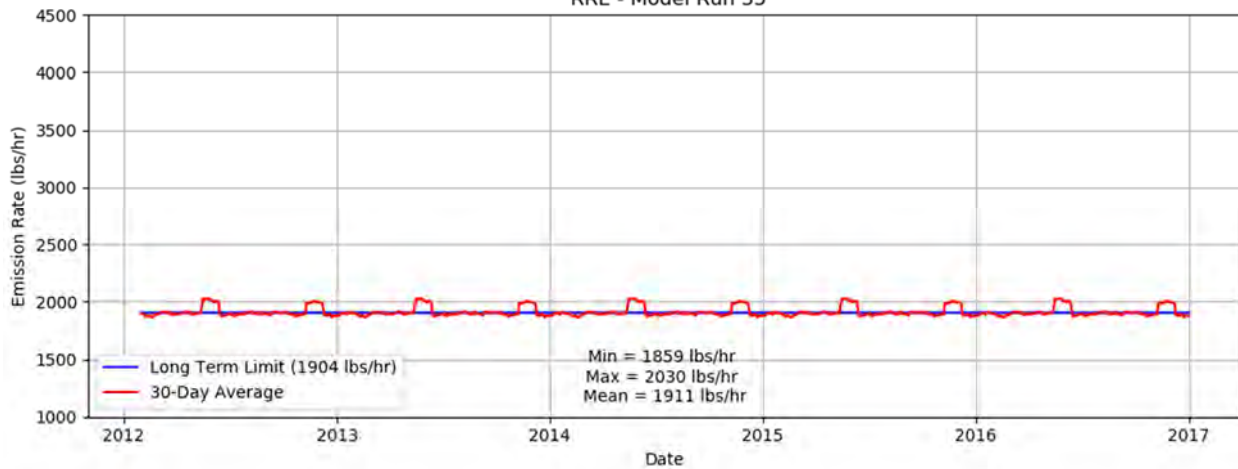
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 33



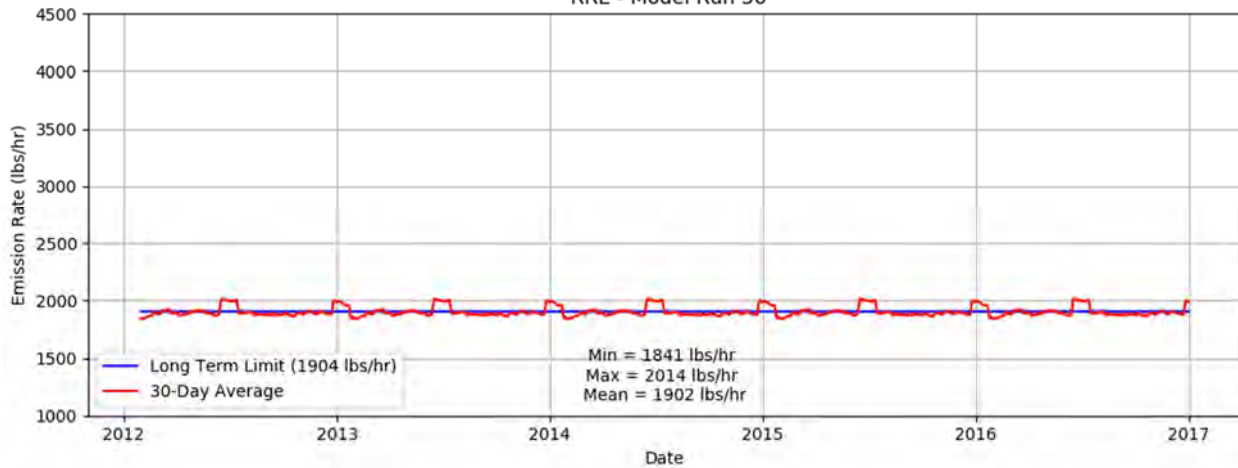
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 34



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 35

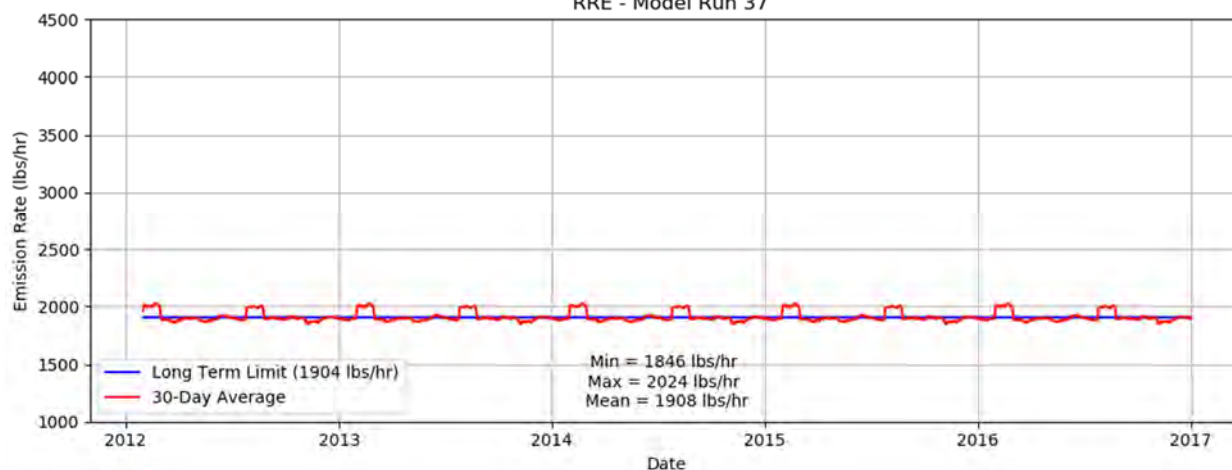


Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 36

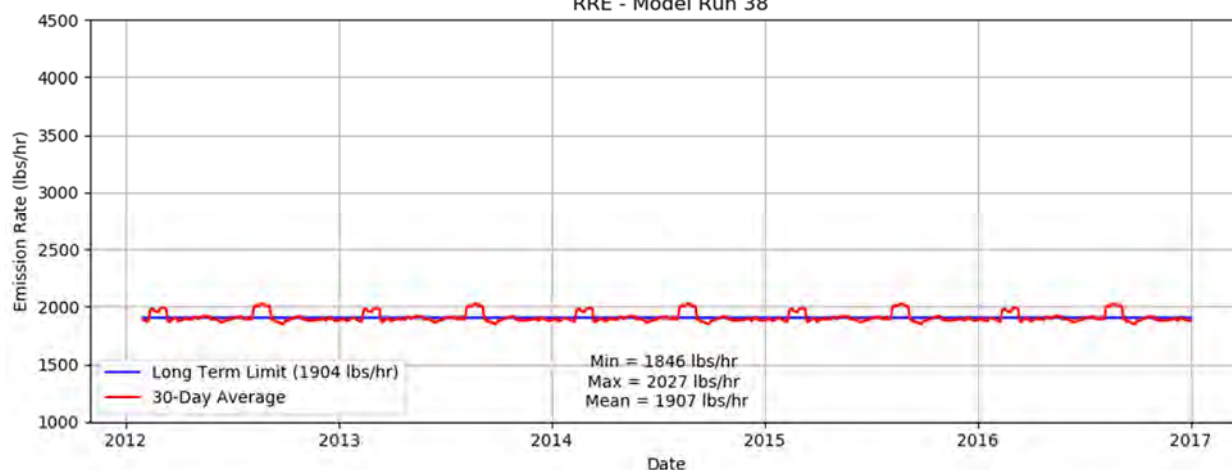




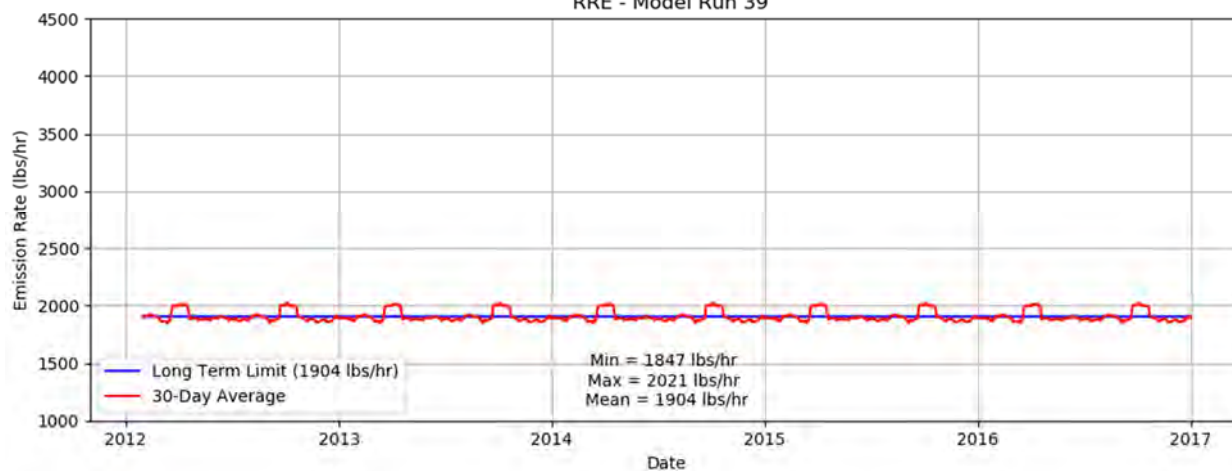
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 37



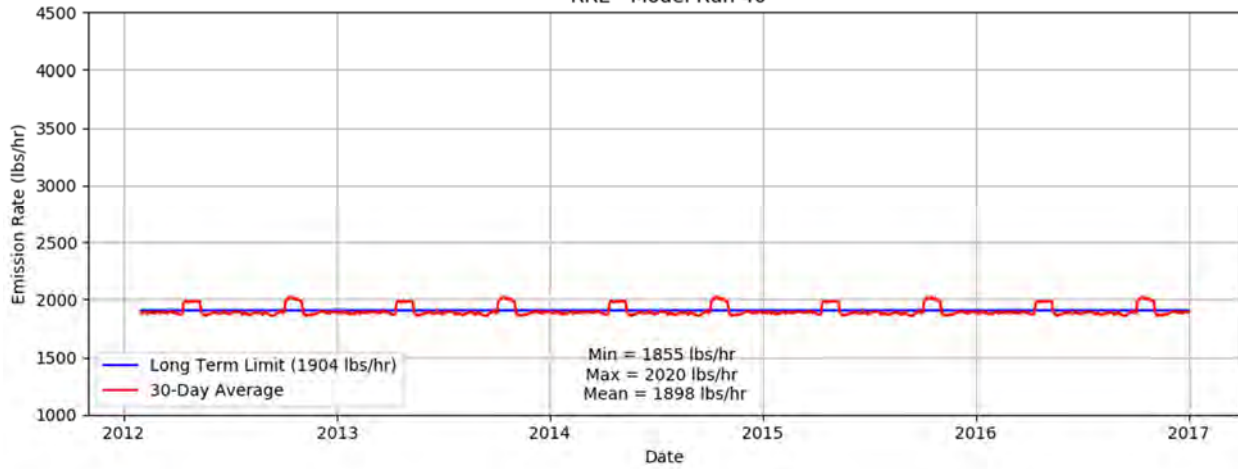
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 38



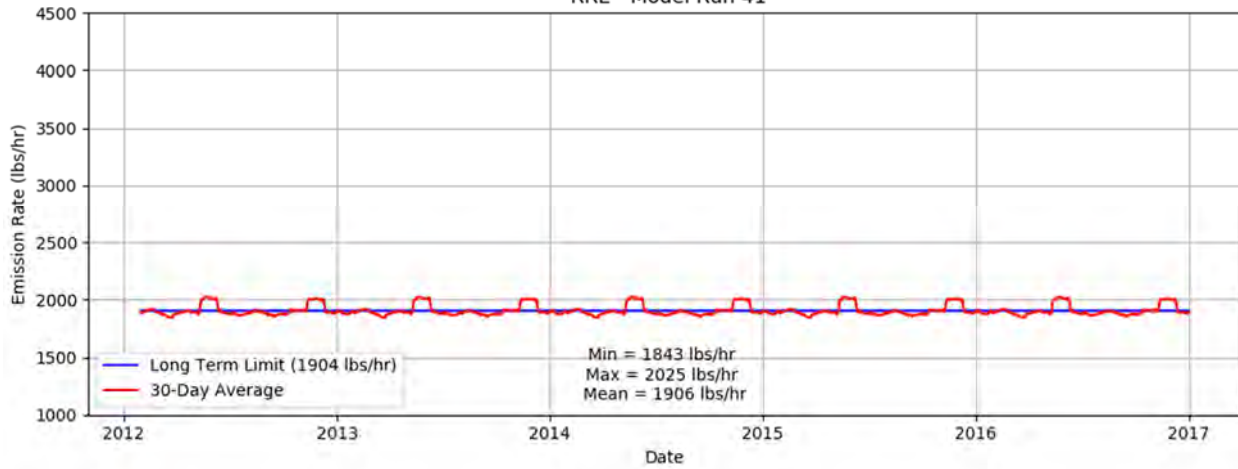
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 39



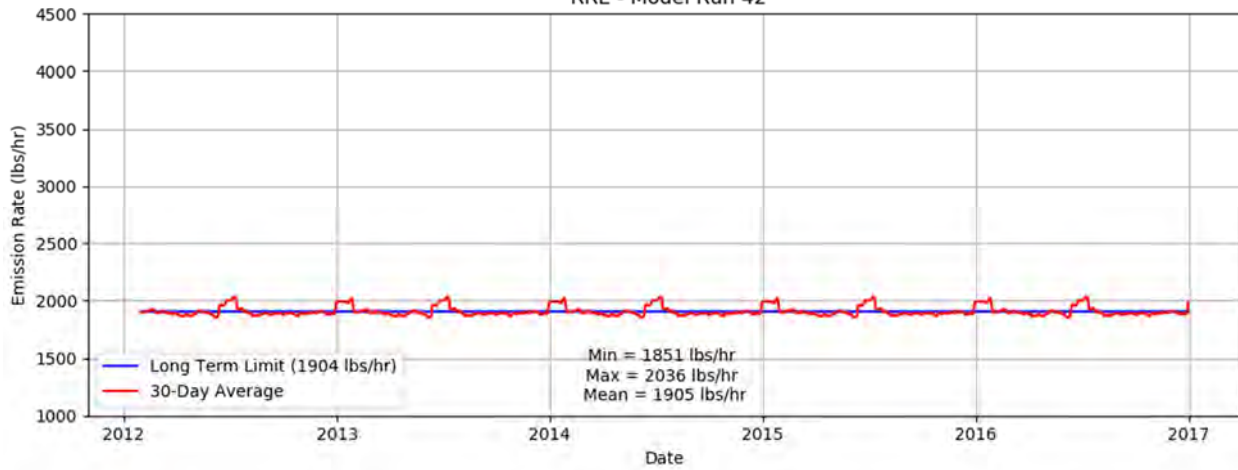
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 40



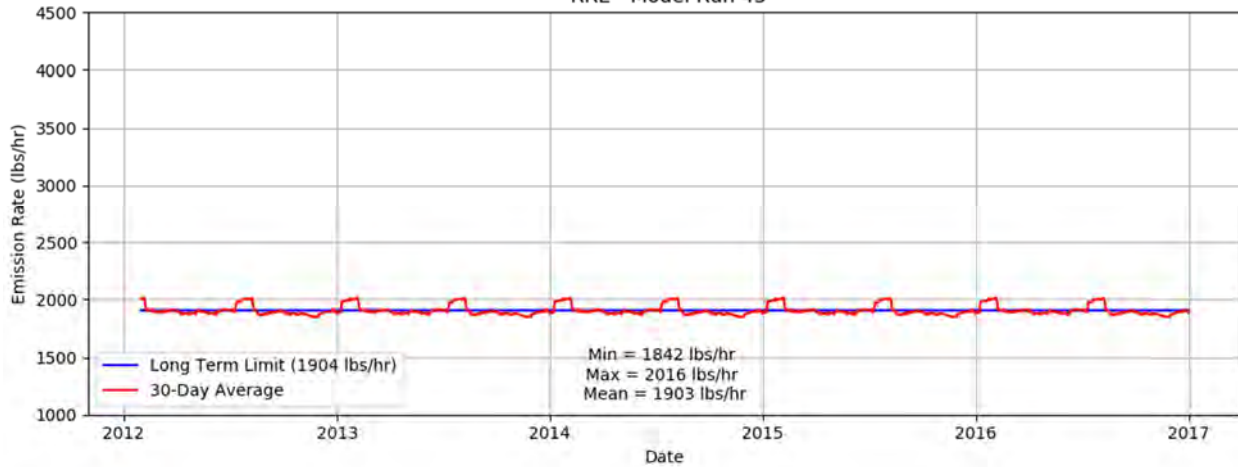
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 41



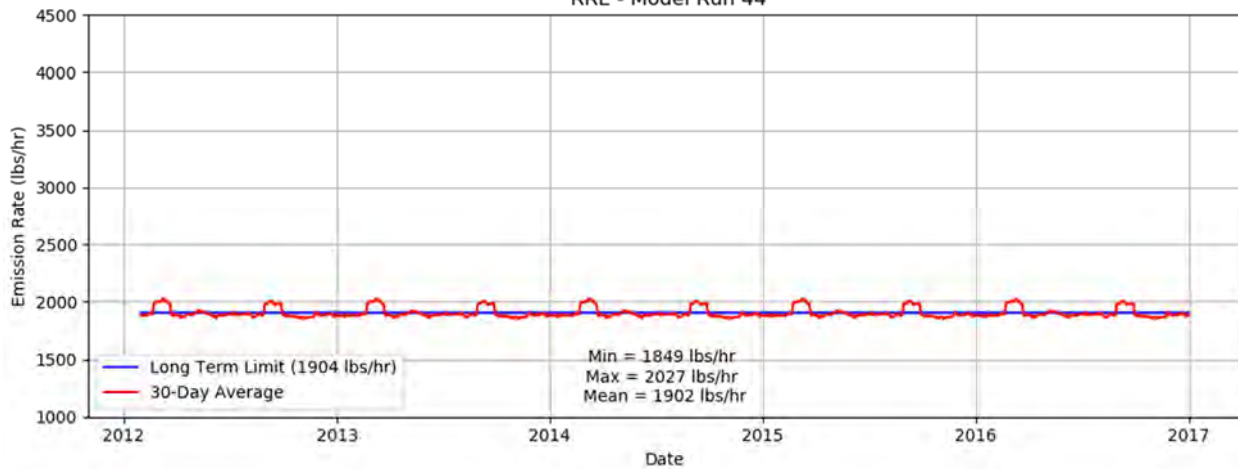
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 42



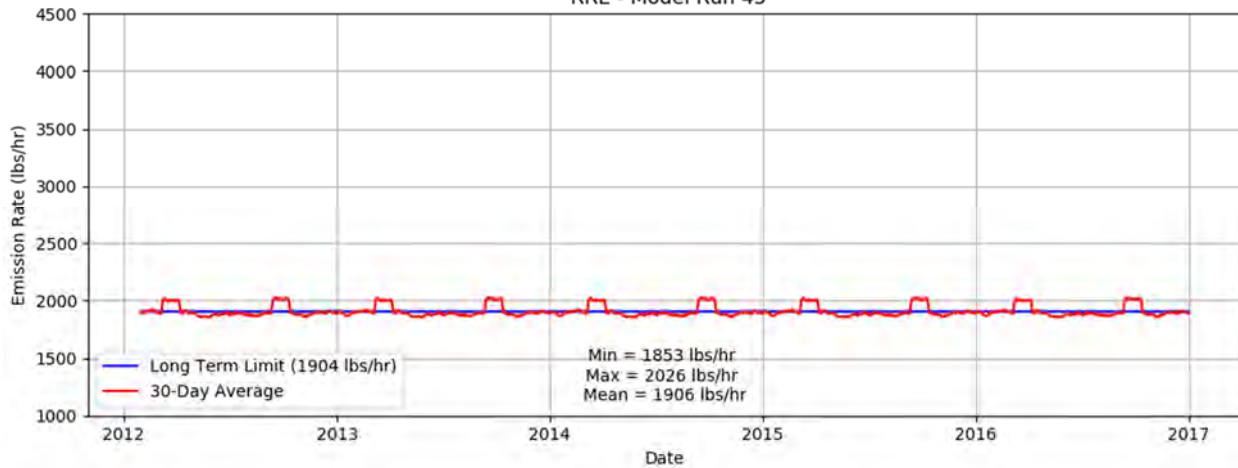
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 43



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 44

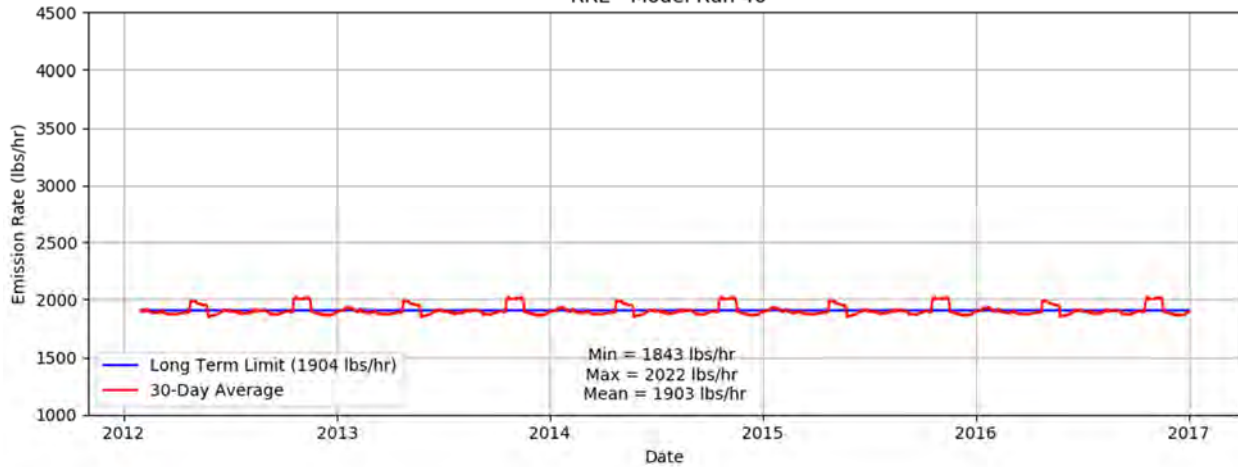


Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 45

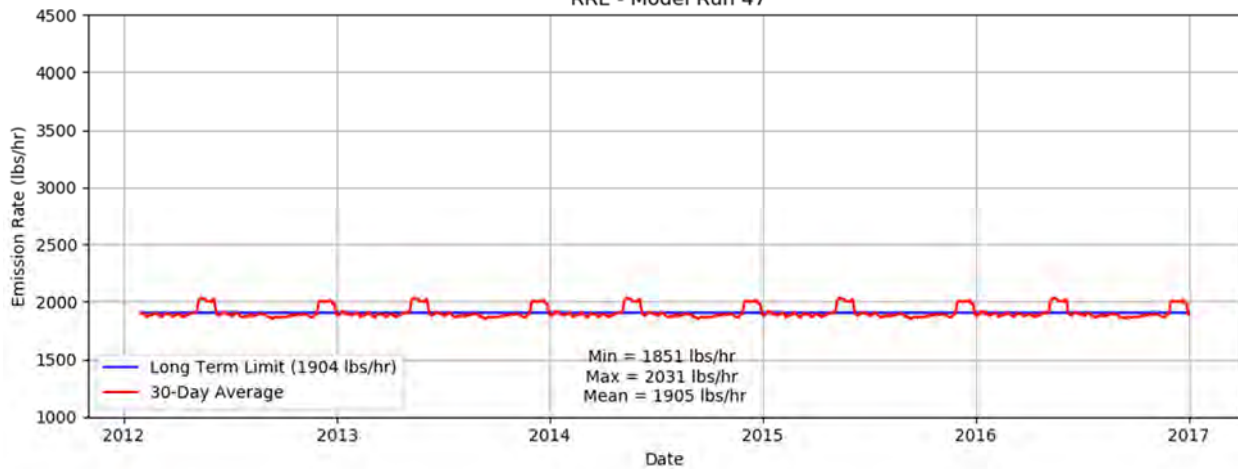




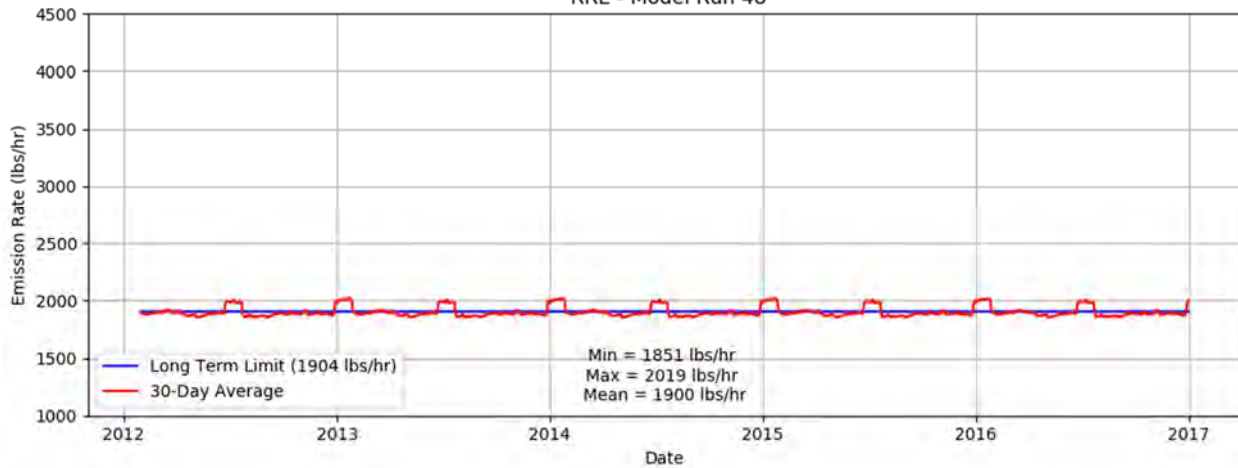
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 46



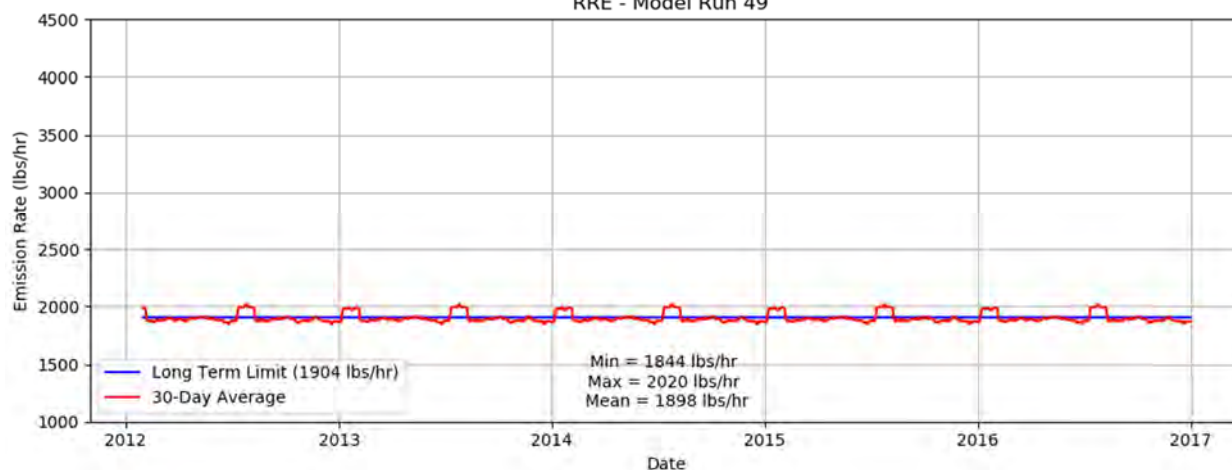
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 47



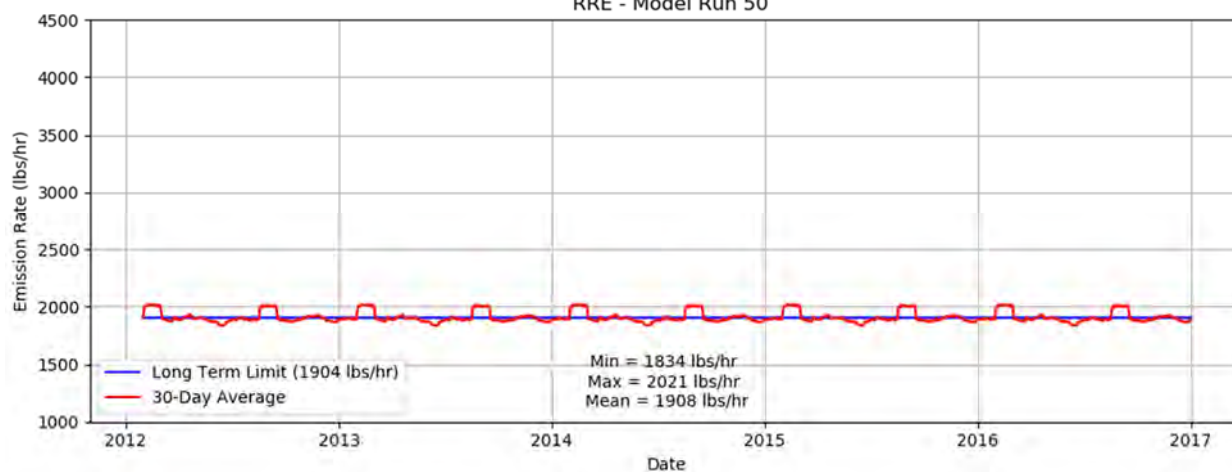
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 48



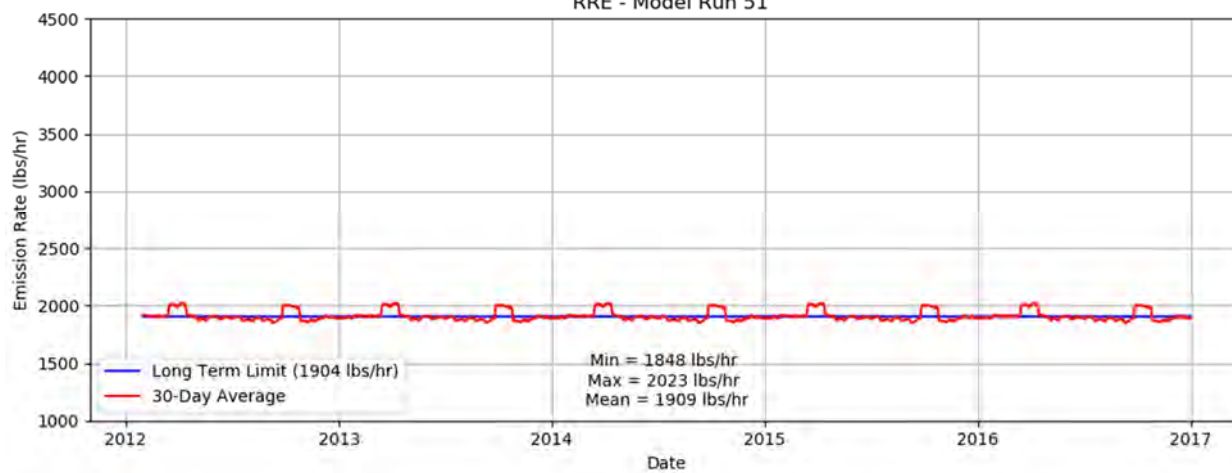
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 49



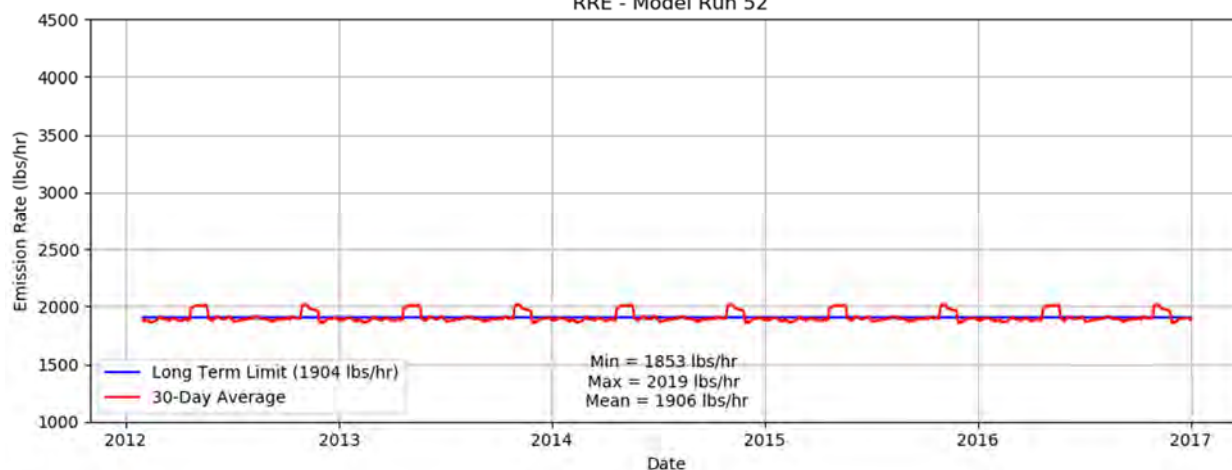
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 50



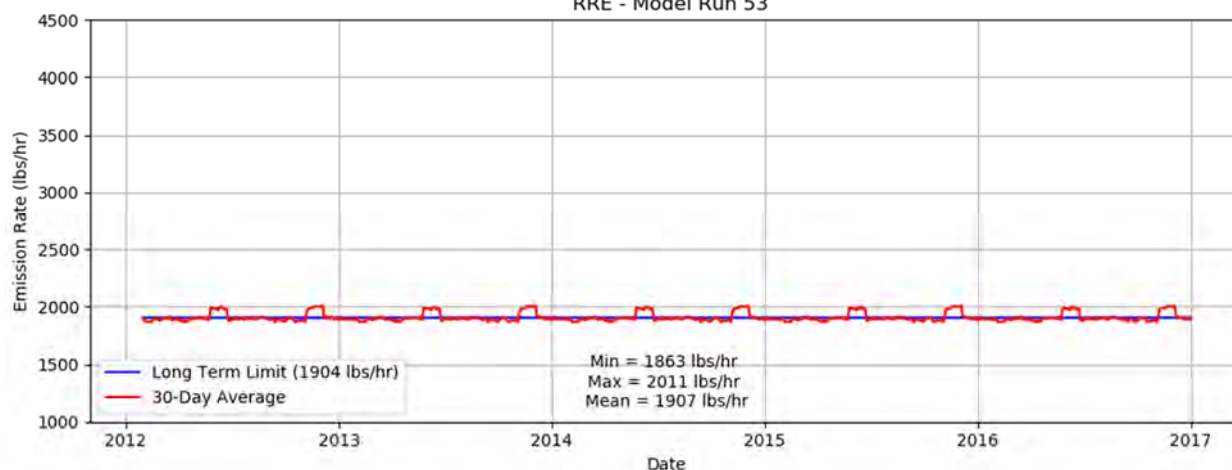
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 51



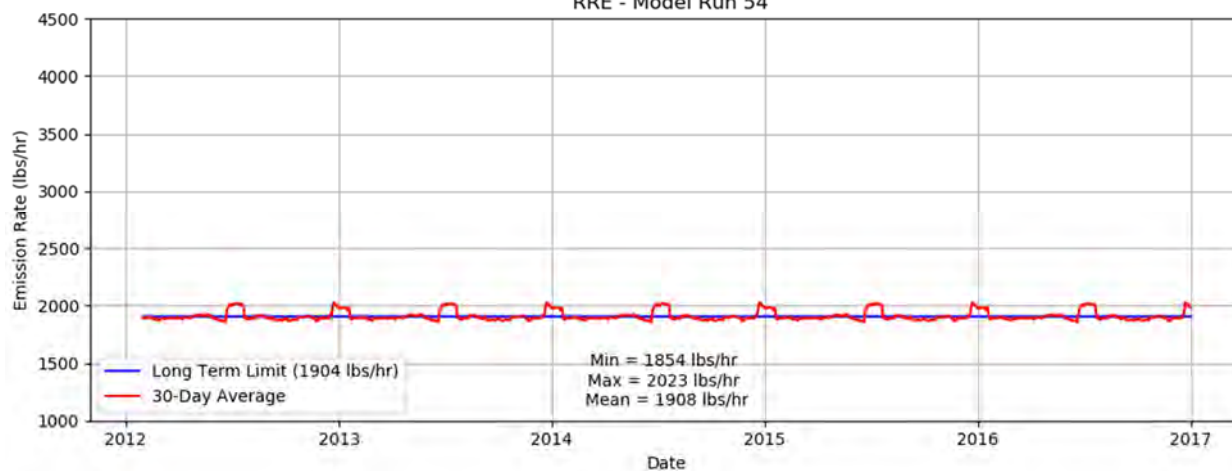
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 52



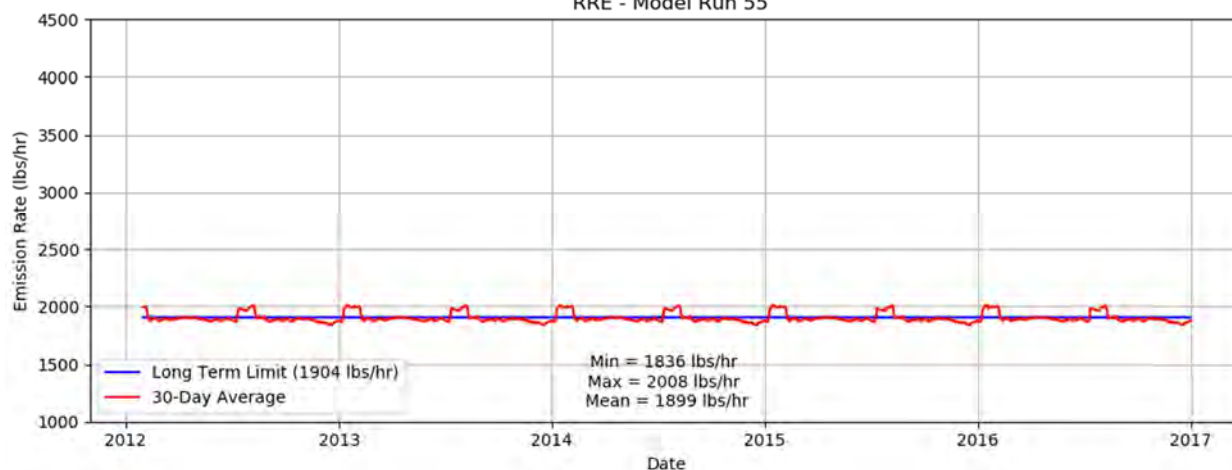
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 53



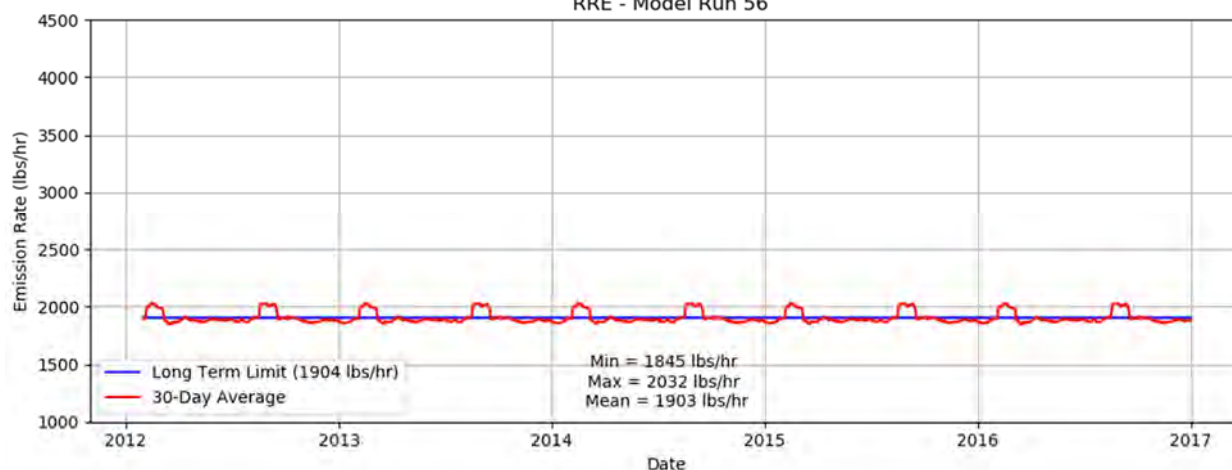
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 54



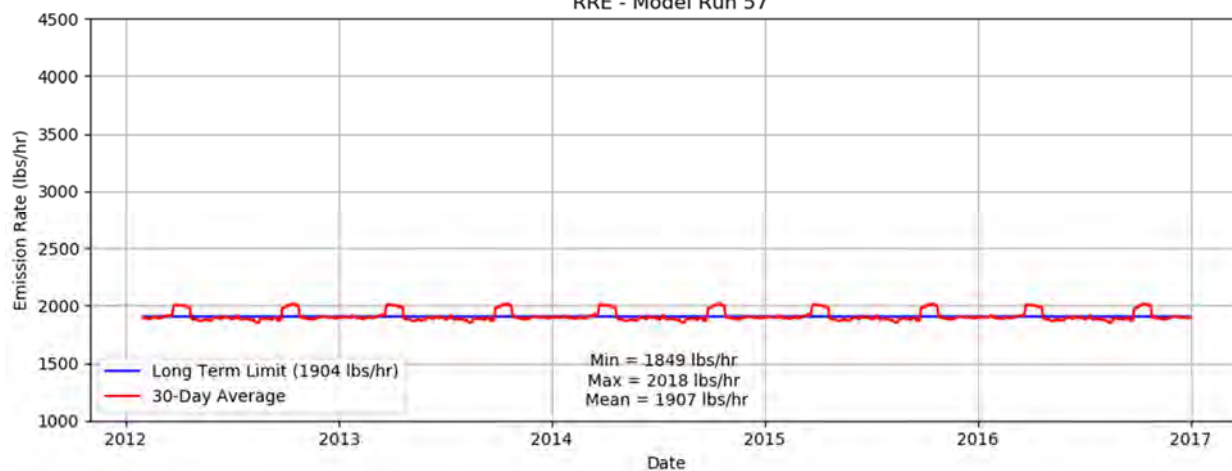
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 55



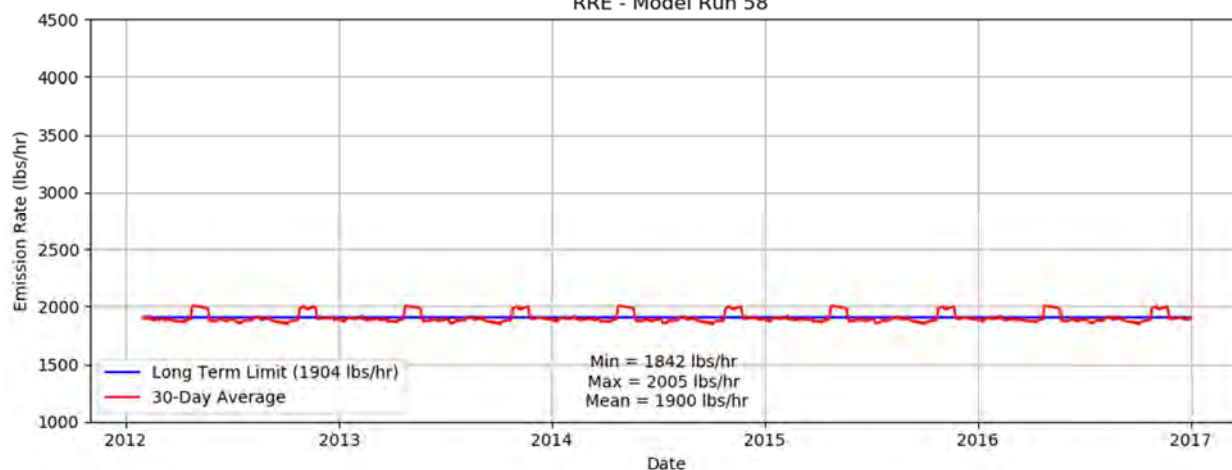
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 56



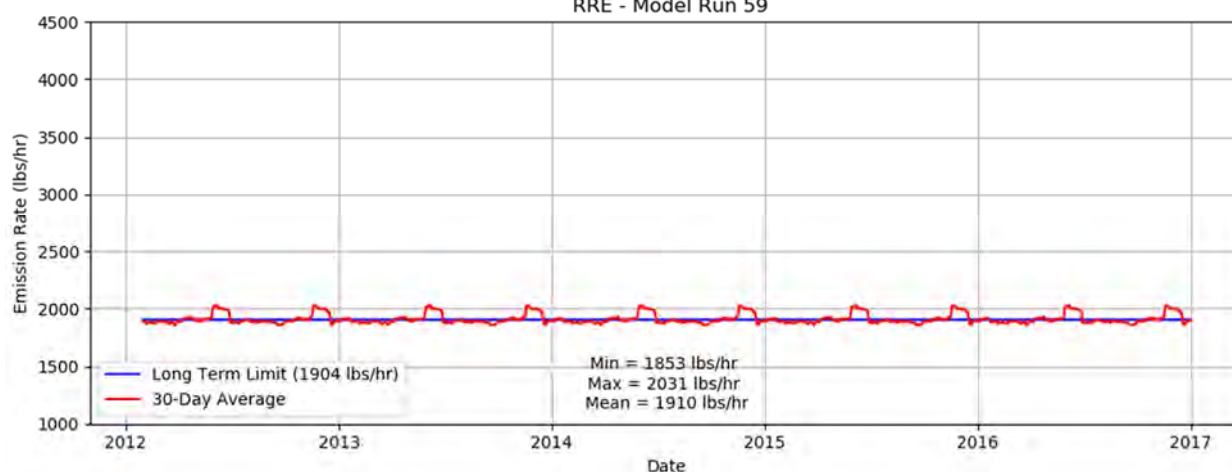
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 57



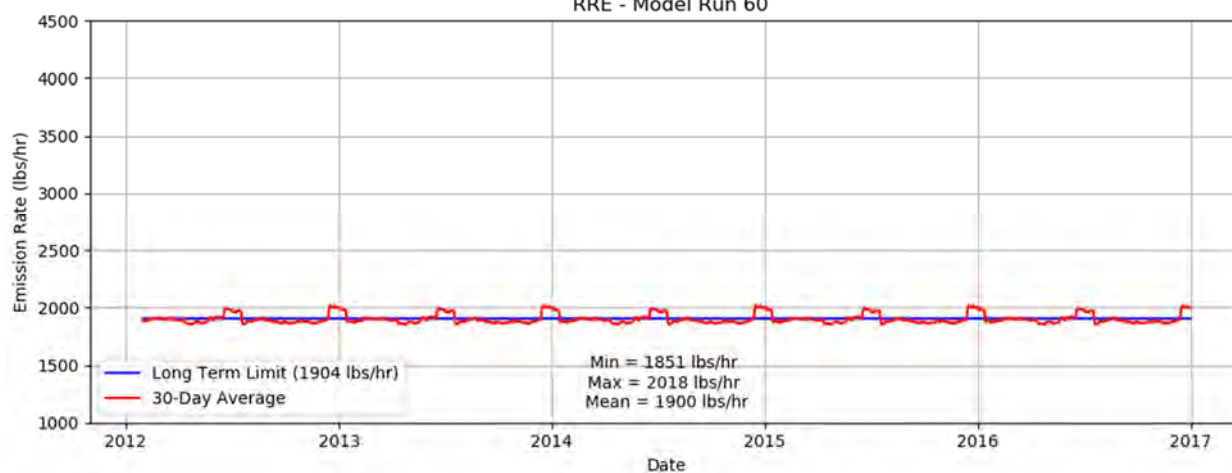
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 58



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 59

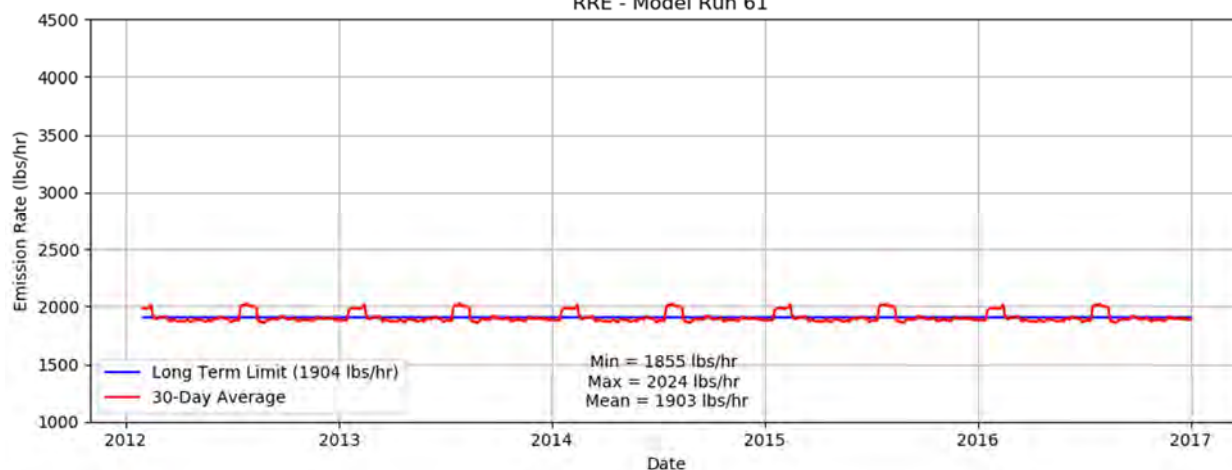


Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 60

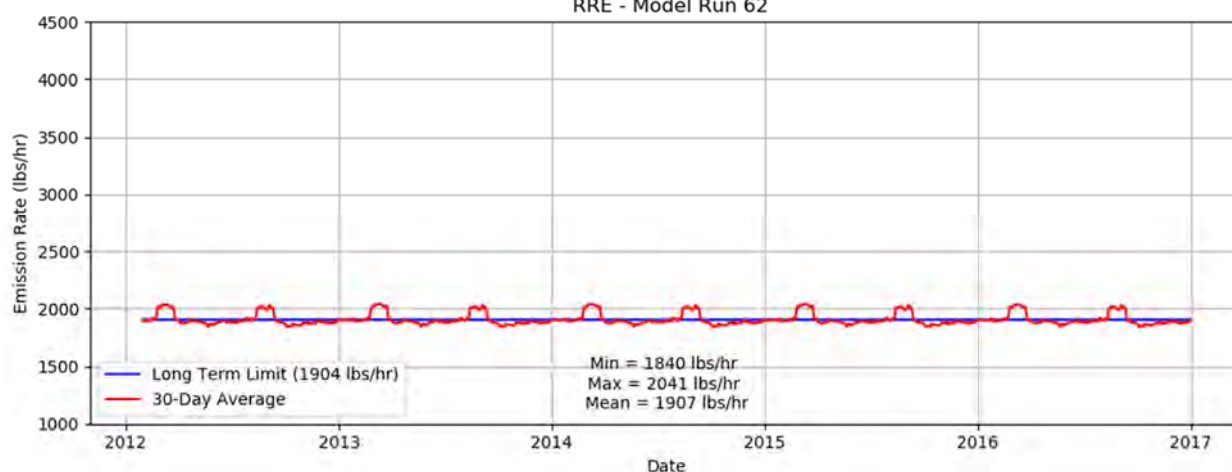




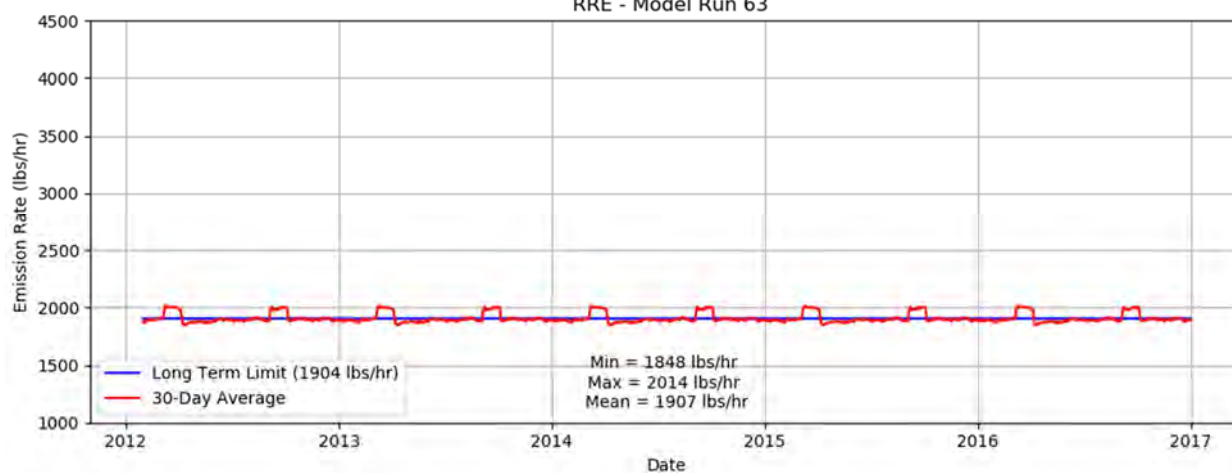
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 61



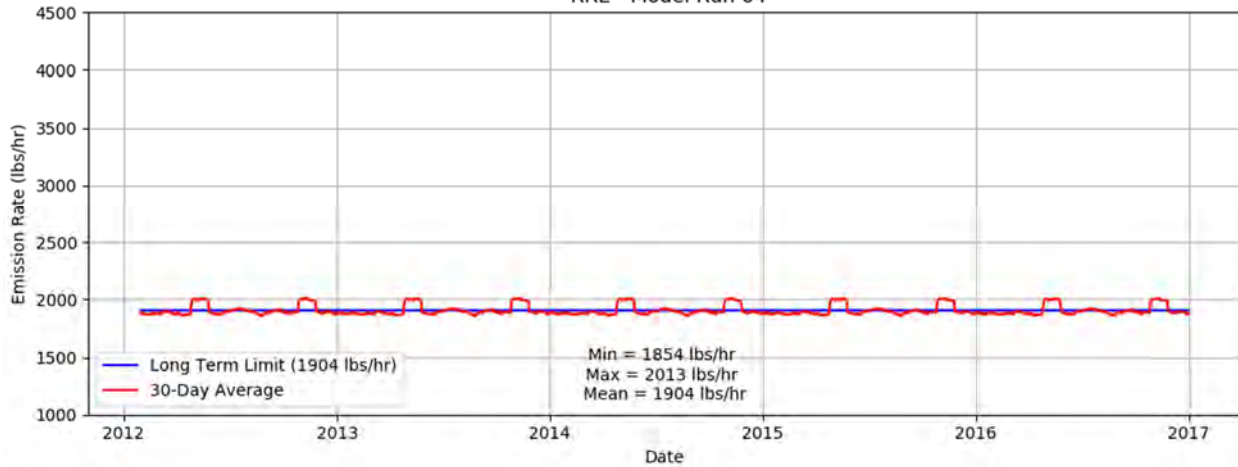
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 62



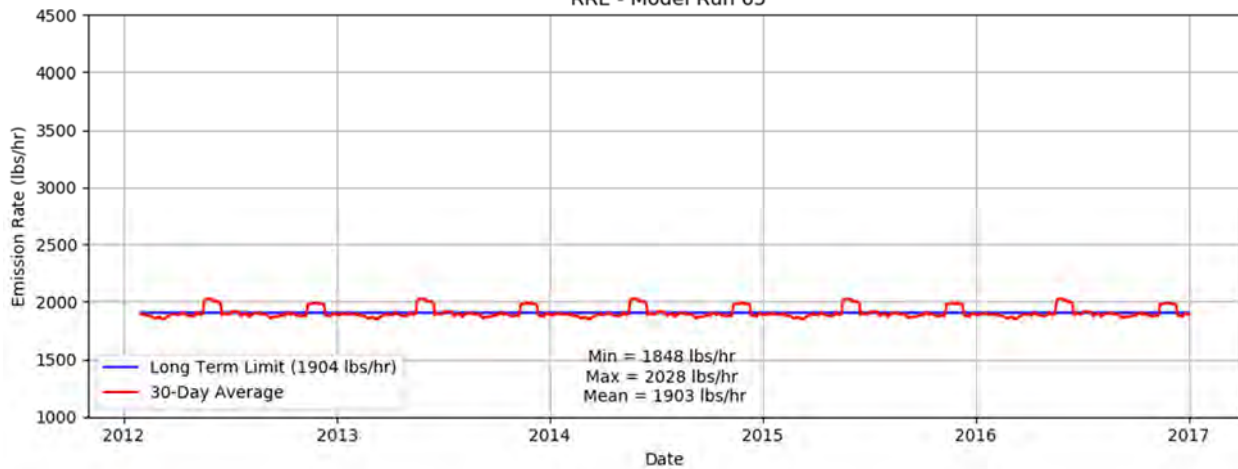
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 63



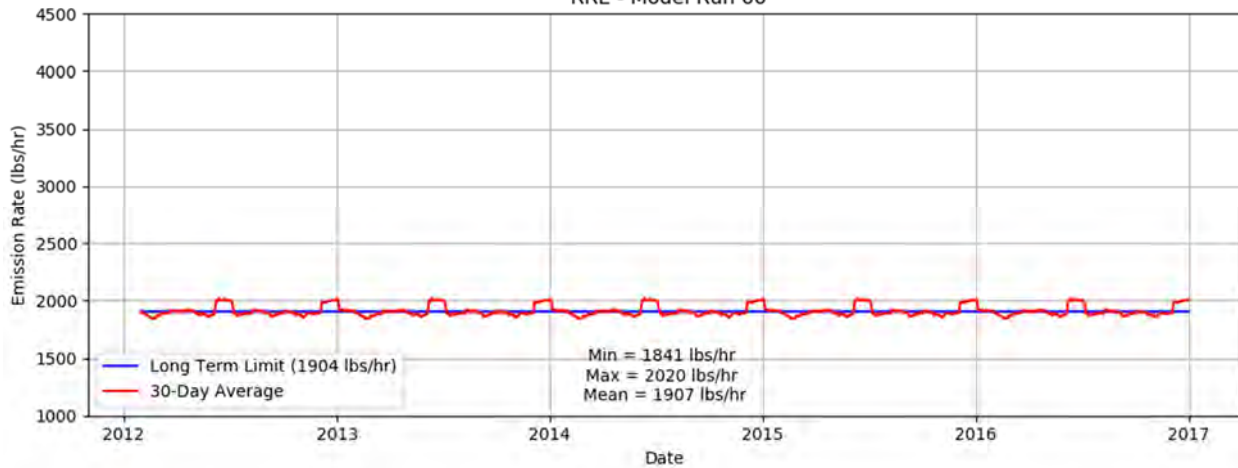
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 64



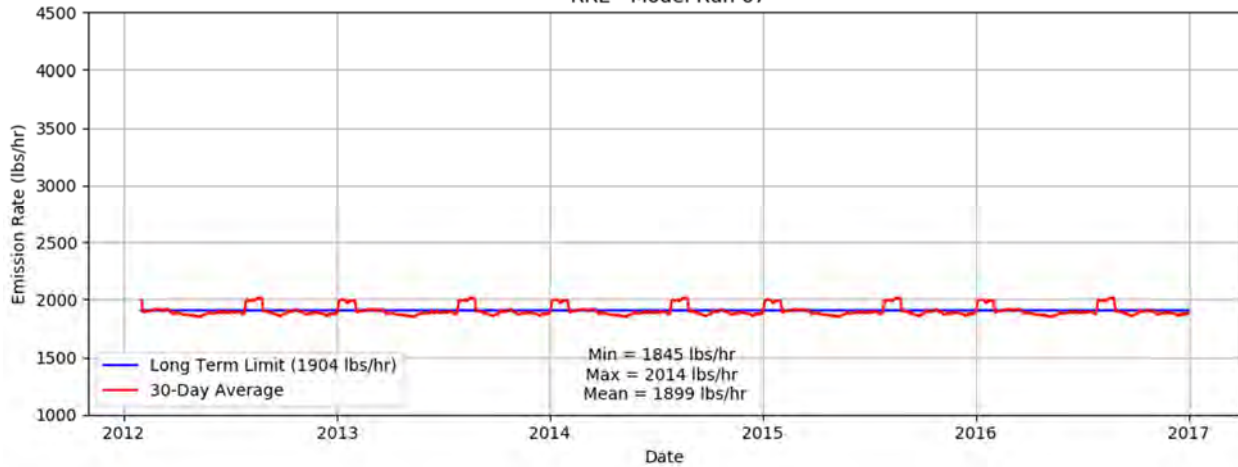
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 65



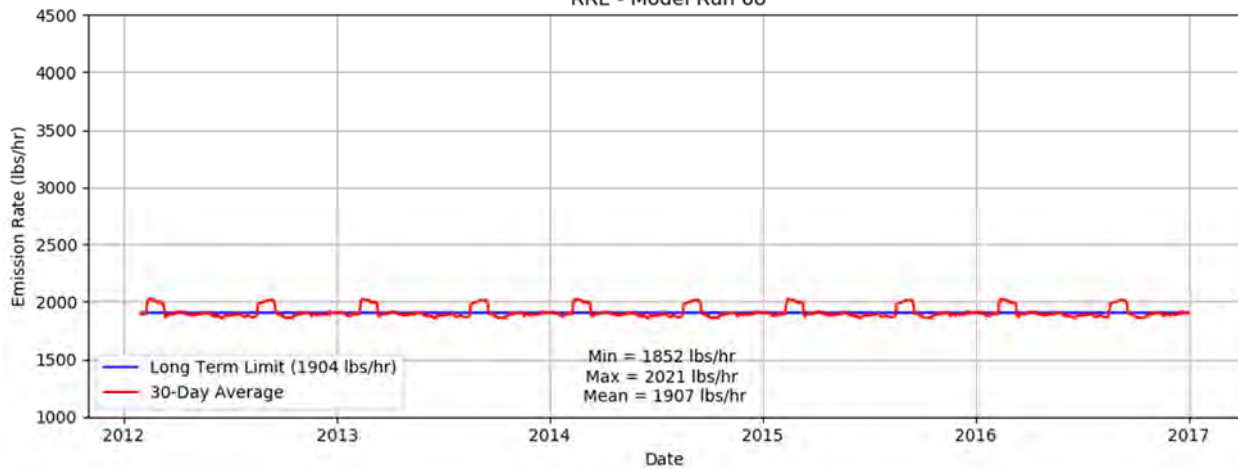
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 66



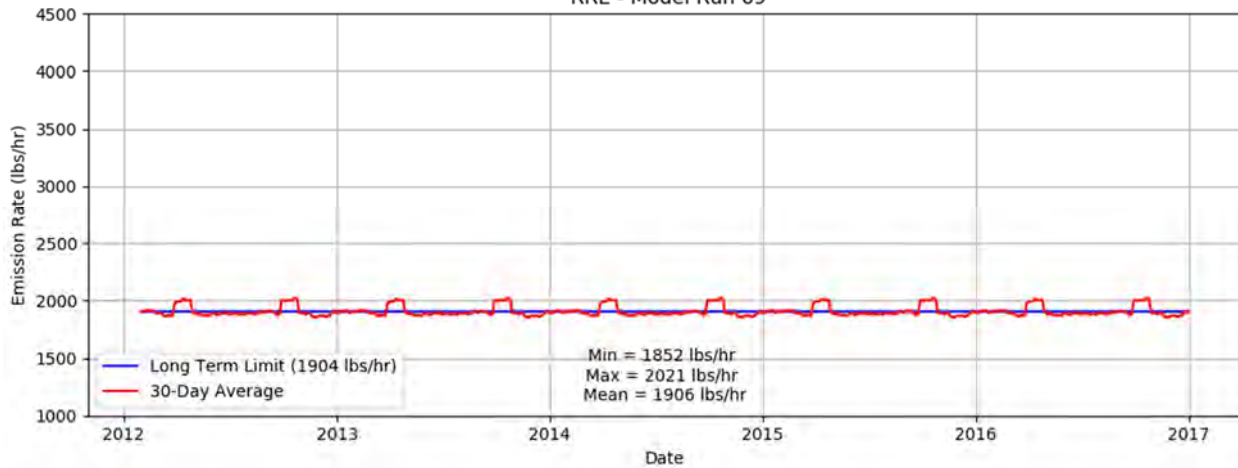
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 67



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 68

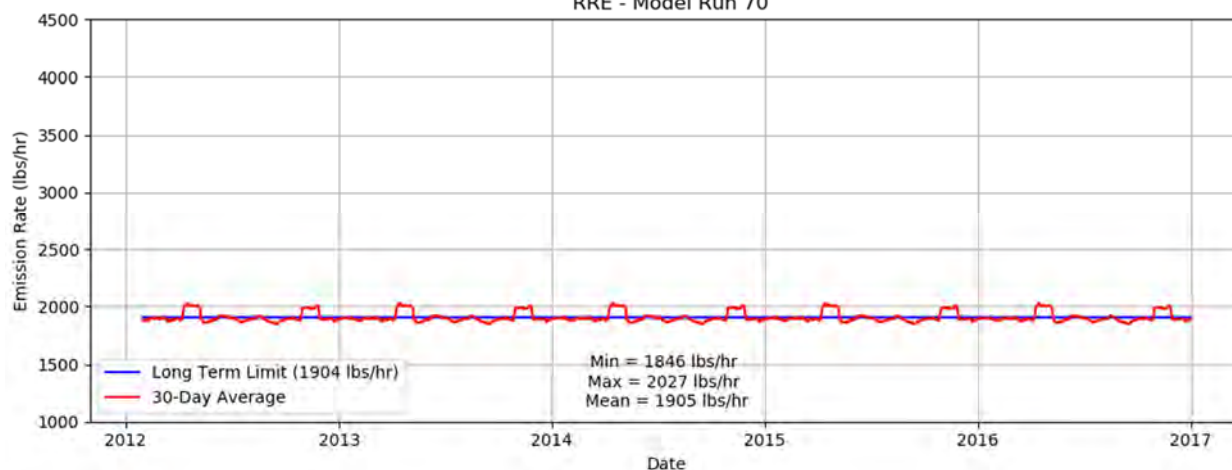


Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 69

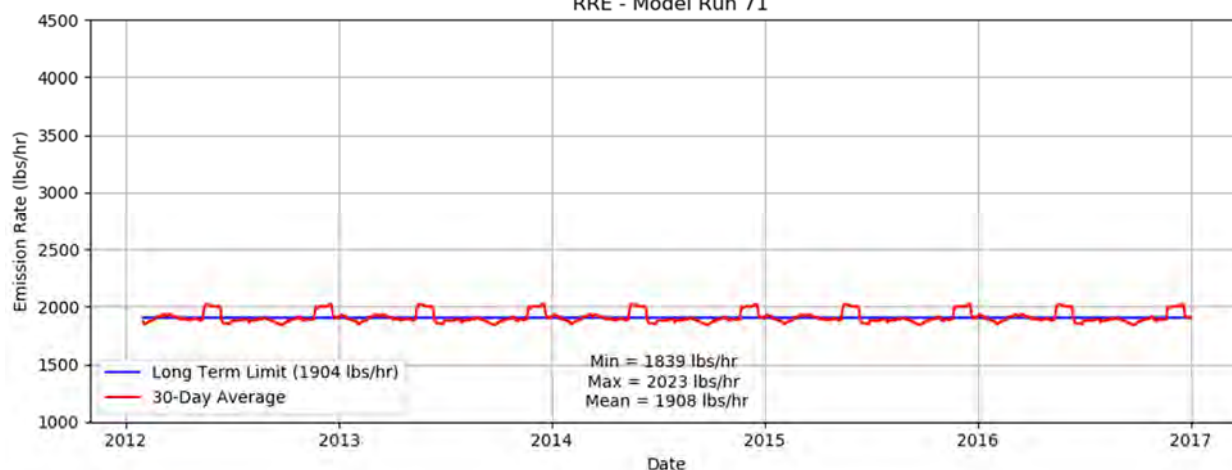




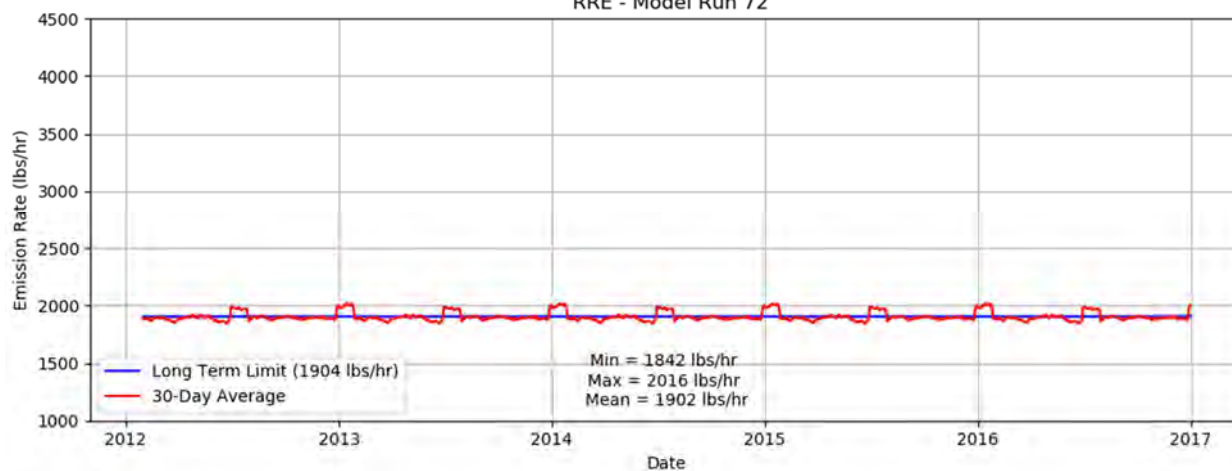
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 70



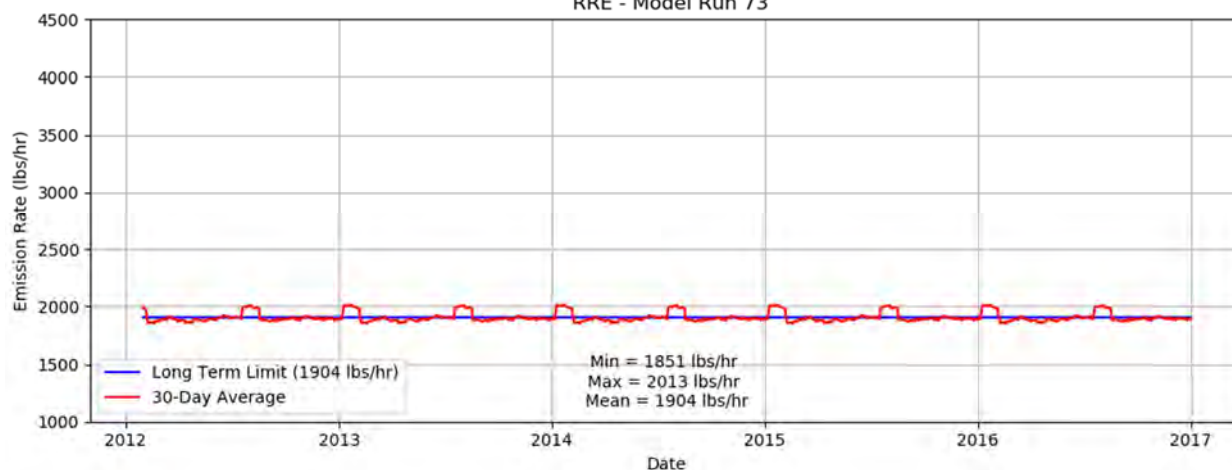
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 71



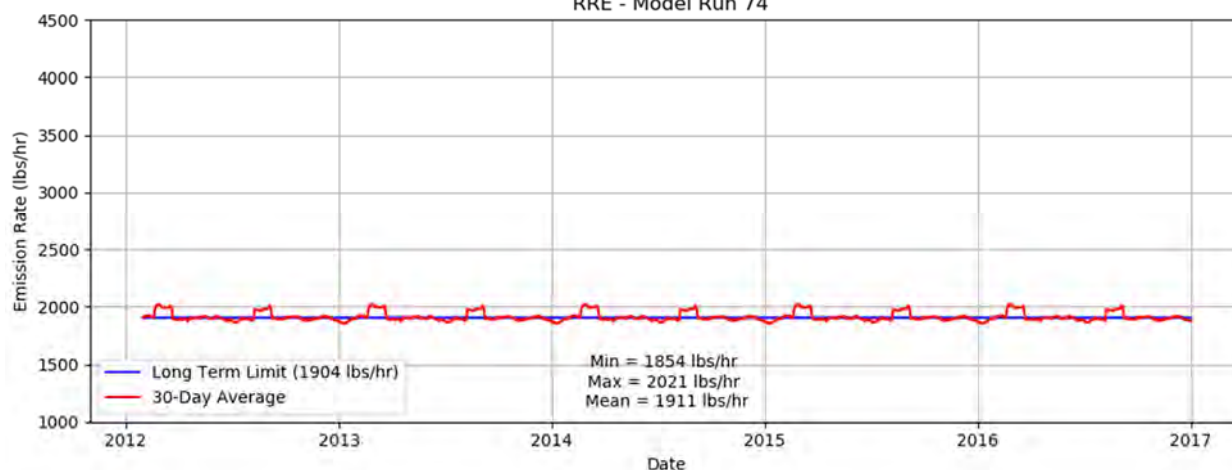
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 72



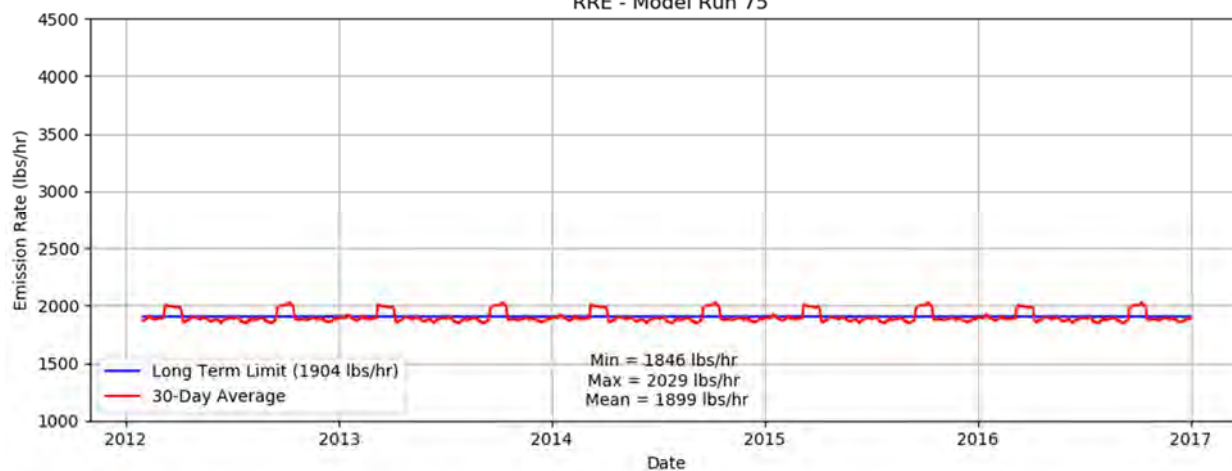
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 73



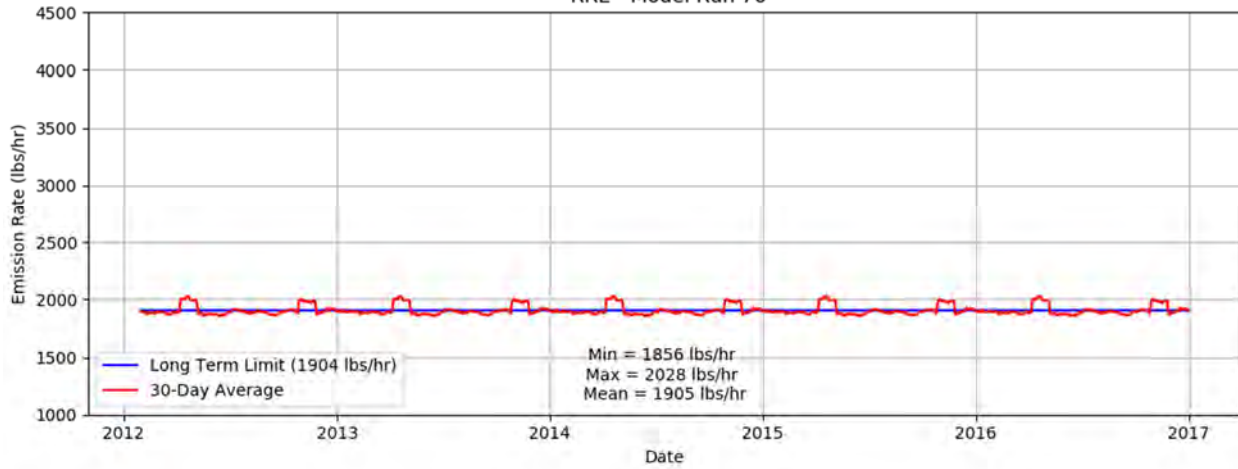
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 74



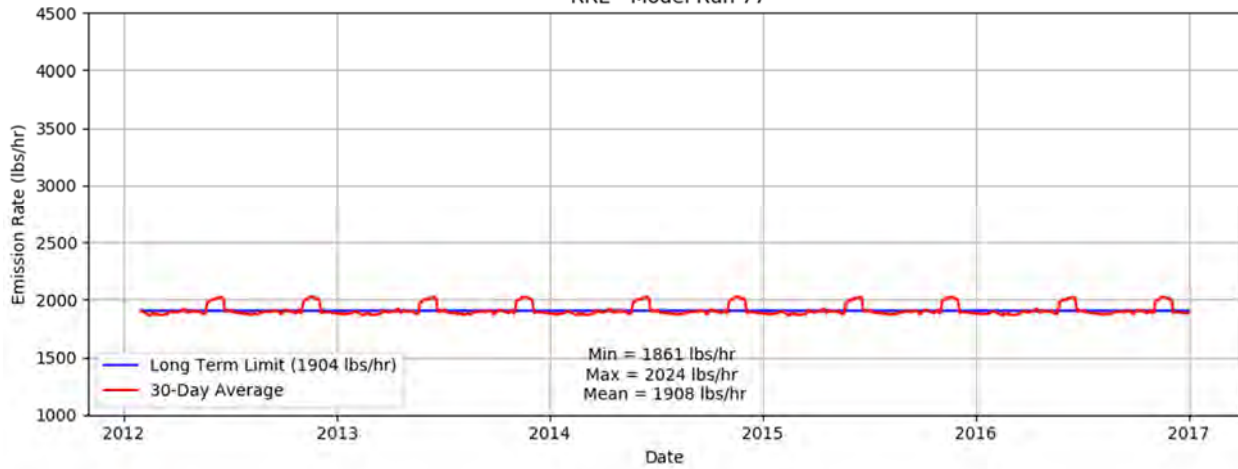
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 75



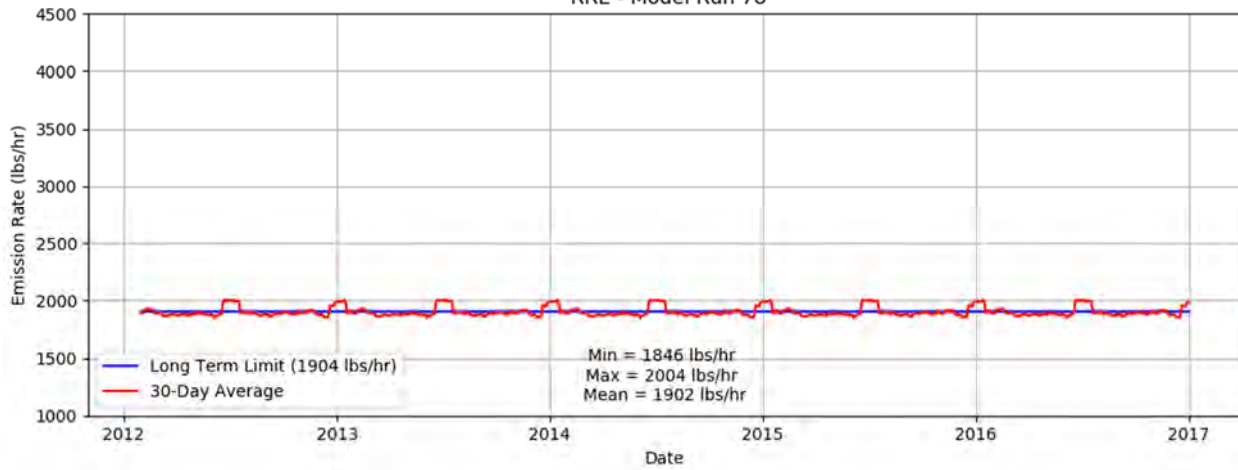
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 76



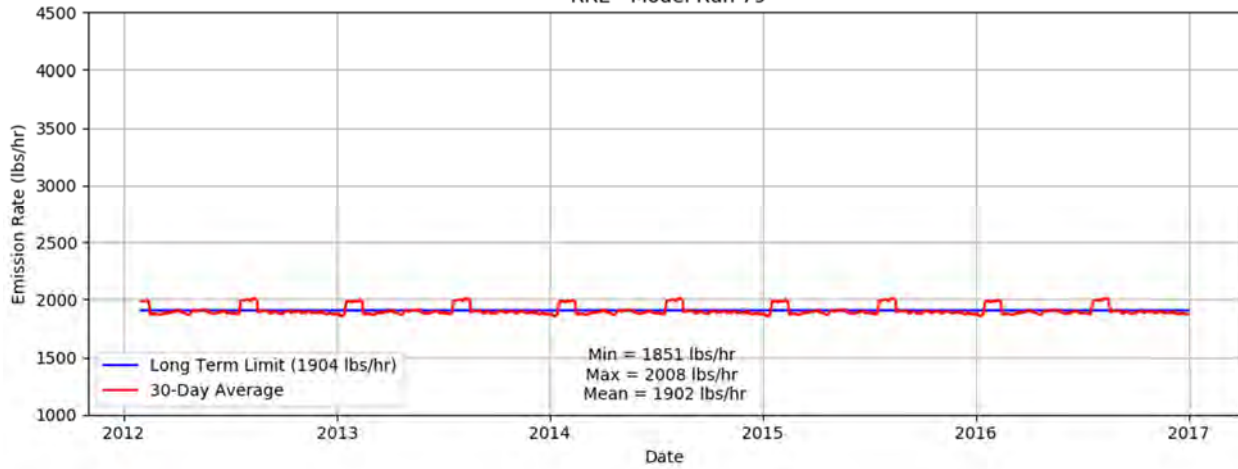
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 77



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 78



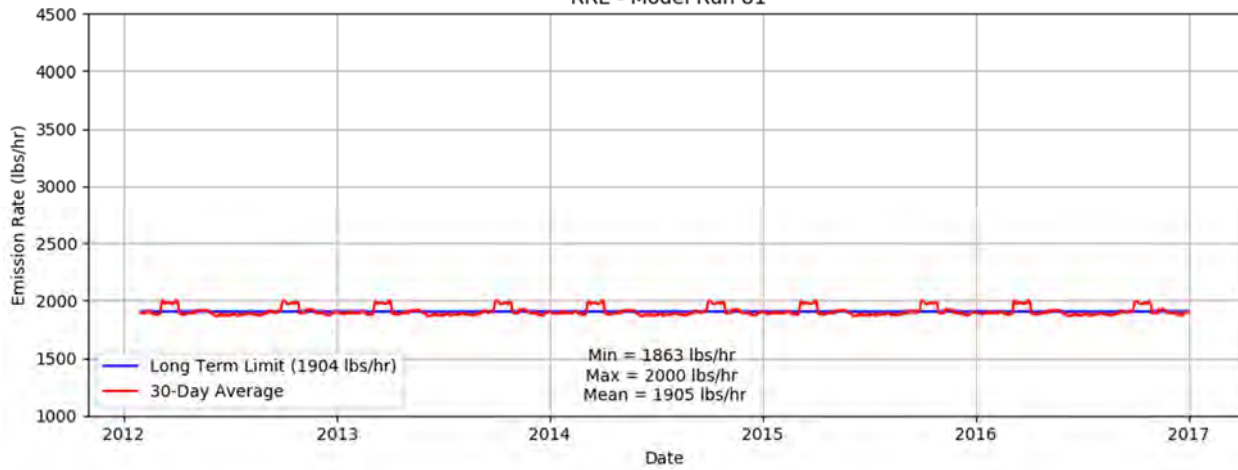
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 79



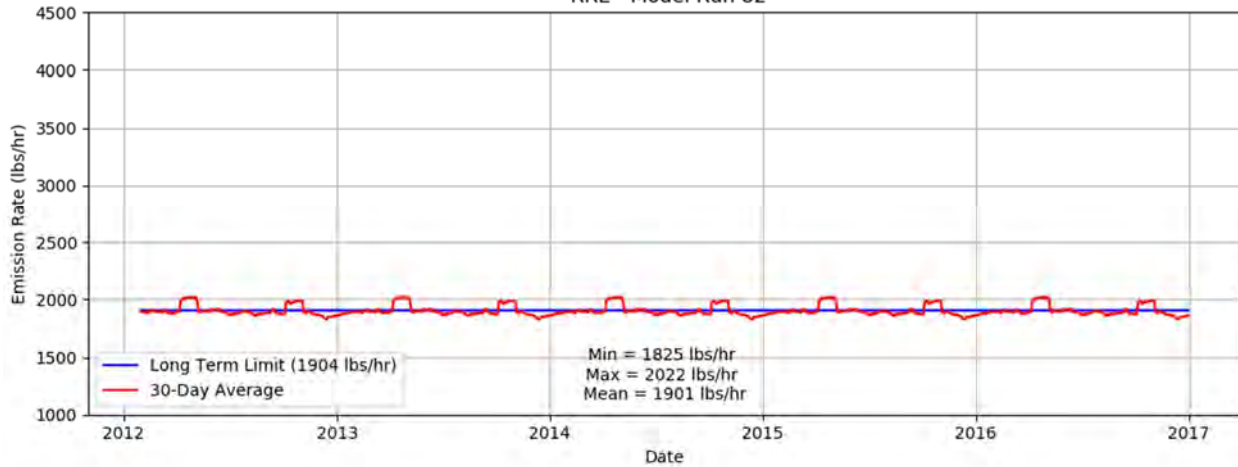
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 80



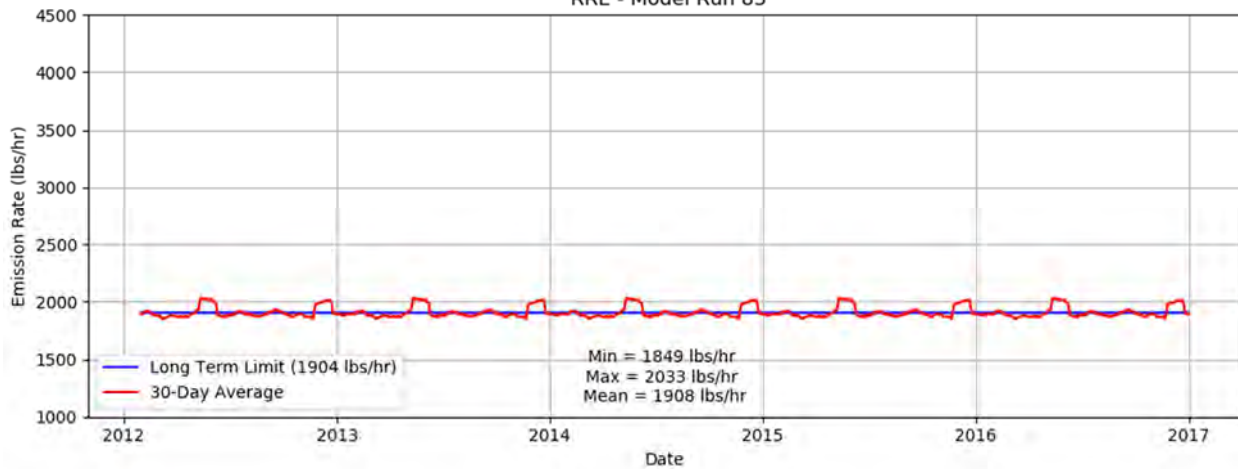
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 81



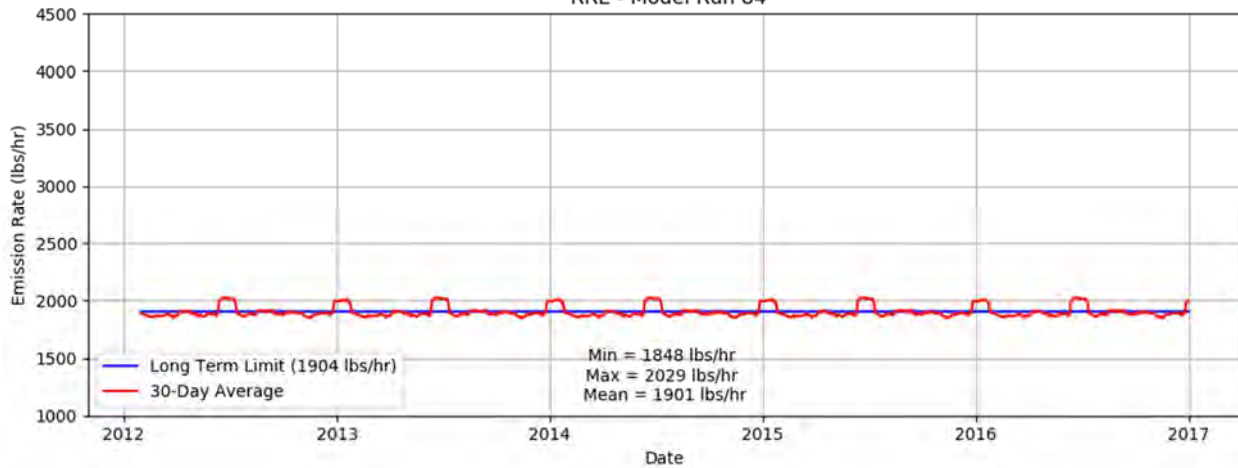
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 82



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 83

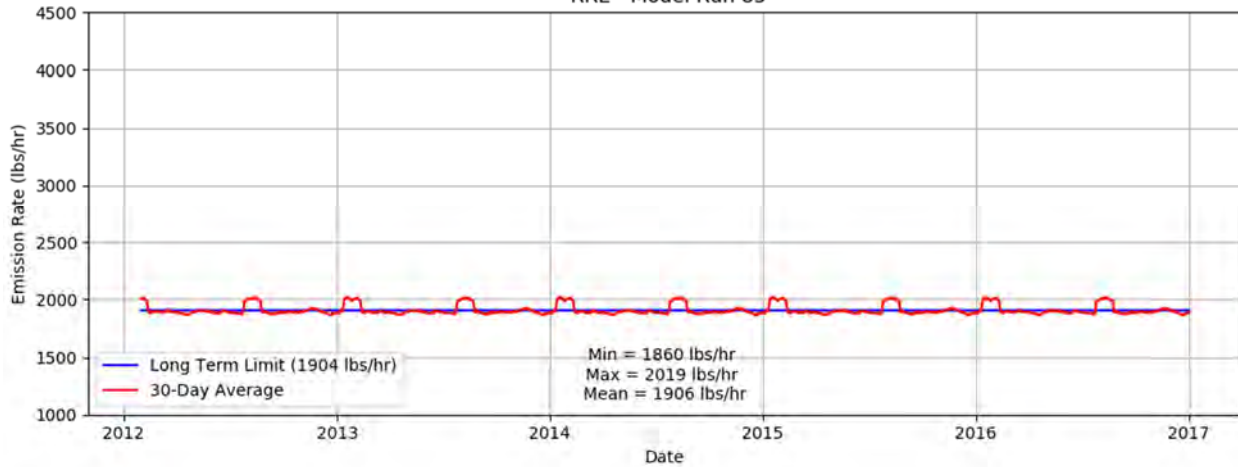


Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 84

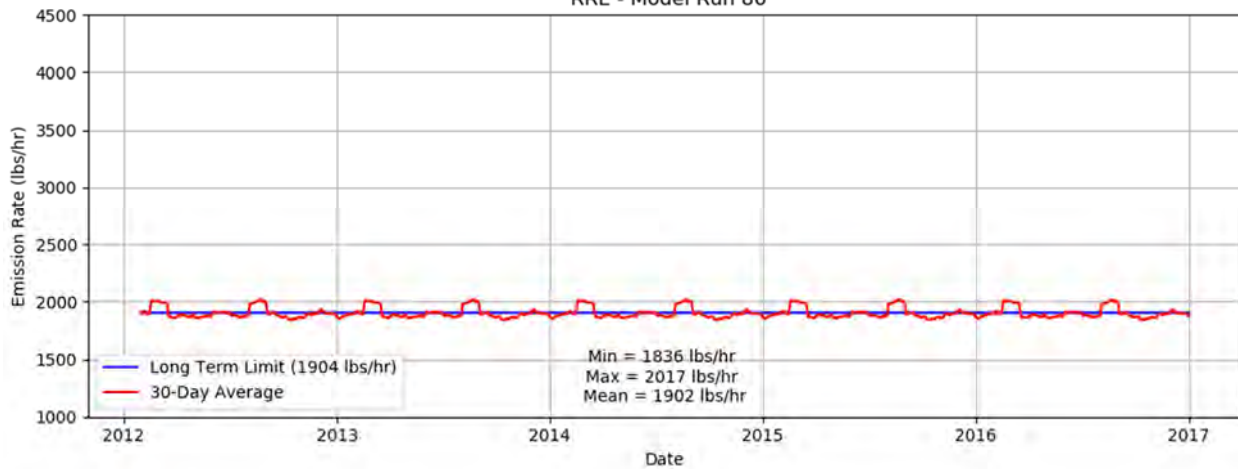




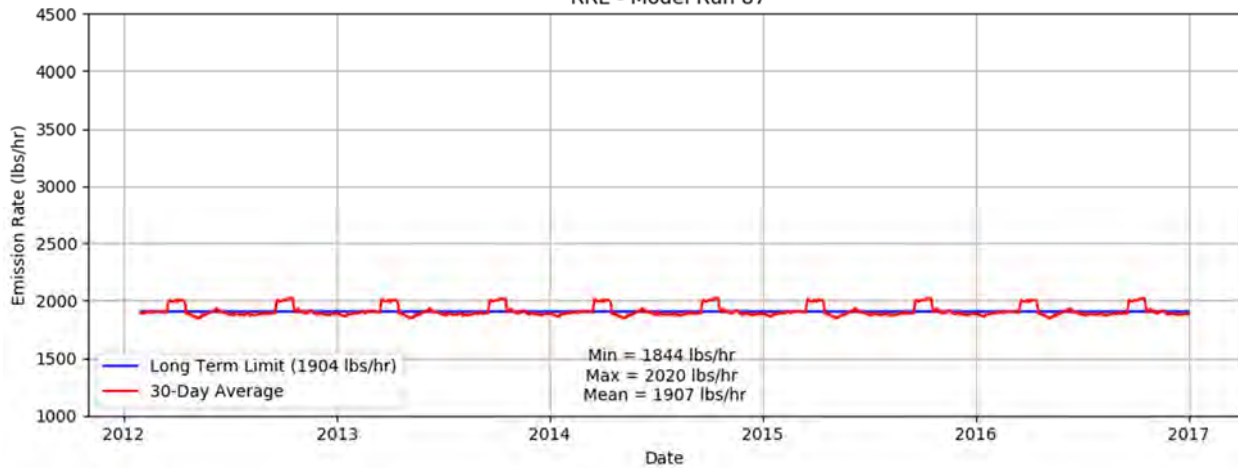
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 85



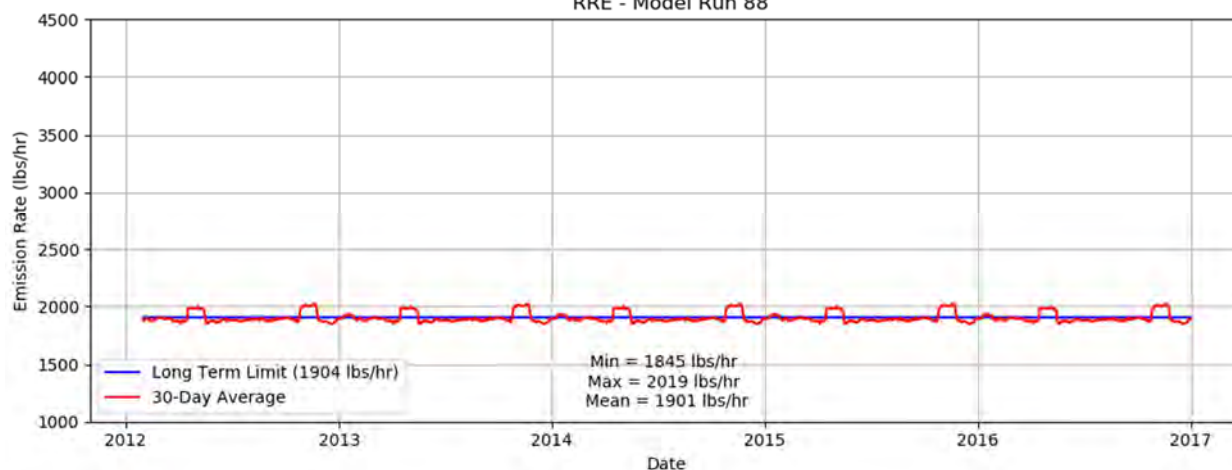
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 86



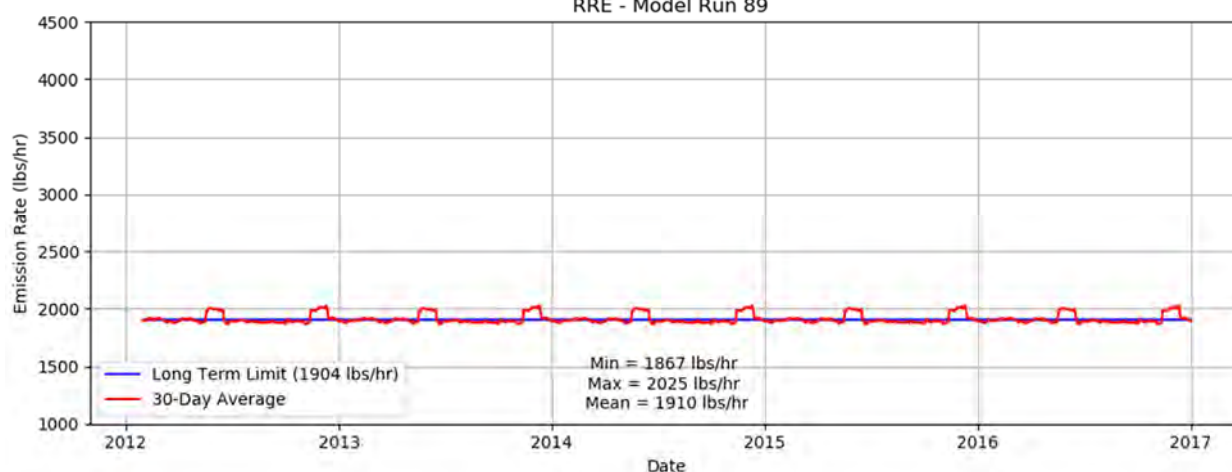
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 87



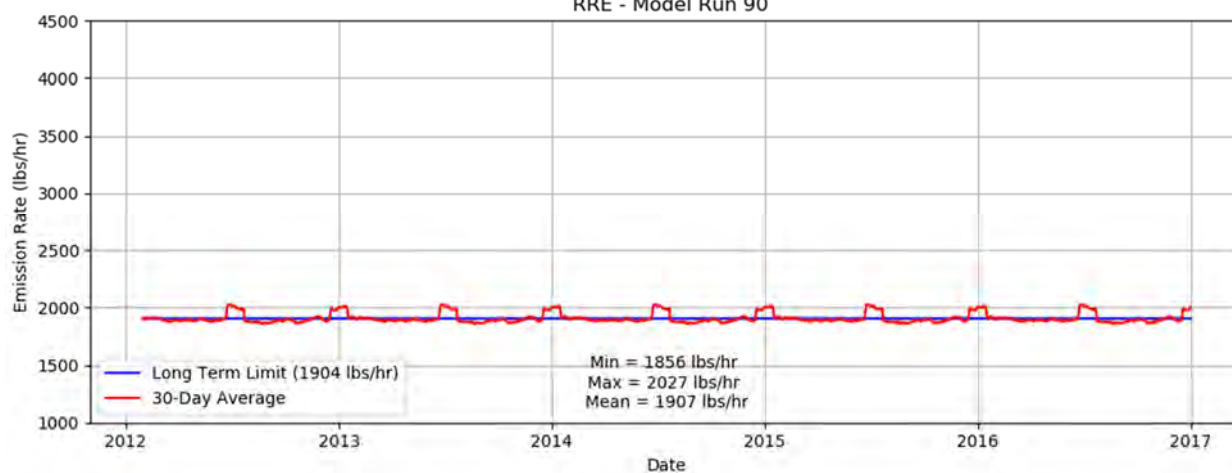
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 88



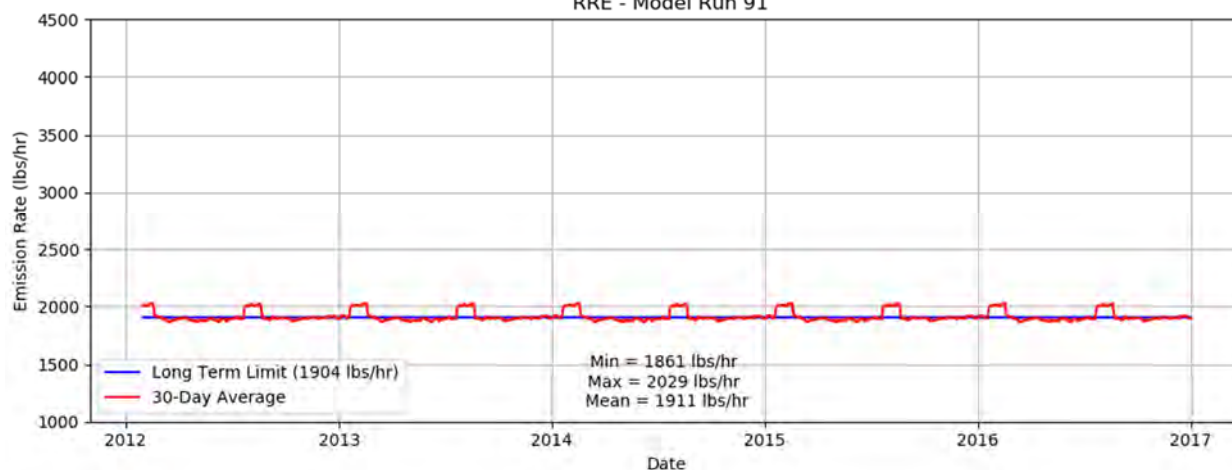
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 89



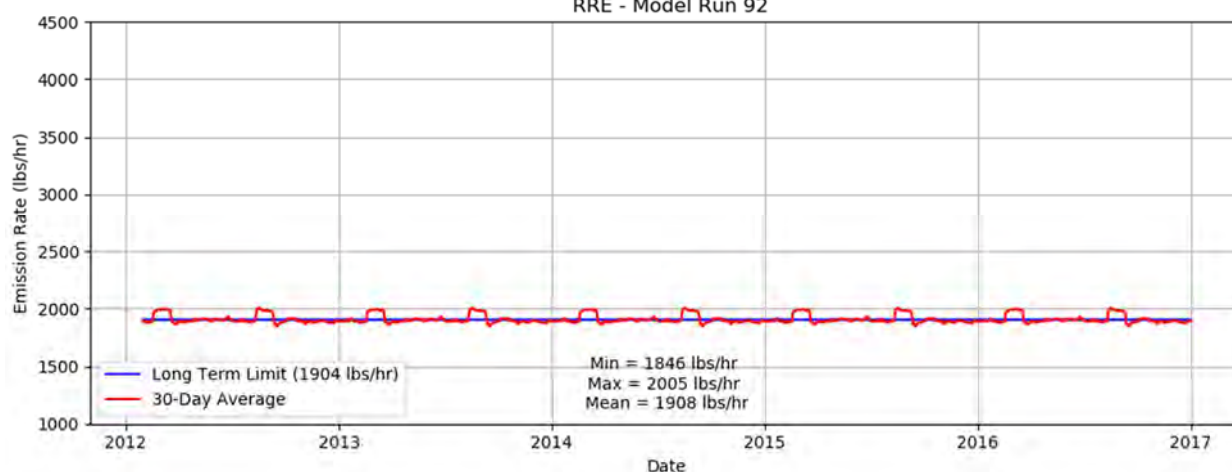
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 90



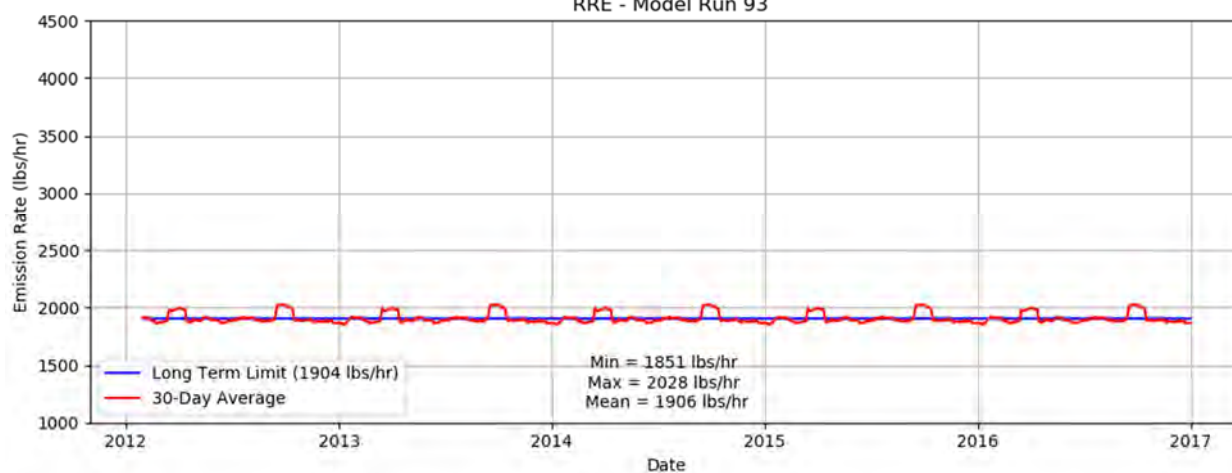
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 91



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 92



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 93

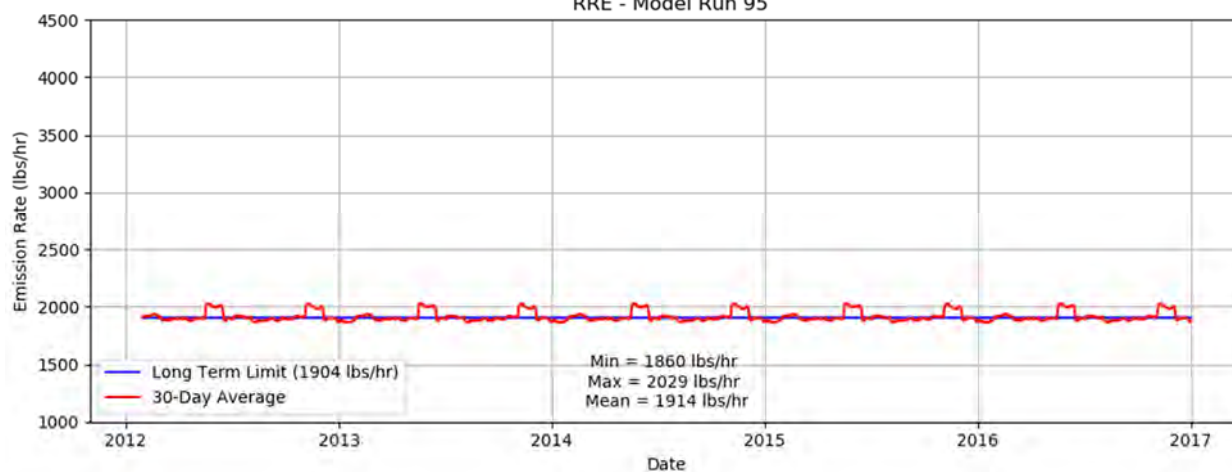




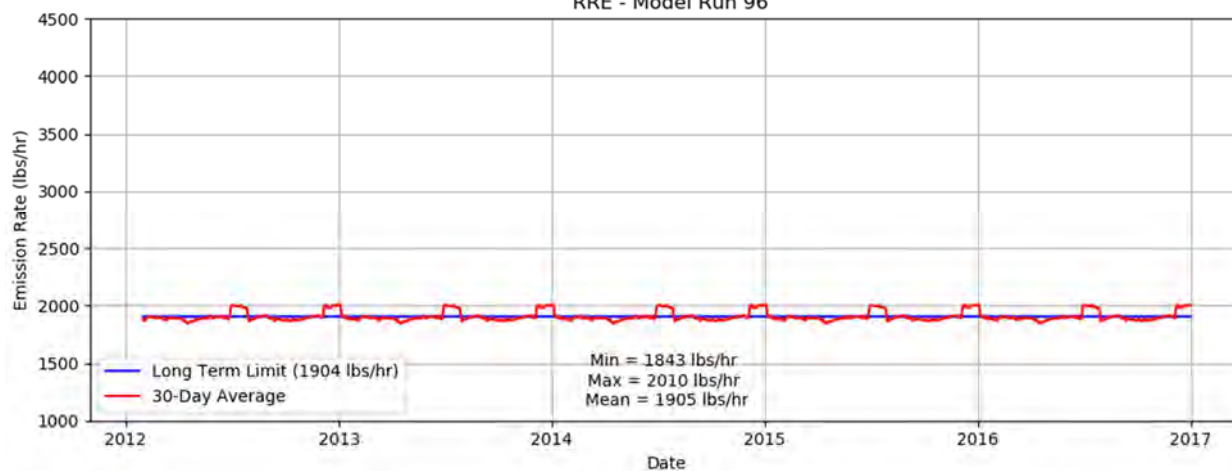
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 94



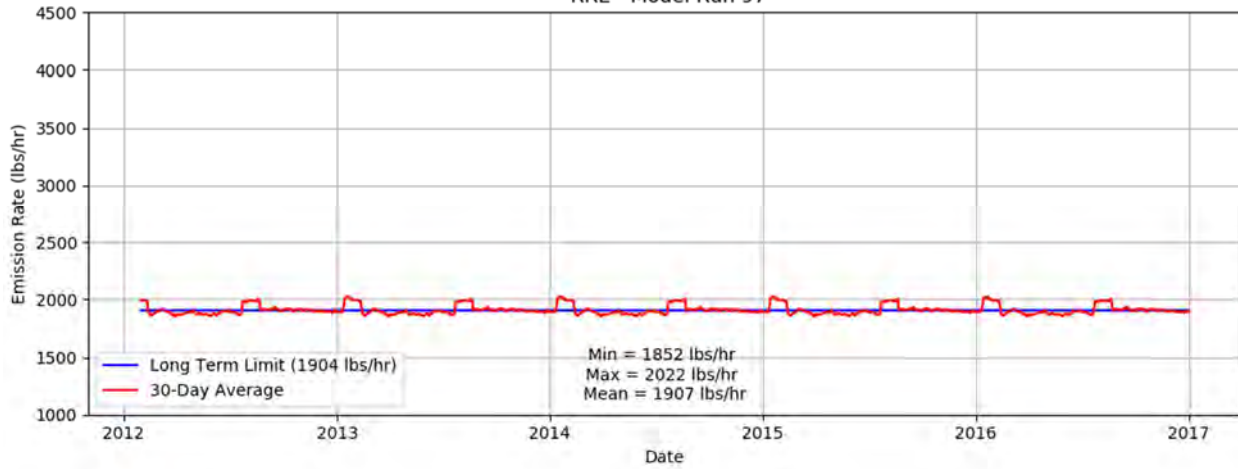
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 95



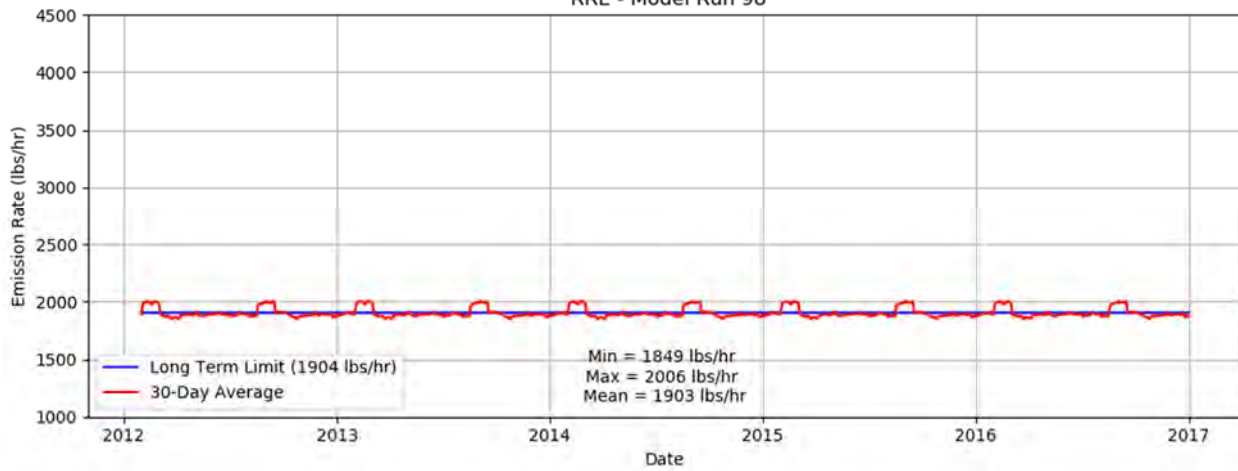
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 96



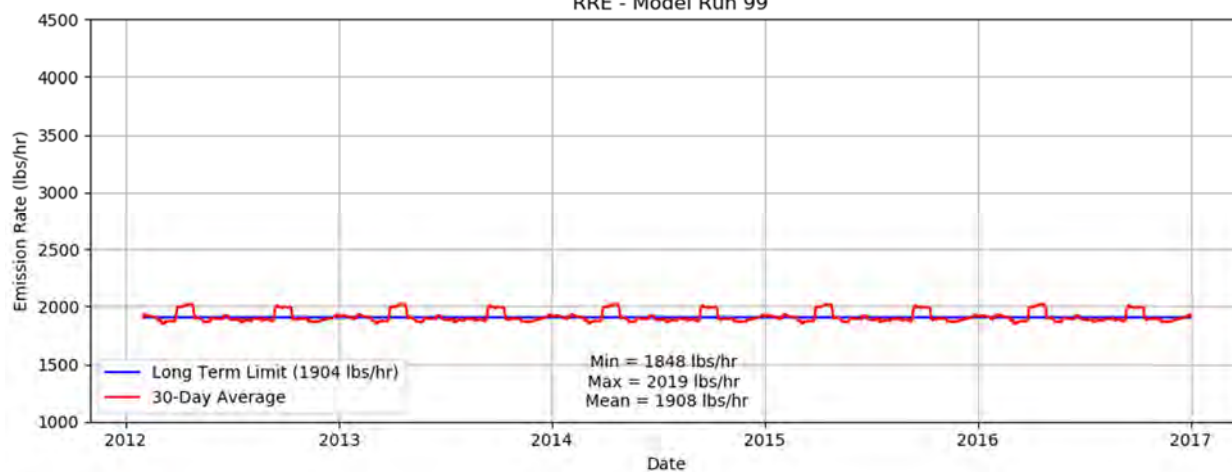
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 97



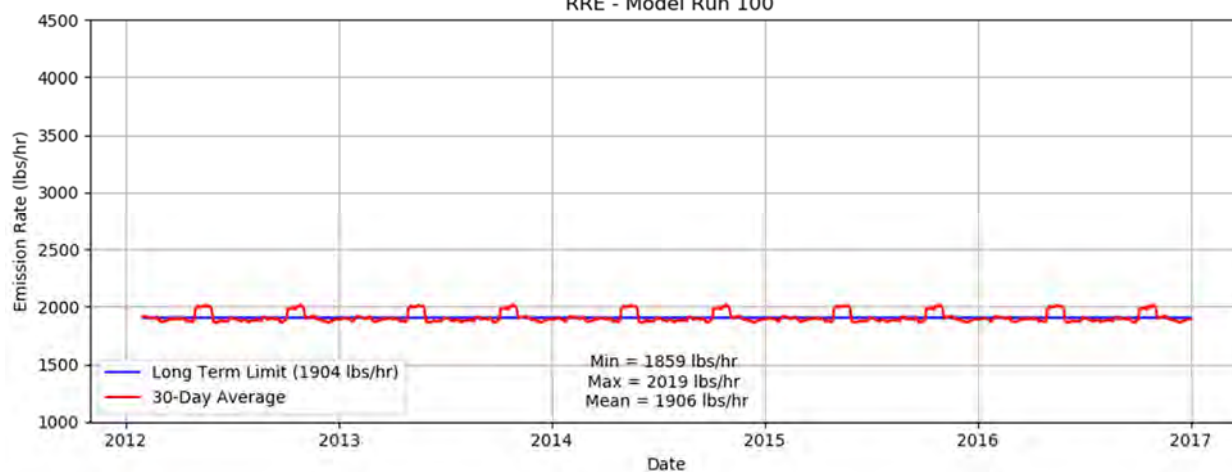
Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 98



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 99



Case1:  
Wagner Unit 3, Running 30-Day Average Emission Rate  
RRE - Model Run 100



## Appendix C-4: EPA Findings Regarding the Air Dispersion Modeling and Methods

### SO<sub>2</sub> questions and responses

**Goold, Megan**

Apr 23, 2019, 3:41 PM

to Roger Thunell, Tim

Hi Roger – Below are our responses to your recent questions about the emission limits and modeling for the Baltimore/ Anne Arundel SO<sub>2</sub> Attainment plan. Please let me know if you have any further questions.

Thanks,  
Megan

#### **MDE question:**

Megan:

Could EPA R3 make this statement about the Anne Arundel County and Baltimore County SO<sub>2</sub> nonattainment area modeling/limits? Then we could start working on the actual permit conditions for compliance within a consent agreement.

EPA Region 3 has reviewed the modeling protocols, modeling files and modeling report for the Anne Arundel County and Baltimore County SO<sub>2</sub> nonattainment area. EPA Region 3 has determined that the modeling was conducted in accordance with EPA guidance and the proposed limitations on operating parameters and SO<sub>2</sub> rates are sufficient to meet the 2010 1-hour SO<sub>2</sub> National Ambient Air Quality Standard (NAAQS). The specific permit restrictions for each of the units must be permanent, federally enforceable and be a direct reflection of the modeling submitted as part of the modeling report.

#### **EPA Response:**

The purpose of EPA's early review is to assist states in the development of SIPs and to identify potential problems, but not to give a pre-approval to any particular approach. EPA has reviewed MDE's modeling protocols, modeling files, and modeling report for the Anne Arundel County and Baltimore County SO<sub>2</sub> nonattainment area, and understands that MDE will develop consent orders with the facilities to adopt the emission and operational limits that modeled attainment to meet the 2010 1-hour National Ambient Air Quality Standard (NAAQS). EPA suggests that any changes in the Nonattainment area (since the completion of the modeling) such as background concentration, model version updates and source closures be included (in at least) the written documentation of the SIP. The specific permit restrictions for each of the units must be quantifiable (i.e., a specific amount of emission reduction can be ascribed to the measures), fully enforceable (specifying clear, unambiguous and measurable requirements for which compliance can be practicably determined), replicable (the procedures for determining compliance are sufficiently specific and non-subjective so that two

independent entities applying the procedures would obtain the same result), and accountable (source specific limits must be permanent and must reflect the assumptions used in the modeling analysis).

**MDE Question:**

Does EPA agree with the footnote attached to Table 7-1: Proposed SO<sub>2</sub> Enforceable Limits that Brandon Shores Units 1 and 2 (combined) does not need a separate individual permit limit. Raven/Talen states that a separate BS1/BS2 limit is not required as it is included in the Fort Smallwood Complex 30-day limit.

Does EPA agree with this conclusion that a stand alone SO<sub>2</sub> permit limitation is not required for the merged BS1/BS2 stack because of the proposed BS1/BS2/W 30-day limit and the proposed operational constraints on BS1/BS2?

**EPA Response:**

Yes, EPA agrees that only one 30-operating day limit (combined coal unit) would be needed for Brandon Shores 1 and 2, and Wagner Unit 3 (i.e., no unit specific limits for Brandon Shores, however there is a stand-alone 30-day limit for Wagner Unit 3). AECOM's Case 2 runs use the identical emission rate as the combined coal rate limit (3,860 lbs/hr) so one rate was used in the modeling analysis in support of the proposed limits, whether Wagner was on or off. The supplemental limits as listed in Table 7-1 for Brandon Shores and Wagner would also be included as permit limits.

Megan S. Goold  
U.S. EPA - Region 3  
Air & Radiation Division  
Planning & Implementation Branch  
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Roger Thunell -MDE- [roger.thunell@maryland.gov](mailto:roger.thunell@maryland.gov) Apr 26, 2019, 8:53 AM

to Megan, Tim

Thanks for the response. I have a clarification.

MDE did not mean to ask for pre-approval of the SIP.

MDE is asking EPA if the modeling protocols, modeling files and modeling report were conducted in accordance with and meet EPA guidance.

Could EPA make this statement?

---

Goold, Megan

May 1, 2019, 4:10 PM

to Roger, Tim

Roger,

Sorry, I must have missed this email on Monday. Based on the information provided and reviewed to date, it appears that MDE's modeling protocols, modeling files, and modeling report are consistent with EPA guidance.

Thanks,

Megan Goold

U.S. Environmental Protection Agency Region 3

215-814-2027

---

EPA states:

"Based on the information provided and reviewed to date, it appears that MDE's modeling protocols, modeling files, and modeling report are consistent with EPA guidance."

"EPA has reviewed MDE's modeling protocols, modeling files, and modeling report for the Anne Arundel County and Baltimore County SO<sub>2</sub> nonattainment area, and understands that MDE will develop consent orders with the facilities to ***adopt the emission and operational limits that modeled attainment*** to meet the 2010 1-hour National Ambient Air Quality Standard (NAAQS)."

CONCLUSION:

The modeling protocols, files and report are consistent with EPA guidance and the emission and operational limits modeled attainment of the NAAQS.





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029**

DEC 27 2018

George S. Aburn, Director  
Maryland Department of the Environment  
Air and Radiation Management Administration  
1800 Washington Boulevard  
Baltimore, Maryland 21230

Dear Director Aburn:

Thank you for requesting pre-submittal review of the 1-Hour Sulfur Dioxide (SO<sub>2</sub>) National Ambient Air Quality Standard (NAAQS) State Implementation Plan (SIP) for the Anne Arundel County and Baltimore County, Maryland Nonattainment Area. The draft SIP revision included 30-day SO<sub>2</sub> emission limits at the Fort Smallwood Complex using a novel approach, namely a calendar-day compliance methodology, which allows for the inclusion of numerous nonoperating hours in the calculations for determining compliance with the limit. EPA has fully reviewed this request and considers this compliance approach to be inconsistent with EPA's Guidance for 1-hour SO<sub>2</sub> Nonattainment Area SIP Submissions (April 2014), and does not provide a supportable basis for determining that the draft SIP would ensure attainment of the NAAQS.

The 30-day averaging approach included in EPA's guidance was intended to provide additional operational flexibility for sources with significant variability in SO<sub>2</sub> emissions by allowing these sources to use longer-term average limits, provided EPA could determine that the longer-term average limits were able to ensure attainment. In determining whether a longer-term limit is able to ensure attainment of the 1-hour NAAQS, EPA considers many factors including, but not limited to, the method for determining compliance with the longer-term limit. Maryland has not demonstrated that its limit, using a compliance approach that makes compliance dependent in significant part on the frequency of operation and thus less dependent on how well emissions are controlled during operating hours, meets this critical criterion of reasonably showing attainment of the 1-hour standard.

Furthermore, the development of the 30-day average emission limit (which was derived as an average across an artificial emission distribution that includes a non-zero "floor" for emissions during nonoperating hours) is inconsistent with the proposed compliance determination method (which averages in zero emissions values during nonoperating hours and nonoperating days). EPA's 2014 Guidance underscores that the same data handling approach used for deriving the emission limit should be used for determining compliance with the limit. Additionally, the importance of treating nonoperating hours consistently throughout the development of, and compliance with, longer-term average emission limits is magnified for sources that have significant periods of nonoperation. EPA therefore considers the proportion of



nonoperating hours that are being included in the development of the longer-term average limit, and the method of demonstrating compliance with that limit, when evaluating whether such limits and compliance methods provide a reasonable basis for attainment of the NAAQS. EPA believes that there is greater risk for a NAAQS violation for units that adopt a longer term average limit and operate with significant periods of nonoperation throughout the year, which conversely could allow significant periods of potentially high emissions.

Determining compliance by averaging in zero values for nonoperating hours is especially problematic for units with significant periods of nonoperation throughout the year. In these cases, this compliance method could allow the unit to emit very high quantities of SO<sub>2</sub> during many operating periods. In this scenario, the unit could be in compliance with the 30-day average limit, while having very high emissions during many hours of the 30-day period that could lead to a violation of the NAAQS. Hence, it is particularly critical for this type of source to comply with the emission limits in a way that will minimize the magnitude and frequency of high emission values (i.e., comply with the limit only using operating hours). While Maryland has proposed additional supplemental limits to help constrain the frequency and magnitude of these high emissions spikes, the complexity created by the number of operating scenarios possible between multiple units at the Fort Smallwood facility do not reasonably lead EPA to conclude that the proposed limit and compliance method provide a comparable level of protection for a 1-hour NAAQS. As such, the draft SIP creates a high level of uncertainty in ensuring that compliance (as proposed in the draft SIP) with the proposed 30-day average emission limit would result in attainment.

My staff are available to discuss potential alternatives for the proposed emission limits and/or compliance options with your staff. If you have any questions, please do not hesitate to contact me or have your staff contact Ms. Megan Goold, at 215-814-2027.

Sincerely,



Cristina Fernandez, Director  
Air Protection Division

cc: Anna Marie Wood, Office of Air Quality and Planning Standards, USEPA





# SO<sub>2</sub> Characterization Modeling Protocol for the Anne Arundel and Baltimore Counties, MD Non-Attainment Area – Rev1

**DRAFT**

Talen Energy and PurENERGY LLC

October 18, 2017

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# 1. Introduction

## 1.1 Background

The United States Environmental Protection Agency (EPA) promulgated a 1-hour National Ambient Air Quality Standard (NAAQS) for SO<sub>2</sub> in 2010. The 1-hour SO<sub>2</sub> NAAQS has a level set at 75 ppb and the form of the standard is the average of the 99<sup>th</sup> percentile of the daily maximum 1-hour average concentrations realized in each of three consecutive calendar years (the “design value,” or DV).

The EPA is implementing the 2010 1-hour SO<sub>2</sub> NAAQS in an approach that involves either a dispersion modeling or monitoring approach to characterize local SO<sub>2</sub> concentrations near isolated emission sources. EPA’s Data Requirements Rule (DRR) was finalized on August 21, 2015 and H.A. Wagner Generating Station, Brandon Shores Generating Station and C.P. Crane Generating Station were informed that they are subject to the requirements in the DRR.

Talen Energy’s H.A. Wagner Generating Station and Brandon Shores Generating Station and PurENERGY’s C.P. Crane were modeled as part of the Consent Decree Round 2 phase of the SO<sub>2</sub> characterization process. Modeling was relied upon for the characterization, although all SO<sub>2</sub> monitors in the greater Baltimore area show attainment. On July 1, 2016, based upon use of default modeling approaches, EPA designated portions of Anne Arundel and Baltimore Counties around the H. A. Wagner power plant (Wagner) as non-attainment for the SO<sub>2</sub> primary NAAQS (see Figure 1-1). Per EPA, “a non-attainment area should contain the area violating the NAAQS as well as any adjacent areas (e.g., counties or portions thereof) that contain emissions sources contributing to the violation.”<sup>1</sup> Appendix A is EPA’s Technical Support Document (TSD)<sup>2</sup> for Maryland Area Designations for the 2010 SO<sub>2</sub> NAAQS. Due to its proximity to Wagner and Brandon Shores Generating Stations, C.P. Crane Generating Station (C.P. Crane) potential-to-emit (PTE) emission rate of 3.5 lb/MMBtu for each unit, EPA included the area around C.P. Crane in the nonattainment designation as well, even including areas with monitored concentrations below the NAAQS. The locations of the large SO<sub>2</sub> sources are shown in Figure 1-2.

The Maryland Department of the Environment (MDE) is required to prepare and submit a State Implementation Plan (SIP) to EPA that demonstrates the steps taken to achieve attainment of the NAAQS throughout the nonattainment area. The SIP includes a dispersion modeling study that indicates the expected SO<sub>2</sub> emission reductions required to bring the entire NAA into attainment within 5 years after the effective date of the nonattainment designation (by September 2021). It is desirable in the case of a monitored violation for the attainment demonstration to have controls in place 1 year in advance of the 5-year deadline in order to determine the effect of the controls on the monitor. In this case, there is no monitored violation at all, and the nonattainment area is solely based upon modeling with default assumptions. However, MDE has indicated that SIP emissions inventories are developed based on calendar year. Therefore, it seems appropriate for the proposed emission limits that model attainment to be in place by January 1, 2021.

Previous modeling protocol versions had been submitted by Talen Energy and PurENERGY separately for their respective facilities, while including the other’s facilities as background sources. MDE and EPA Region 3 requested that a single modeling protocol for Wagner, Brandon Shores and C.P. Crane be provided for the Anne Arundel and Baltimore Counties non-attainment area. Talen Energy and PurENERGY have both contracted AECOM to submit this modeling protocol and a subsequent report to satisfy the EPA requirements for 1-hour SO<sub>2</sub> State Implementation Plan (SIP) modeling demonstration for the Baltimore area. This modeling protocol, which is substantially based upon the modeling conducted for Talen Energy to date, summarizes the proposed dispersion modeling procedures to characterize future

---

<sup>1</sup> EPA Memorandum – Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards – March 24, 2011.

<sup>2</sup> Docket EPA-HQ-OAR-2012-0233-0321.

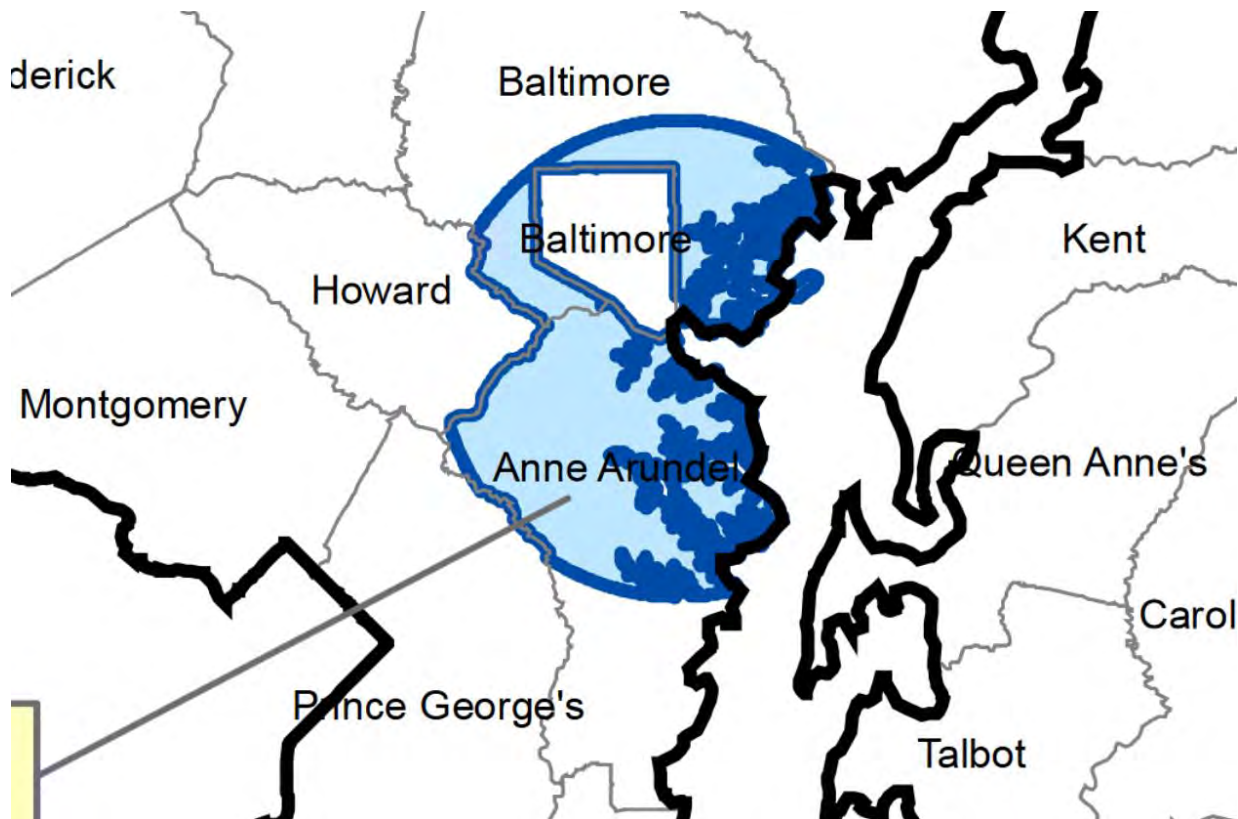
SO<sub>2</sub> concentrations for H.A. Wagner and Brandon Shores Generating Stations (also known as the Fort Smallwood Complex).

## 1.2 Document Organization

Section 2 provides a review of the ambient background monitor trends. Section 3 provides a discussion of SO<sub>2</sub> emission sources that will be included in the modeling demonstration. Section 4 outlines the modeling procedures to be used, including model options, meteorological data, receptors, and background concentrations. The initial modeling approach will be used to determine 1-hour average emission rates (EPA refers to these emission rates as “critical emissions values”) that show modeled NAAQS compliance, as discussed in Section 5.

EPA’s SIP development guidance for non-attainment areas<sup>3</sup> allows for the consideration of longer-term (e.g., 30-day) average emission rates that provide for comparable stringency with the critical emissions values. Section 6 discusses the procedures that may be used to establish longer-term average emission limits, as appropriate, for the major SO<sub>2</sub> sources in the NAA.

**Figure 1-1: Anne Arundel County and Baltimore County SO<sub>2</sub> Nonattainment Area**



Source: [https://www3.epa.gov/airquality/greenbook/map/mdso2\\_2010.pdf](https://www3.epa.gov/airquality/greenbook/map/mdso2_2010.pdf).

<sup>3</sup> Available at <http://www.epa.gov/airquality/sulfurdioxide/pdfs/20140423guidance.pdf>.



**Figure 1-2: Locations of Current and Proposed Large SO<sub>2</sub> Sources in the Baltimore Area**

## 2. Review of Ambient Background Monitoring Data

There are two SO<sub>2</sub> monitors located in the Baltimore area, the Essex monitor (#24-005-3001) located northeast of the city and Howard University's Beltsville Laboratory (HU-Beltsville) monitor located southwest of the city. The HU-Beltsville monitor (#24-033-0030) began collecting data in 2006 and the Essex monitor began collecting data in 2003.

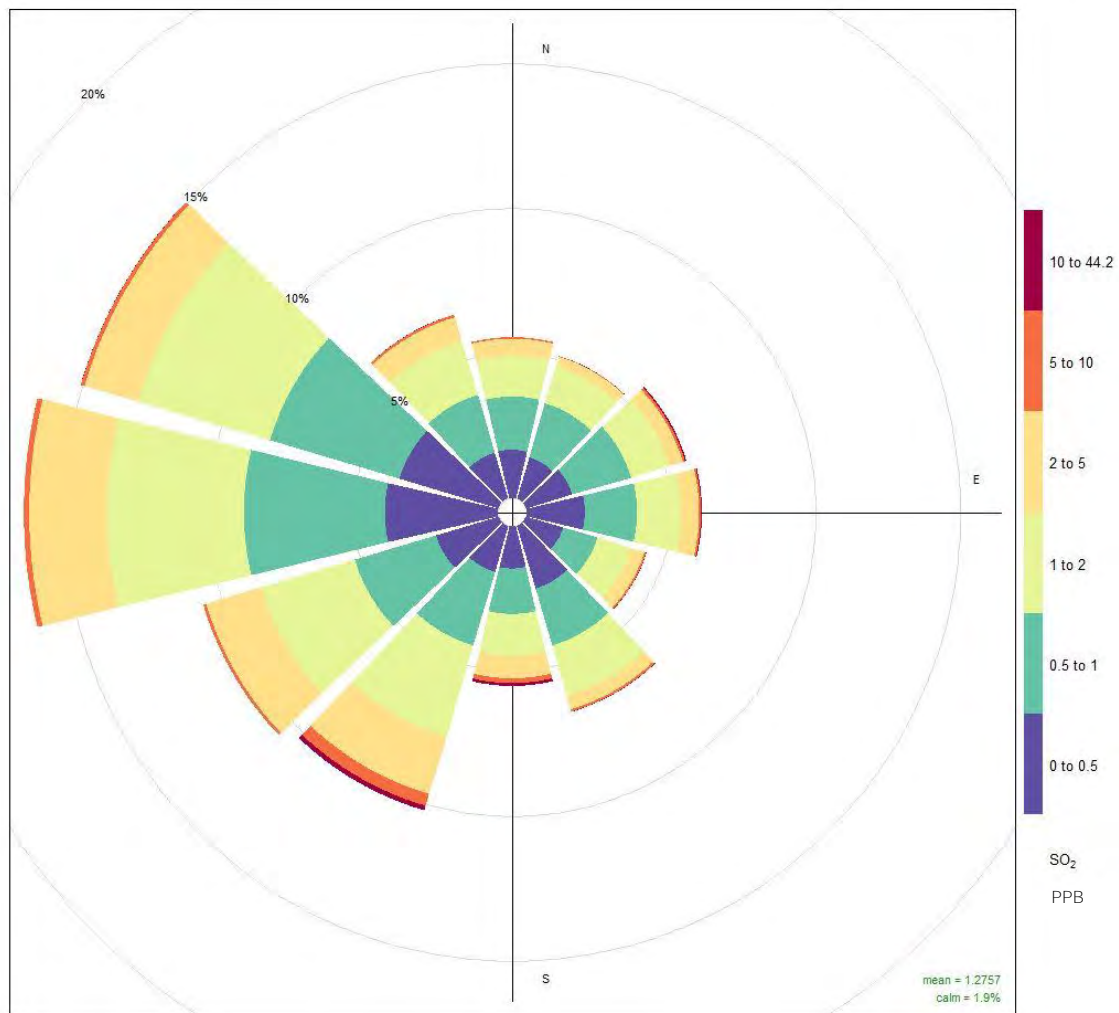
Table 2-1 shows the 1-hr SO<sub>2</sub> 99<sup>th</sup> percentiles of the daily 1-hour maximum concentrations from 2007 through 2016 for the Essex and HU-Beltsville SO<sub>2</sub> monitors. The 3-year average design values were above the then-future 1-hour NAAQS in the mid-2000's at the Essex monitor, but emissions reductions have reduced ambient monitor concentrations in the last five years and as such the design values have leveled off to approximately 25% of the 1-hour NAAQS at Essex and 12% of the NAAQS at HU-Beltsville.

**Table 2-1: 99<sup>th</sup> Percentile of the Daily 1-hour Maximum SO<sub>2</sub> Concentrations at the Essex and Beltsville Monitors**

Year	99 <sup>th</sup> Percentile of the Daily 1-hour Maximum Concentrations (ppb)		3-Year Average Design Values (ppb)	
	Essex	Beltsville	Essex	Beltsville
2007	129	34	--	--
2008	56	28	--	--
2009	54	24	79.7	28.7
2010	20	10	43.3	20.7
2011	27	12	33.7	15.3
2012	19	12	22.0	11.3
2013	21	7	22.3	10.3
2014	26	14	22.0	11.0
2015	18	8	21.7	9.7
2016	13	5	19.0	9.0

As shown in Figure 1-2, the Essex monitor is located near or downwind of all sources included in the modeling, and it is inside the nonattainment area (although the monitored concentrations are less than half of the NAAQS). Figure 2-1 shows a pollution rose for combined years 2012-2014. The wind direction data is taken from Baltimore-Washington International Airport, MD ASOS station. The predominant winds for the highest (dark red) concentrations are from the south/southwest (Fort Smallwood and Wheelabrator) and east/northeast (from C.P. Crane). As such, to avoid double-counting the SO<sub>2</sub> concentrations from the modeled sources with the regional background estimates, Talen Energy and PurENERGY propose to use the HU-Beltsville monitor when developing the ambient background concentrations to be included in this modeling analysis. The development of the background concentrations input to AERMOD is discussed in Section 4.7.



**Figure 2-1: Pollution Rose for Essex SO<sub>2</sub> Monitor for years 2014-2016**

### 3. Emission Source Inventory

#### 3.1 Sources to be Modeled

The EPA Technical Support Document (TSD; see excerpt in Appendix A) discusses SO<sub>2</sub> emission sources that were recommended by EPA to be included in the Maryland SIP modeling analysis.

Figure 1-1 shows the sources located within and near the Anne Arundel and Baltimore Counties, MD NAA. The sources include two boilers at C.P. Crane and Brandon Shores, four boilers at H.A. Wagner and an incinerator at Wheelabrator. Table 3-1 lists the sources to be modeled.

Typically, emission rates and stack parameters for the 1-hour SO<sub>2</sub> SIP modeling are held constant, similar to permit modeling, using full load conditions. However, the SO<sub>2</sub> Nonattainment Modeling Guidance does allow for some flexibility for sources that do not operate during all hours of the year or which have infrequent higher emission rates using the methodologies for rolling 30-day emission rates in Appendices B, C and D. As such, revised permitted emission rates for the units at Brandon Shores and Wagner are still to be determined, but will be included in the report in accordance with EPA's Nonattainment Modeling Guidance, using modeling procedures described in EPA's Appendix B. C.P. Crane will commit to 1-hour emission rate of 2,950 lb/hr (371.6912 g/s) as a cap for Units 1 and 2 combined. Based on EPA's National Emission Inventory (NEI) database and the inventory included in the SO<sub>2</sub> DRR, no other large stationary SO<sub>2</sub> sources (i.e. > 100 TPY) exist within 20 kilometers of the Fort Smallwood Complex.

##### 3.1.1 Brandon Shores Units

Brandon Shores Units 1 and 2 exhaust to a common stack with height and internal exit diameter as reported in Table 3-1. The average flow rate and weighted average temperature will be used in AERMOD, consistent with EPA Model Clearinghouse Memo 91-II-01.

Brandon Shores Units 1 and 2 are solid fossil fuel fired generating units with No. 2 oil used for start-up purposes. The following are descriptions of the approximate startup sequences of the units (subject to changing conditions and outcomes):

No. 2 oil ignitors are used in the boiler for approximately 16 hours, at which point main (coal) burners begin to be turned on. More coal burners are transitioned into service over the next 10 hours, approximately, at which point the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next 6 hours. All flue gases pass through the scrubber at all times; there is no bypass.

##### 3.1.2 H.A. Wagner Units

H.A. Wagner Unit 1 is a No. 6 oil or natural gas fired unit. Unit 3 is a coal fired unit with natural gas used for start-up. Unit 4 is a No. 6 oil fired unit with natural gas fired used for start-up. Wagner Unit 2 will cease burning coal and will have zero or insignificant SO<sub>2</sub> emissions by the end of June 2020 and therefore is not included as an SO<sub>2</sub> source for the modeling demonstration. The following are descriptions of the approximate startup sequences of the units (subject to changing conditions and outcomes):

Wagner Unit 1: natural gas ignitors are used in the boiler for approximately 8 hours, at which point main burners (gas or oil) are turned on and the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next hour.

Wagner Unit 3: natural gas ignitors are used in the boiler for approximately 6 hours, at which point main burners (coal) begin to be turned on. More coal burners are transitioned into service over the next 12

hours, approximately, at which point the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next four hours. Dry sorbent injection is commenced prior to achieving minimum load.

Wagner Unit 4: natural gas ignitors are used in the boiler for approximately 10 hours, at which point the main burners (oil) are turned on. More oil burners are transitioned into service over the next 8 - 10 hours, approximately, at which point, the turbine/generator becomes parallel with the grid. Minimum stable electric load is then typically achieved within the next two hours.

Future operational changes to be in place by January 2021 at Wagner include;

- Unit 1 will operate no more than 5% of the year (430 hours) on lower-sulfur (0.3%) No. 6 oil (otherwise it will fire on natural gas),
- Unit 3 will burn New Source Performance Standard (NSPS) compliant (lower-sulfur) coal,
- Implementation of a specialized sorbent is expected to improve SO<sub>2</sub> control efficiency with a dry sorbent injection system by 30% for Wagner Unit 3, and
- Unit 4 will operate no more than 5% of the year (430 hours) on lower-sulfur (0.3%) No. 6 oil,

### 3.1.3 C.P. Crane Units

C.P. Crane controls SO<sub>2</sub> emissions by means of burning lower sulfur coal than is currently permitted in tandem with a dry sorbent injection (DSI) system. For Crane, DSI has been known to decrease SO<sub>2</sub> by 5-10% depending on the quantity injected. The limit listed in Table 3-1 is based on current operations of the two units at C.P. Crane such that when either or both units are operating, they will not exceed this emission rate based on the coal currently being used by the facility.

C.P. Crane's Unit 1 had between 12 and 19 startup and shut down events per year during the 2014 to 2016 period. Startup operations lasted between 9 and 36 hours for Unit 1. During the first half of startup, the fuel type is a co-firing natural gas and coal, with the second half of startup using only coal. During the same 3-year period (2014-2016), C.P. Crane's Unit 2 had between 21 and 29 start up and shut down events per year. Unit 2 startups lasted between 5 and 24 hours, with natural gas firing only for the first half of startup and coal only for the second half of the startup period.

### 3.1.4 Intermittent Sources

Intermittent sources and transient conditions such as emergency generators, auxiliary boilers, and startup/shutdown operations will not be modeled as explained in the March 2011 EPA guidance document<sup>4</sup> for modeling 1-hour NO<sub>2</sub> and SO<sub>2</sub>. These emission sources are of insufficient duration and frequency to affect NAAQS compliance as shown in Table 3-2.

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<sup>4</sup> [http://www3.epa.gov/scram001/guidance/clarification/Additional\\_Clarifications\\_AppendixW\\_Hourly-NO2-NAAQS\\_FINAL\\_03-01-2011.pdf](http://www3.epa.gov/scram001/guidance/clarification/Additional_Clarifications_AppendixW_Hourly-NO2-NAAQS_FINAL_03-01-2011.pdf)

**Table 3-1: Emissions and Stack Parameters for Input to AERMOD**

Stack	SO <sub>2</sub> Emissions (g/s)	Stack Height (m)	Exit Diameter (m)	Exit Temperature (K)	Exit Velocity (m/s)
Crane Unit 1	371.6912	107.59	3.328	435.93	30.48
Crane Unit 2		107.59	3.330	438.77	30.48
Brandon Shores Unit 1	TBD	121.92	9.50	324.817	15.073
Brandon Shores Unit 2		121.92	9.50	324.817	14.895
Brandon Shores Merged Stack		121.92	13.470	324.817	14.984
Wagner Unit 1	TBD	87.48	3.099	419.261	48.804
Wagner Unit 3	TBD	105.46	4.215	422.220	32.059
Wagner Unit 4	TBD	104.24	6.706	577.594	21.729
Wheelabrator**	47.250	96.01	2.130	485.93	22.55
**The Wheelabrator emission rate and source parameters were provided by MDE.					

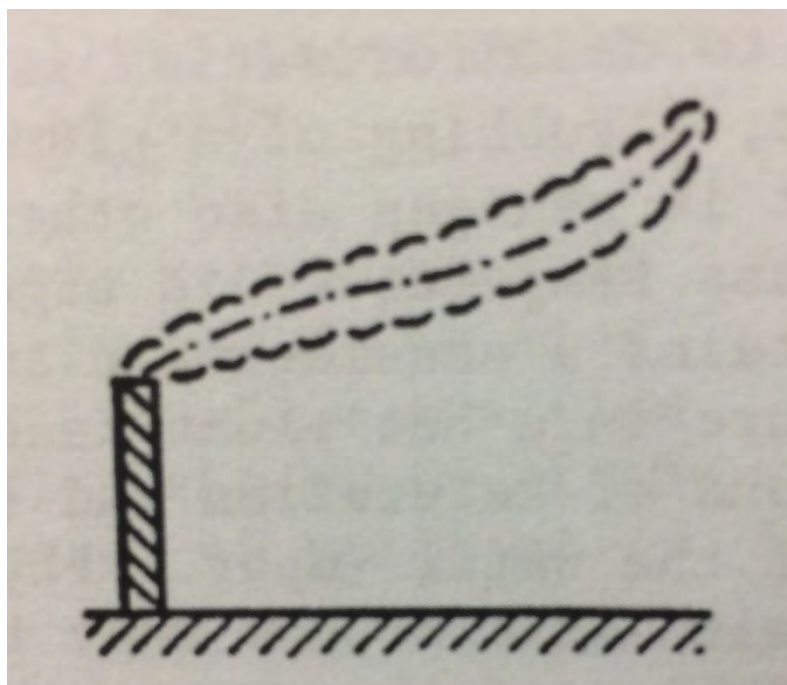
**Table 3-2 Hours of Operation for Auxiliary Sources**

Facility	Source Description	2016 Operating Hours	2016 SO <sub>2</sub> Emissions (tons)
Brandon Shores	#1 Auxiliary Boiler: Zurn (Model 18M Keystone) No. 2 oil fired boiler	6	0.0601
	#2 Auxiliary Boiler: Zurn (Model 18M Keystone) No. 2 oil fired boiler	0	0.0000
	2 Quench Pumps (500 HP diesel-fired internal combustion engine) that supply water to the flue gas desulfurization (FGD) system in emergencies	29.5	0.0010
	Emergency generator (670 HP diesel-fired internal combustion engine) to provide back-up power	5.7	0.0003
H.A. Wagner	Combustion turbine (No. 2 oil fired) used to supply "black start" capability to H.A. Wagner and for peaking operation	44.7	0.3700
Crane	#2 Auxiliary Boiler fired by No. 2 oil (ULSD) used for supplying steam rated at 25 MMBtu/hour	7	0.0280
	#3 Auxiliary Boiler fired by natural gas with No. 2 fuel (ULSD) as a back-up and used for supplying steam rated at 62.5 MMBtu/hour	0 hours Oil, 4,248 hours Gas	0.0800
	Combustion turbine rated at 14 MW (summer capability) fired by No. 2 oil (ULSD)	55	0.011
	600 HP Emergency Generator (ULSD)	7	3E-05

## 3.2 Modeling Adjustments for Stacks with Moist Plumes

Wet or dry flue-gas desulfurization (FGD) scrubbers result in a flue gas stream that is either partially or fully saturated at the flue gas temperature (normally > 100 deg. F) and pressure. Upon discharge to the atmosphere, water vapor in the flue gas stream condenses to form water droplets, with a corresponding release of (latent) heat of condensation. This heat release acts to make the plume gases warmer and gives the plume a higher buoyant vertical velocity and the plume trajectory is often seen to have an upward trajectory a short distance downwind (see Figures 3-1 and 3-2). A small effect on plume behavior occurs as the droplets eventually evaporate on mixing (i.e., a cooling effect), but this effect occurs near final rise and it is accounted for in the moist plume modeling, IBJpluris, that is described below. The largest net rise is realized for the situation where the ambient air itself is near saturation. The discussion in Appendix B describes how this effect is modeled in AERMOD with the use of an hourly emissions file for each moist plume stack (as listed in Table 3-2, each with an effective hourly stack temperature that is higher than the actual stack temperature). This modeling approach may be applied to the Brandon Shores' sources listed in Table 3-1. Appendix C includes a document from EPA Region 4 discussing the use of source characterization techniques such as this that EPA did not consider to be a non-guideline option, thus it was not subject to the Appendix W, Section 3.2.2 alternative model evaluation criteria. Appendix D contains a supporting technical paper about AERMOIST and IBJpluris which has been published in the peer-reviewed journal *Atmospheric Environment*<sup>5</sup>. A justification package to support the use of AERMOIST for this modeling application was previously provided as a separate submittal where each facility was addressed. EPA is currently reviewing AERMOIST and has asked for additional documentation. Due to the likely delay in obtaining EPA approval of AERMOIST, the current modeling will not use this approach. Future modeling of the facility will consider AERMOIST if EPA approves it for general use.

**Figure 3-1: Conceptual Image of Moist Plume Rise**



Reference: Figure 2 from Schatzmann, M. and A.J. Policastro, 1983. Accounting for Moisture Effects in the Prediction of Buoyant Plumes. In *Air Pollution Modeling and Its Applications II*, pp 825-839. Plenum Press, New York.

<sup>5</sup> Paine, Robert; Warren, Laura L.; Moore, Gary E. 2016. Source Characterization Refinements for Routine Modeling Applications. *Atmospheric Environment* 129, 55-67.

**Figure 3-2: Example of Moist Plume Trajectory Lifting Due to Condensation**





## 4. Proposed Modeling Procedures

### 4.1 Dispersion Model Selection

This modeling analysis will utilize the most recent version of the AERMOD dispersion model (Version 16216r) to evaluate air quality impacts from the emission sources of interest. The AERMOD modeling system consists of two preprocessors and the dispersion model. AERMET is the meteorological preprocessor component and AERMAP is the terrain pre-processor component that characterizes the terrain and generates receptor elevations along with critical hill heights for those receptors. Table 4-1 summarizes the versions of AERMOD and its preprocessors.

**Table 4-1: Versions of AERMOD and Its Preprocessors to be Used in Modeling Demonstration**

Dispersion Model and Preprocessors	Version No.
AERMOD	16216r
AERMET	16216
AERMINUTE	15272
AERSURFACE	13016
BPIP-PRIME	04274
AERMAP	11103

### 4.2 Land Use Classification

One of the factors affecting input parameters to dispersion models is the presence of either rural or urban conditions near the source site and the meteorological site(s). The choice of rural or urban for dispersion conditions at the source site depends upon the land use characteristics within 3 kilometers of the facility being modeled (Appendix W to 40 CFR Part 51)<sup>6</sup>. Factors that affect the rural/urban choice, and thus the dispersion, include the extent of vegetated surface area, the water surface area, types of industry and commerce, and building types and heights within this area.

#### 4.2.1 Land Use Analysis for the Fort Smallwood Complex

An objective analysis using the Auer Method was conducted using ArcGIS to extract the land use categories within a 3 km radius centered on the Fort Smallwood Complex using the digitized 2011 NLCD data. Figure 4-1 shows the land categories within 3 km of the Fort Smallwood Complex. EPA mentions in their comment that for sites that have over 50% of the land use categorized as water, this could skew the analysis and lead to an improper “rural” designation. Table 4-2 shows that 39.7% of the land use within the 3 km radius consists of open water, which is below the 50% threshold. The land types defined as rural under the Auer Land Use Method is approximately 85%.

In addition, the land use surrounding the Fort Smallwood Complex was examined while ignoring the areas classified as water. This secondary analysis yields approximately 75% of the land cover as rural, still well above the 50% criteria threshold (shown in Table 4-3).

For these reasons and historically MDE has modeled the Fort Smallwood Complex as rural, we conclude that the designation of rural is appropriate for the modeling of the Fort Smallwood Complex for this application.

<sup>6</sup> EPA's Guideline on Air Quality Models, available at [https://www3.epa.gov/ttn/scram/appendix\\_w/2016/AppendixW\\_2017.pdf](https://www3.epa.gov/ttn/scram/appendix_w/2016/AppendixW_2017.pdf).

**Table 4-2: Land Use Analysis with 2011 NLCD for Fort Smallwood Complex**

Ft. Smallwood Study Area Auer's Analysis				Ft. Smallwood 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	3,006	9.54%	15.02%
24	Developed, High Intensity	I1/I2/C1		1,726	5.48%	
11	Open Water	A5	Rural	12,501	39.67%	84.98%
21	Developed, Open Space	A1/R4		3,051	9.68%	
22	Developed, Low Intensity	R1		4,350	13.80%	
31	Barren Land (Rock/Sand/Clay)	A3		13	0.04%	
41	Deciduous Forest	A4		2,721	8.63%	
42	Evergreen Forest	A4		245	0.78%	
43	Mixed Forest	A4		1,184	3.76%	
52	Shrub/Scrub	A4		142	0.45%	
71	Grassland/Herbaceous	A3		0	0.00%	
81	Pasture/Hay	A3		0	0.00%	
82	Cultivated Crops	A2		78	0.25%	
90	Wood Wetlands	A4		2,092	6.64%	
95	Emergent Herbaceous Wetlands	A3		404	1.28%	
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			Total	31,513	100.00%	100.00%

**Table 4-3: Land Use Analysis with 2011 NLCD for Fort Smallwood Complex (Water Removed)**

Ft. Smallwood Study Area Auer's Analysis				Ft. Smallwood 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	3,006	15.81%	24.89%
24	Developed, High Intensity	I1/I2/C1		1,726	9.08%	
11	Open Water (ignored in analysis)	A5	Rural	NA	NA	75.11%
21	Developed, Open Space	A1/R4		3,051	16.05%	
22	Developed, Low Intensity	R1		4,350	22.88%	
31	Barren Land (Rock/Sand/Clay)	A3		13	0.07%	
41	Deciduous Forest	A4		2,721	14.31%	
42	Evergreen Forest	A4		245	1.29%	
43	Mixed Forest	A4		1,184	6.23%	
52	Shrub/Scrub	A4		142	0.75%	
71	Grassland/Herbaceous	A3		0	0.00%	
81	Pasture/Hay	A3		0	0.00%	
82	Cultivated Crops	A2		78	0.41%	
90	Wood Wetlands	A4		2,092	11.00%	
95	Emergent Herbaceous Wetlands	A3		404	2.12%	
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			Total	19,012	100.00%	100.00%



#### 4.2.2 Land Use Analysis for C.P. Crane

An objective analysis using the Auer Method was conducted using ArcGIS to extract the land use categories within a 3 km radius centered on C.P. Crane using the digitized 2011 NLCD data. Figure 4-2 shows the land categories within 3 km of C.P. Crane. EPA mentions in their comment that for sites that have over 50% of the land use categorized as water, this could skew the analysis and lead to an improper “rural” designation. Table 4-4 shows that 39.7% of the land use within the 3 km radius consists of open water, which is below the 50% threshold. The land types defined as rural under the Auer Land Use Method is approximately 85%.

In addition, the land use surrounding C.P. Crane was examined while ignoring the areas classified as water. This secondary analysis yields approximately 75% of the land cover as rural, still well above the 50% criteria threshold (shown in Table 4-5).

For these reasons and because MDE has previously modeled C.P. Crane as rural, we conclude that the designation of rural is appropriate for the modeling of the C.P. Crane for this application.

**Table 4-4: Land Use Analysis with 2011 NLCD for C.P. Crane**

Crane Study Area Auer's Analysis				Crane 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	789	2.50%	2.94%
24	Developed, High Intensity	I1/I2/C1		139	0.44%	
11	Open Water	A5	Rural	14,328	45.46%	97.06%
21	Developed, Open Space	A1/R4		2,618	8.31%	
22	Developed, Low Intensity	R1		1,943	6.17%	
31	Barren Land (Rock/Sand/Clay)	A3		15	0.05%	
41	Deciduous Forest	A4		2,073	6.58%	
42	Evergreen Forest	A4		44	0.14%	
43	Mixed Forest	A4		1,379	4.38%	
52	Shrub/Scrub	A4		412	1.31%	
71	Grassland/Herbaceous	A3		84	0.27%	
81	Pasture/Hay	A3		37	0.12%	
82	Cultivated Crops	A2		841	2.67%	
90	Wood Wetlands	A4		3,203	10.16%	
95	Emergent Herbaceous Wetlands	A3		3,611	11.46%	
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			<b>Total</b>	<b>31,516</b>	<b>100.00%</b>	<b>100.00%</b>

**Table 4-5: Land Use Analysis with 2011 NLCD for C.P. Crane (Water Removed)**

Crane Study Area Auer's Analysis				Crane 3km Ring		
NLCD Value	NLCD 2011 Description	Auer's Code	Auer's Class	Cell Count	Percentage	Totals
23	Developed, Medium Intensity	R2/R3	Urban	789	4.59%	5.40%
24	Developed, High Intensity	I1/I2/C1		139	0.81%	
11	Open Water (ignored in analysis)	A5	Rural	NA	NA	94.60%
21	Developed, Open Space	A1/R4		2,618	15.23%	
22	Developed, Low Intensity	R1		1,943	11.30%	
31	Barren Land (Rock/Sand/Clay)	A3		15	0.09%	
41	Deciduous Forest	A4		2,073	12.06%	
42	Evergreen Forest	A4		44	0.26%	
43	Mixed Forest	A4		1,379	8.02%	
52	Shrub/Scrub	A4		412	2.40%	
71	Grassland/Herbaceous	A3		84	0.49%	
81	Pasture/Hay	A3		37	0.22%	
82	Cultivated Crops	A2		841	4.89%	
90	Wood Wetlands	A4		3,203	18.64%	
95	Emergent Herbaceous Wetlands	A3		3,611	21.01%	
Analysis based on 30 meter by 30 meter raster cells extracted for each area.			<b>Total</b>	<b>17,188</b>	<b>100.00%</b>	<b>100.00%</b>

### 4.3 Good Engineering Practice (GEP) Analysis

Federal stack height regulations limit the stack height used in performing dispersion modeling to predict the air quality impact of a source. Sources must be modeled at the actual physical stack height unless that height exceeds the Good Engineering Practice (GEP) formula stack height. If the physical stack height is less than the formula GEP height, the potential for the source's plume to be affected by aerodynamic wakes created by the building(s) must be evaluated in the dispersion modeling analysis.

A GEP formula stack height analysis has been performed for sources of interest located at the Brandon Shores, Wagner, C.P. Crane Generating Stations, and Wheelabrator in accordance with the EPA's "Guideline for Determination of Good Engineering Practice Stack Height" (EPA, 1985)<sup>7</sup>. A GEP stack height is defined as the greater of 65 meters (213 feet), measured from the ground elevation of the stack, or the formula height ( $H_g$ ), as determined from the following equation:

$$H_g = H_B + 1.5 L$$

where

$H_B$  is the height of the nearby structure which maximizes  $H_g$ , and

$L$  is the lesser dimension (height or projected width) of the building ( $H_B$ ).

For a squat structure, i.e., height less than projected width, the formula reduces to:

$$H_g = 2.5H_B.$$

In the absence of influencing structures, a "default" GEP stack height is credited up to 65 meters (213 feet). Both the height and the width of the building are determined through a vertical cross-section perpendicular to the wind direction. In all instances, the GEP formula height is based upon the highest value of  $H_g$  as determined from  $H$  and  $L$  over all nearby buildings over the entire range of possible wind directions. For the purposes of determining the GEP formula height, only buildings within  $5L$  of the source of interest are considered. The stacks to be included in the modeling demonstration and their commission dates are presented in Table 4-6.

**Table 4-6: Stack Commission Dates**

Facility	Stack	Commission Date
<b>C.P. Crane</b>	Unit 1	July 1961
	Unit 2	February 1963
<b>Brandon Shores</b>	Dual-flue FGD Units 1 & 2	2010
<b>H.A. Wagner</b>	Unit 1	February 1956
	Unit 2	January 1959
	Unit 3	August 1966
	Unit 4	August 1972
<b>Wheelabrator</b>	Incinerator	1985

The GEP analyses will be conducted with the latest version of the US EPA's Building Profile Input Program software (BPIP-PRIME version 04274). The locations and dimensions of the buildings/structures relative to the exhaust stacks for Brandon Shores, Wagner, C.P. Crane Generating Stations, and Wheelabrator are depicted in Figures 4-3 through 4-6. Building heights and the base elevations of buildings and stacks will be updated from previous modeling based on 2004 and 2014

<sup>7</sup> Available at <http://www.epa.gov/scram001/guidance/guide/gep.pdf>.

USGS LIDAR data<sup>8</sup> and confirmed with Google Earth Pro (shown in Figures 4-7 and 4-9) for the Fort Smallwood Complex and Wheelabrator. 3D representations of the buildings and stacks as output from BPIP-PRIME are shown in Figures 4-10 and 4-12. Historical LIDAR data are not available for the area near C.P. Crane, likely due to its proximity to Aberdeen Proving Ground.

## 4.4 Meteorological Data Processing

The meteorological data required for input to AERMOD will be created with the latest version of AERMET (16216) using the adjusted u<sub>\*</sub> option. This option is now a default option per the recently promulgated Appendix W. Hourly surface observations from Baltimore-Washington International Airport, MD along with concurrent upper air data from Sterling, VA will be used as input to AERMET with both 1-minute and 5-minute wind speed and direction data incorporated in AERMET Stage 2. The surface data (wind direction, wind speed, temperature, sky cover, and relative humidity) is measured 10 m above ground level<sup>9</sup>. The location of the anemometer in decimal degrees is 39.1733°N 76.6841°W. A wind rose for 2012-2016 is shown in Figure 4-13.

AERMET creates two output files for input to AERMOD:

- **SURFACE:** a file with boundary layer parameters such as sensible heat flux, surface friction velocity, convective velocity scale, vertical potential temperature gradient in the 500-meter layer above the planetary boundary layer, and convective and mechanical mixing heights. Also provided are values of Monin-Obukhov length, surface roughness, albedo, Bowen ratio, wind speed, wind direction, temperature, and heights at which measurements were taken.
- **PROFILE:** a file containing multi-level meteorological data with wind speed, wind direction, temperature, sigma-theta ( $\sigma_\theta$ ) and sigma-w ( $\sigma_w$ ) when such data are available. For this application involving representative data from the nearest NWS station, the profile file contained a single level of wind data and the temperature data.

AERMET requires specification of site characteristics including surface roughness ( $z_o$ ), albedo ( $r$ ), and Bowen ratio ( $B_o$ ). These parameters will be developed according to the guidance provided by US EPA in the recently revised AERMOD Implementation Guide<sup>10</sup> (AIG).

The AIG provides the following recommendations for determining the site characteristics:

1. The determination of the surface roughness length should be based on an inverse distance weighted geometric mean for a default upwind distance of 1 kilometer relative to the measurement site. Surface roughness length may be varied by sector to account for variations in land cover near the measurement site; however, the sector widths should be no smaller than 30 degrees.
2. The determination of the Bowen ratio should be based on a simple un-weighted geometric mean (i.e., no direction or distance dependency) for a representative domain, with a default domain defined by a 10-km by 10-km region centered on the measurement site.
3. The determination of the albedo should be based on a simple un-weighted arithmetic mean (i.e., no direction or distance dependency) for the same representative domain as defined for Bowen ratio, with a default domain defined by a 10-km by 10-km region centered on the measurement site.

The AIG recommends that the surface characteristics be determined based on digitized land cover data. EPA has developed a tool called AERSURFACE that can be used to determine the site characteristics based on digitized land cover data in accordance with the recommendations from the AIG discussed

<sup>8</sup> <http://earthexplorer.usgs.gov/> under Digital Elevation/LIDAR.

<sup>9</sup> Anemometer height obtained from National Weather Service ASOS Implementation site.

<http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

<sup>10</sup> Available at [https://www3.epa.gov/ttn/scram/7thconf/aermod/aermod\\_implmntn\\_guide\\_3August2015.pdf](https://www3.epa.gov/ttn/scram/7thconf/aermod/aermod_implmntn_guide_3August2015.pdf).

above. AERSURFACE<sup>11</sup> incorporates look-up tables of representative surface characteristic values by land cover category and seasonal category. AERSURFACE will be applied with the instructions provided in the AERSURFACE User's Guide.

At the direction of the reviewing agencies, a sensitivity analysis was conducted to determine the representativeness of the BWI airport surface characteristics to those at C.P. Crane and Fort Smallwood. To determine the representativeness of the BWI airport site for surface characteristics in comparison to the area surrounding Fort Smallwood, AERSURFACE was applied for a single 1-km sector around three sites (C.P. Crane, Fort Smallwood and BWI airport) using average moisture conditions. The results of the three AERSURFACE runs are presented in Table 4-7. Table 4-7 shows that the albedo values are very similar between the three sites. There is some variation in the Bowen ratios and surface roughness at the different sites. The surface roughness values are all relatively low (less than 0.16 meters), with BWI having a surface roughness value between C.P. Crane and Fort Smallwood.

Based on results of the sensitivity analysis, we propose using monthly surface roughness and albedo from the BWI airport, with the Bowen ratio from Fort Smallwood. The annual values for comparison between the three sites are highlighted blue in Table 4-7.

**Table 4-7: AERSURFACE Land Use Comparison**

Site	Annual Average Land Use		
	Albedo	Bowen Ratio	Z <sub>0</sub> (m)
BWI Airport	0.16	0.76	0.051
C.P. Crane	0.13	0.22	0.024
Fort Smallwood	0.13	0.33	0.157

The current version of AERSURFACE (Version 13016) supports the use of land cover data from the USGS National Land Cover Data 1992 archives<sup>12</sup> (NLCD92). The NLCD92 archive provides data at a spatial resolution of 30 meters based upon a 21-category classification scheme applied over the continental U.S. The AIG recommends that the surface characteristics be determined based on the land use surrounding the site where the surface meteorological data were collected.

As recommended in the AIG for surface roughness, the 1-km radius circular area centered at the meteorological station site can be divided into sectors for the analysis; the default 12 sectors will be used for this analysis.

In AERSURFACE, the various land cover categories are linked to a set of seasonal surface characteristics. As such, AERSURFACE requires specification of the seasonal category for each month of the year. The following five seasonal categories are supported by AERSURFACE, with the applicable months of the year specified for this site.

1. Midsummer with lush vegetation (June-August).
2. Autumn with un-harvested cropland (September- November).
3. Late autumn after frost and harvest, or winter with no snow (December - February)
4. Winter with continuous snow on ground (none).
5. Transitional spring with partial green coverage or short annuals (March - May).

<sup>11</sup> Documentation available at [http://www.epa.gov/ttn/scram/dispersion\\_related.htm#aersurface](http://www.epa.gov/ttn/scram/dispersion_related.htm#aersurface).

<sup>12</sup> See additional information at <http://landcover.usgs.gov/natl/landcover.php>.

AECOM reviewed snow cover data<sup>13</sup> for BWI during the 2012-2016 period to determine if any winter month had snow cover for more than half of the days in the month. BWI reported only eight non-consecutive days with snow depth in January 2014 (26% of the month), and seven consecutive days in February 2014 (25% of the month). During 2015, however, February had 14 occurrences of days with snow depth qualifying this month to be characterized as “winter with continuous snow on ground”. Therefore, a separate AERSURFACE run was conducted to account for this month of snow for 2015. The two runs were then concatenated together to represent each month’s characterization correctly.

For Bowen ratio, the land use values are linked to three categories of surface moisture corresponding to average, wet, and dry conditions. The surface moisture condition for the site may vary depending on the meteorological data period for which the surface characteristics will be applied. AERSURFACE applies the surface moisture condition for the entire data period. Therefore, if the surface moisture condition varies significantly across the data period, then AERSURFACE can be applied multiple times to account for those variations.

As such, the surface moisture condition for each season will be determined by comparing precipitation for the period of data to be processed to the 30-year climatological record, selecting “wet” conditions if precipitation is in the upper 30<sup>th</sup>-percentile, “dry” conditions if precipitation is in the lower 30<sup>th</sup>-percentile, and “average” conditions if precipitation is in the middle 40<sup>th</sup>-percentile. The 30-year precipitation data set to be used in this modeling will be taken from the National Climatic Data Center<sup>14</sup>.

The monthly designations of surface moisture that will be input to AERSURFACE are summarized in Table 4-8.

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<sup>13</sup> <http://www.ncdc.noaa.gov/snow-and-ice/daily-snow/>

<sup>14</sup> <http://www.ncdc.noaa.gov/cdo-web/>

**Table 4-8: AERSURFACE Bowen Ratio Condition Designations**

Month	Bowen Ratio Category				
	2012	2013	2014	2015	2016
January	Dry	Average	Average	Wet	Average
February	Average	Dry	Wet	Average	Wet
March	Dry	Average	Average	Average	Dry
April	Dry	Dry	Wet	Wet	Dry
May	Dry	Average	Average	Dry	Wet
June	Average	Wet	Average	Wet	Average
July	Average	Dry	Average	Average	Wet
August	Wet	Dry	Wet	Dry	Average
September	Dry	Dry	Average	Average	Average
October	Wet	Wet	Average	Average	Dry
November	Dry	Average	Average	Average	Dry
December	Average	Wet	Average	Wet	Average

## 4.5 Receptors to be Modeled

Receptors are placed in nested Cartesian grids centered on the Fort Smallwood Complex and C.P. Crane with the following spacing:

- Every 25 meters along the ambient boundary,
- Every 100 meters out to a distance of 15 km, and
- Every 500 meters between 15 and 25 km.

The current version of AERMAP has the ability to process USGS National Elevation Dataset (NED) data in place of Digital Elevation Model files. The appropriate file for 1-arc-second, or 30-m, NED data will be obtained from the Multi-Resolution Land Characteristics Consortium (MRLC) link at <https://viewer.nationalmap.gov/viewer/>. The receptor grid is shown in Figures 4-14, 4-15 and 4-16.

In the unlikely case that the peak concentration might occur beyond 25 km, then additional receptors beyond the 25-km distance will be added as appropriate. The results from this receptor grid will be included in the model assessment report to the agency reviewers.

Receptors will not be placed on Talen Energy property that is not accessible to the public. Public access is restricted along the property boundary for the H.A. Wagner and Brandon Shores Power Plants by: 1) a physical fence (including gates) as denoted by the yellow lines in Figure 4-17 and 2) no trespassing signs along the orange lines in Figure 4-17 that extends the immediate waters alongside the fuel unloading pier.

Receptors will not be placed on C.P. Crane property that is not accessible to the public. Public access is restricted along the property boundary for the C.P. Crane Generating Station by: 1) a physical fence (including gates) as denoted by the yellow lines in Figure 4-18 and 2) a retaining wall prevents public vessels from entering the nearby waters of C.P. Crane as denoted by the light green line in Figure 4-18. A close-up photo taken just offshore shows the retaining wall from a different angle in Figure 4-19.

With multiple sources included as part of the proposed modeling demonstration, an analysis will be performed to ensure there are no NAAQS violations occurring within the ambient air boundary at Fort



Smallwood Complex from C.P. Crane sources and within C.P. Crane's ambient air boundary from sources at the Fort Smallwood Complex. To accomplish this, receptors will be placed on C.P. Crane's property and all modeled sources (excluding C.P. Crane stacks) will be modeled at these receptors to ensure there is not a NAAQS violation. Additionally, receptors will be placed on Fort Smallwood's property and all modeled sources (excluding Brandon Shores and H.A. Wagner stacks) will be modeled at these receptors to ensure there is not a NAAQS violation.

## 4.6 Model Configurations and Options

AERMET (version 16216) and AERMOD (version 16216r) will be run with the updated "ADJ\_U\*" option in AERMET and the DEFAULT option in AERMOD to use the ADJ\_U\* meteorological data. Appendix W states, "EPA is adopting the proposed ADJ\_U\* option in AERMET as a regulatory option for the use in AERMOD for sources using standard NWS airport meteorological data, site-specific meteorological data without turbulence parameters, or prognostic meteorological inputs derived from prognostic meteorological models." For this modeling demonstration, standard NWS airport meteorological data from the Baltimore-Washington International (BWI) Airport and the ADJ\_U\* option is appropriate.

## 4.7 Background Concentrations

The HU-Beltsville, MD monitor (Site #24-033-0030), which is located about 33 km to the southwest of the Fort Smallwood Complex and 52 km southwest of C.P. Crane, in Prince Georges County, will be used to determine the uniform regional background component for the NAAQS SO<sub>2</sub> modeling. EPA's March 2011 clarification memo<sup>15</sup> regarding 1-hour SO<sub>2</sub> NAAQS modeling allows for an approach using the 99<sup>th</sup> percentile monitored values whereby the background values vary by season and by hour of the day. AECOM will apply this approach to its modeling, using data from the 3-year period of 2014 – 2016 to be added to the three years of modeled concentrations. The SO<sub>2</sub> concentrations that will be used are listed in Table 4-9. Figure 4-20 shows a plot of the hourly background values by season and hour.

According to the EPA's "Table 5c Monitoring Site Listing for Sulfur Dioxide 1-Hour NAAQS" ([https://www.epa.gov/sites/production/files/2016-07/so2\\_designvalues\\_20132015\\_final\\_07\\_29\\_16.xlsx](https://www.epa.gov/sites/production/files/2016-07/so2_designvalues_20132015_final_07_29_16.xlsx)), the completeness criteria for 2014 through 2016 (Column W) is satisfied, therefore, the HU-Beltsville 1-hour SO<sub>2</sub> monitoring data is complete and is acceptable to use in the modeling.

One direction sector that is unique to the Fort Smallwood site involves winds generally from the east (upwind sector from 70 to 130 degrees), for which the upwind fetch involves approximately 20 kilometers over open water, and then at least 10 additional km of no large SO<sub>2</sub> sources on the eastern shore of the Chesapeake Bay before reaching Fort Smallwood. For this sector only, AECOM will include a sector-dependent background concentration, as described in EPA's September 2014 Clarification Memo<sup>16</sup>. The AERMOD User's Guide Addendum<sup>17</sup> states that such sectors should be 60 degrees or more (a warning will be issued for sectors less than 60 degrees).

AECOM reviewed SO<sub>2</sub> monitoring data at the Horn Point ambient monitor in Dorchester County for when wind directions at the Horn Point anemometer are between 70° and 130° (a visual of this sector is shown in Figure 4-21). A 3-year (2014-2016) 99<sup>th</sup> percentile design value from Horn Point will be used in place of the HU-Beltsville monitoring data for this defined sector. The Horn Point design 3-year design value during this period will be calculated using only hours when winds at this monitor were between 70° and 130°. This yields a preliminary design value of 2.5 ppb. AECOM will use this value (2.5 ppb) for the overwater sector, with the Beltsville monitor hour-of-day/seasonal values used for all other directions.

<sup>15</sup> Available at [http://www.epa.gov/ttn/scram/guidance/clarification/Additional\\_Clarifications\\_AppendixW\\_Hourly-NO2-NAAQS\\_FINAL\\_03-01-2011.pdf](http://www.epa.gov/ttn/scram/guidance/clarification/Additional_Clarifications_AppendixW_Hourly-NO2-NAAQS_FINAL_03-01-2011.pdf).

<sup>16</sup> [http://www3.epa.gov/scram001/guidance/clarification/NO2\\_Clarification\\_Memo-20140930.pdf](http://www3.epa.gov/scram001/guidance/clarification/NO2_Clarification_Memo-20140930.pdf)

<sup>17</sup> [http://www.epa.gov/ttn/scram/models/aermod/aermod\\_userguide.zip](http://www.epa.gov/ttn/scram/models/aermod/aermod_userguide.zip)

The 2014-2016 ambient SO<sub>2</sub> background measurement data were obtained from EPA's Air Quality System Data Mart (AQSDM)<sup>18</sup>.

The final background input file to be read by AERMOD will be hourly. The hourly values will use the 3-year averaged seasonal numbers from HU-Beltsville. For hours when the wind from BWI was between 70° and 130°, the 3-year design value (2.5 ppb) from Horn Point as discussed above will be substituted in for those hours.

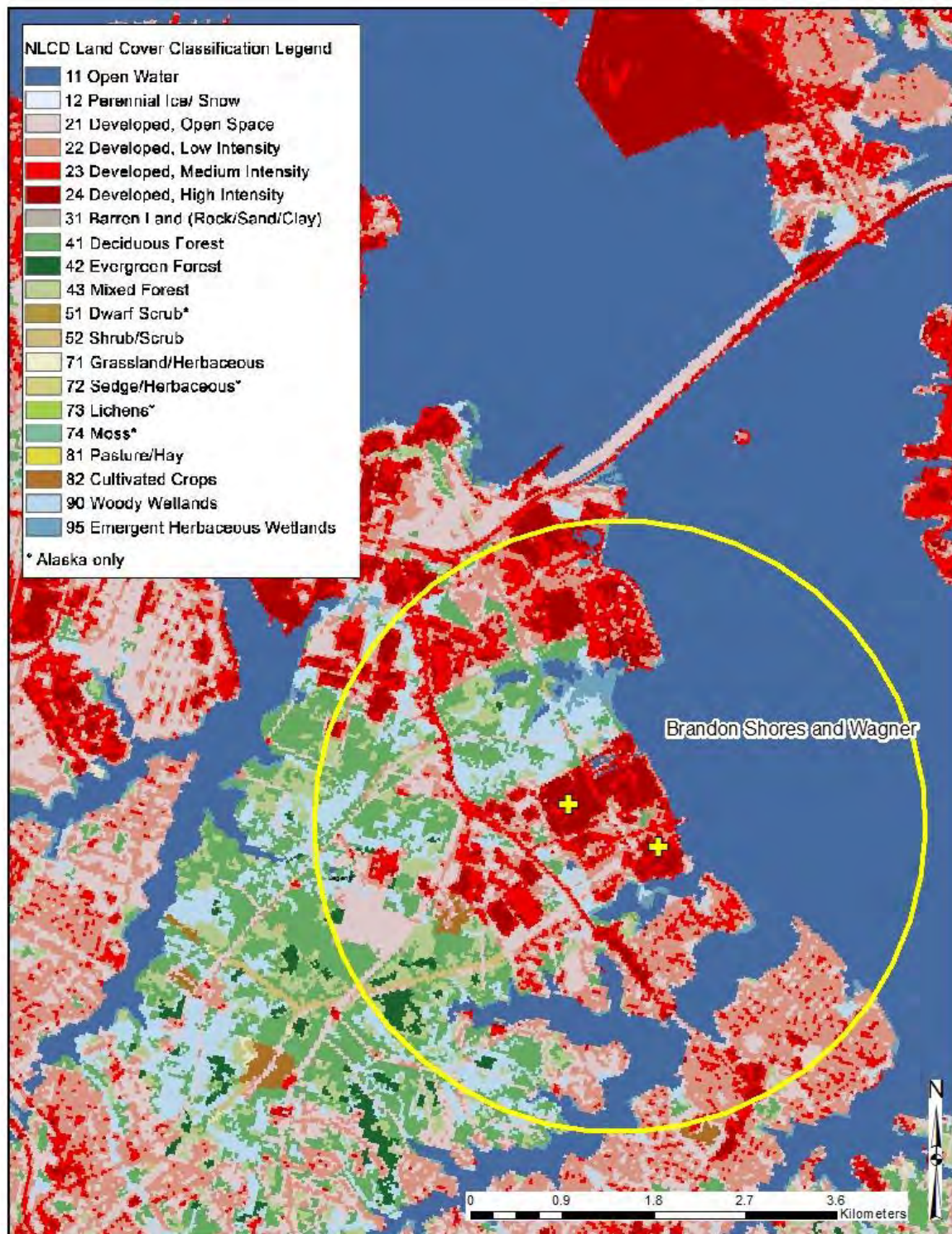
**Table 4-9: 1-hr SO<sub>2</sub> Ambient Background Concentrations for Beltsville Monitor (2014-2016)**

Hour	3-Year Averaged Hourly Values for Winter (µg/m <sup>3</sup> )	3-Year Averaged Hourly Values for Spring (µg/m <sup>3</sup> )	3-Year Averaged Hourly Values for Summer (µg/m <sup>3</sup> )	3-Year Averaged Hourly Values for Fall (µg/m <sup>3</sup> )
1	6.72	3.49	1.40	4.02
2	5.41	4.54	1.57	2.88
3	9.26	4.98	1.31	2.18
4	8.12	4.45	1.31	2.27
5	8.03	4.54	1.57	2.53
6	9.61	3.93	1.66	2.27
7	9.34	4.37	3.41	2.36
8	9.43	4.45	5.76	4.02
9	9.78	6.55	5.85	7.07
10	12.75	6.20	6.46	7.34
11	12.31	7.25	8.56	6.29
12	13.62	10.31	6.03	8.38
13	12.05	9.96	3.93	9.00
14	13.01	9.43	3.23	7.51
15	10.74	7.95	2.36	5.85
16	11.53	8.82	2.62	4.72
17	10.65	5.50	2.18	5.58
18	9.61	4.80	2.71	4.80
19	8.65	4.10	1.57	3.93
20	12.66	7.07	1.48	2.88
21	9.08	5.76	1.75	2.97
22	8.73	6.29	1.48	3.14
23	7.42	4.98	1.40	3.93
24	6.81	3.58	1.75	4.63

<sup>18</sup> Air Quality System Data Mart. [https://aqs.epa.gov/aqsweb/documents/data\\_mart\\_welcome.html](https://aqs.epa.gov/aqsweb/documents/data_mart_welcome.html)

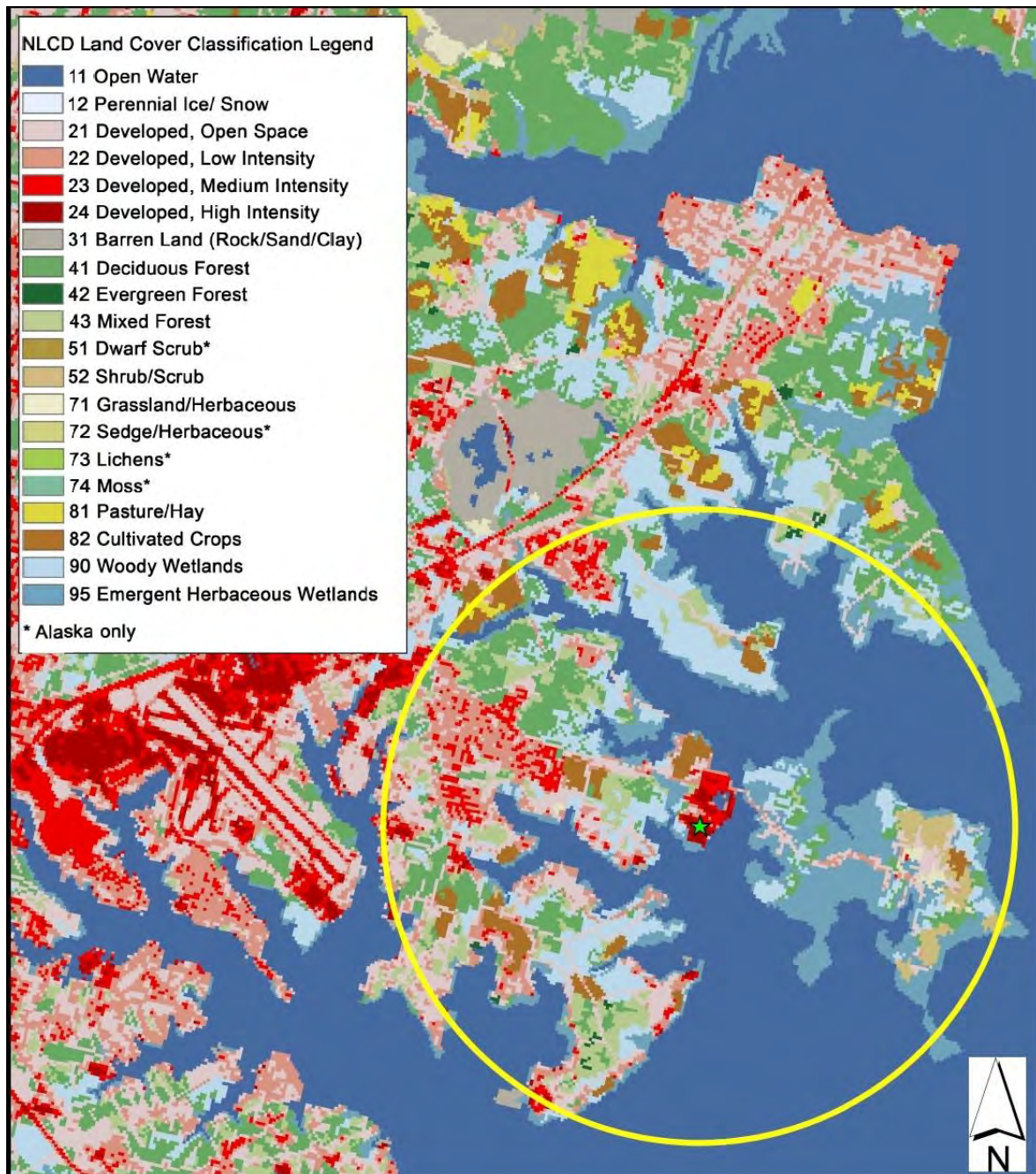


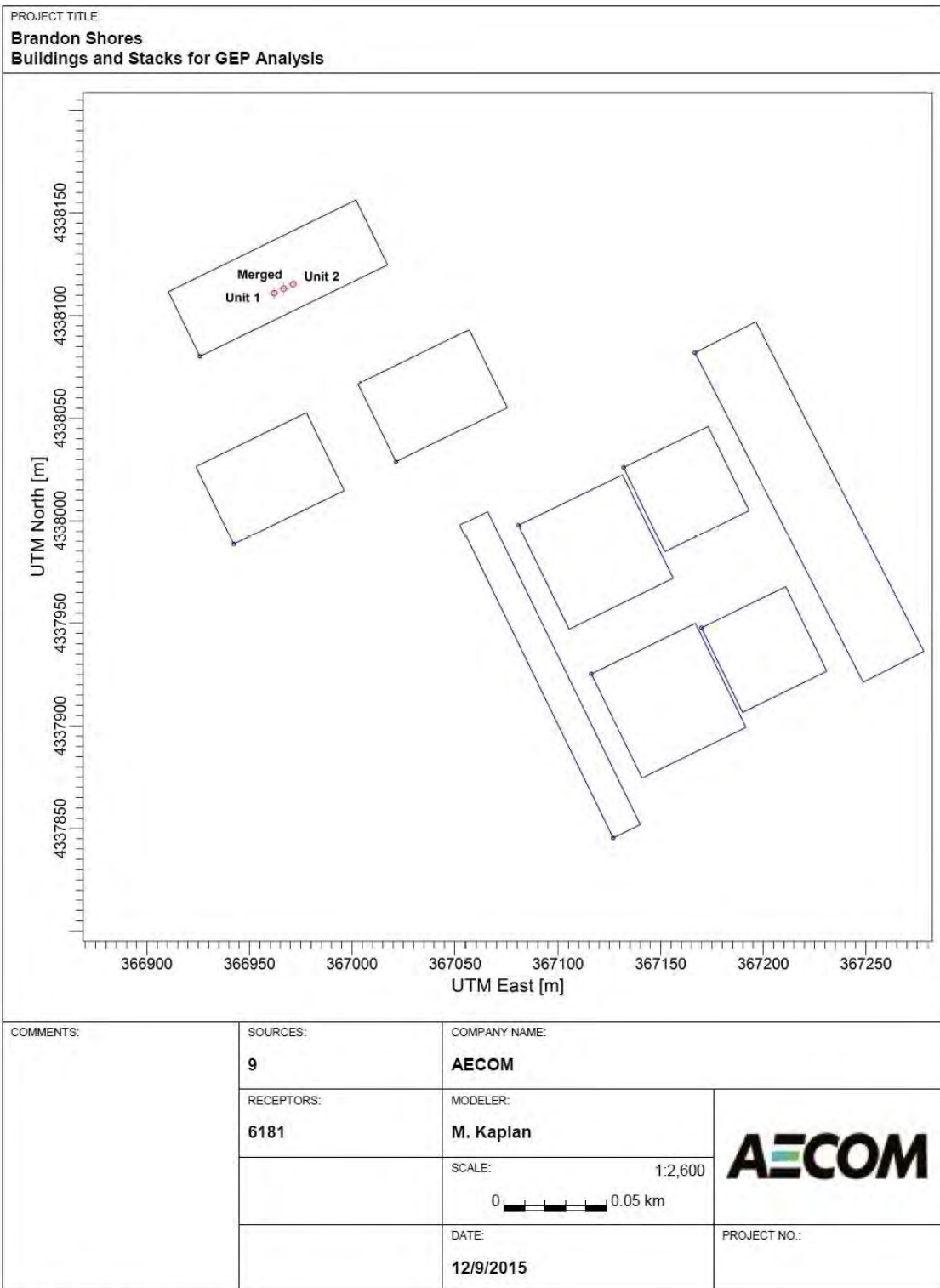
**Figure 4-1: 2011 National Land Cover Database (NLCD) within 3 km of the Fort Smallwood Complex**

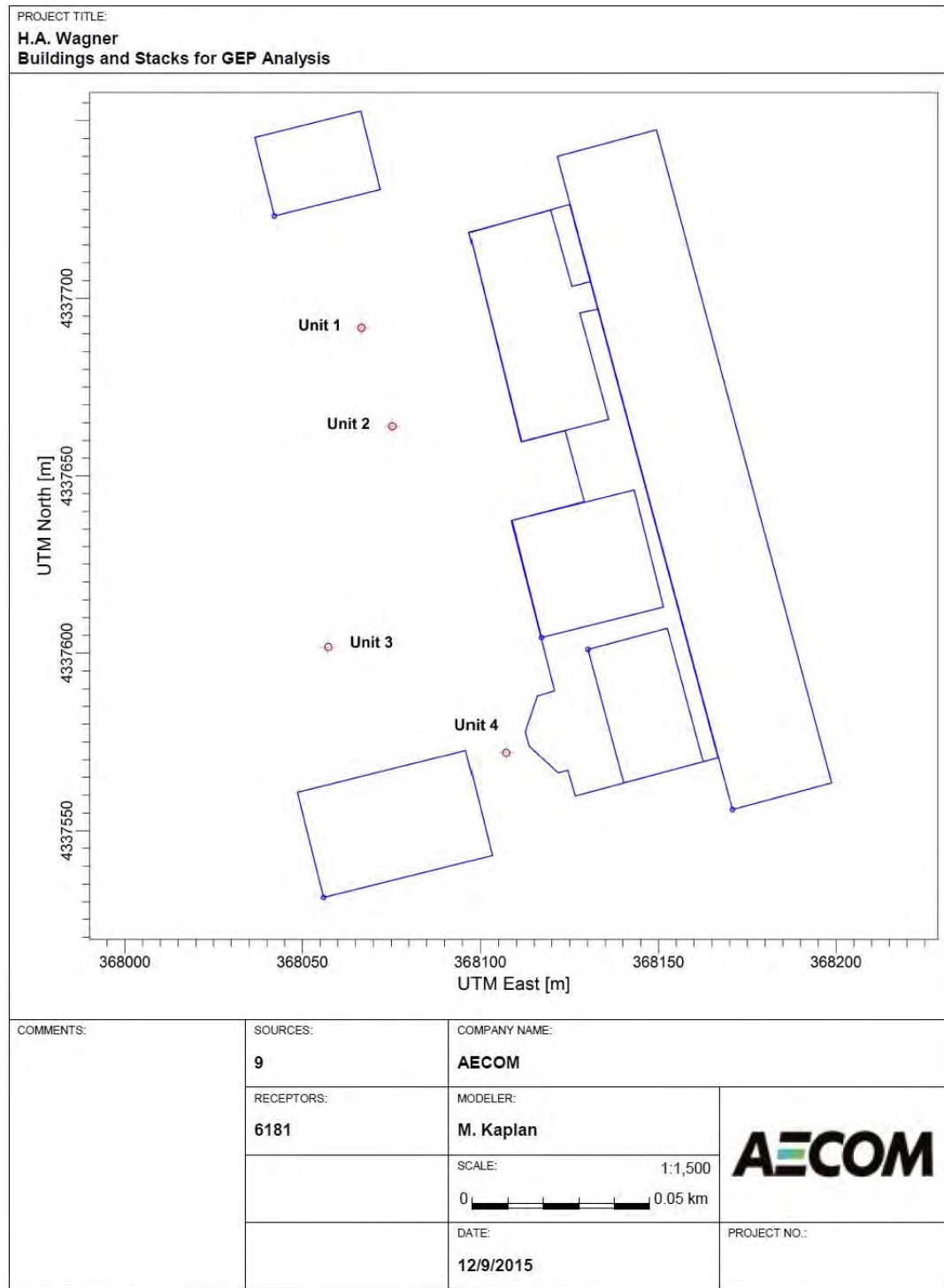


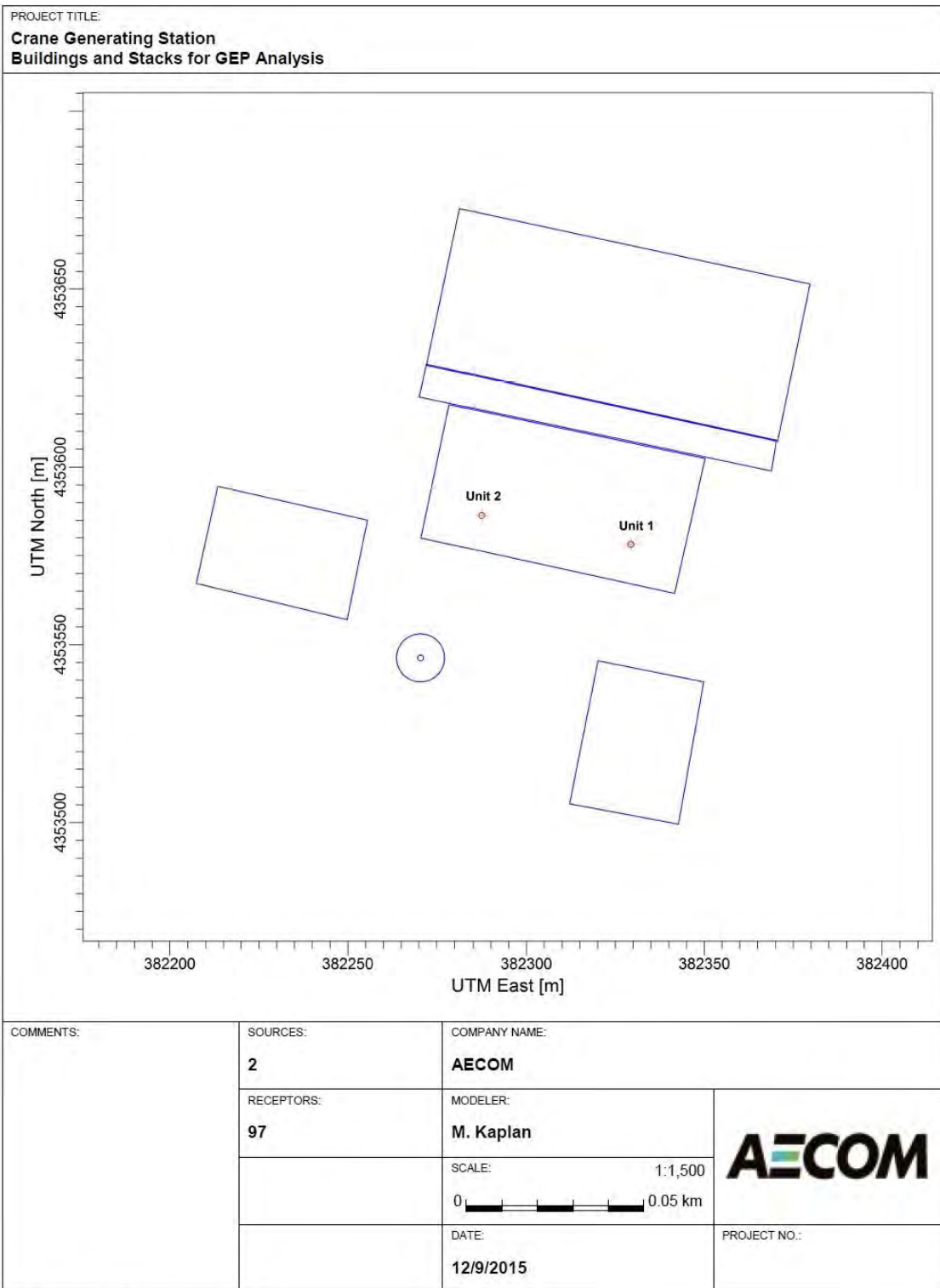


**Figure 4-2: 2011 Land Cover Classification within 3 Kilometers of Crane Generating Station**



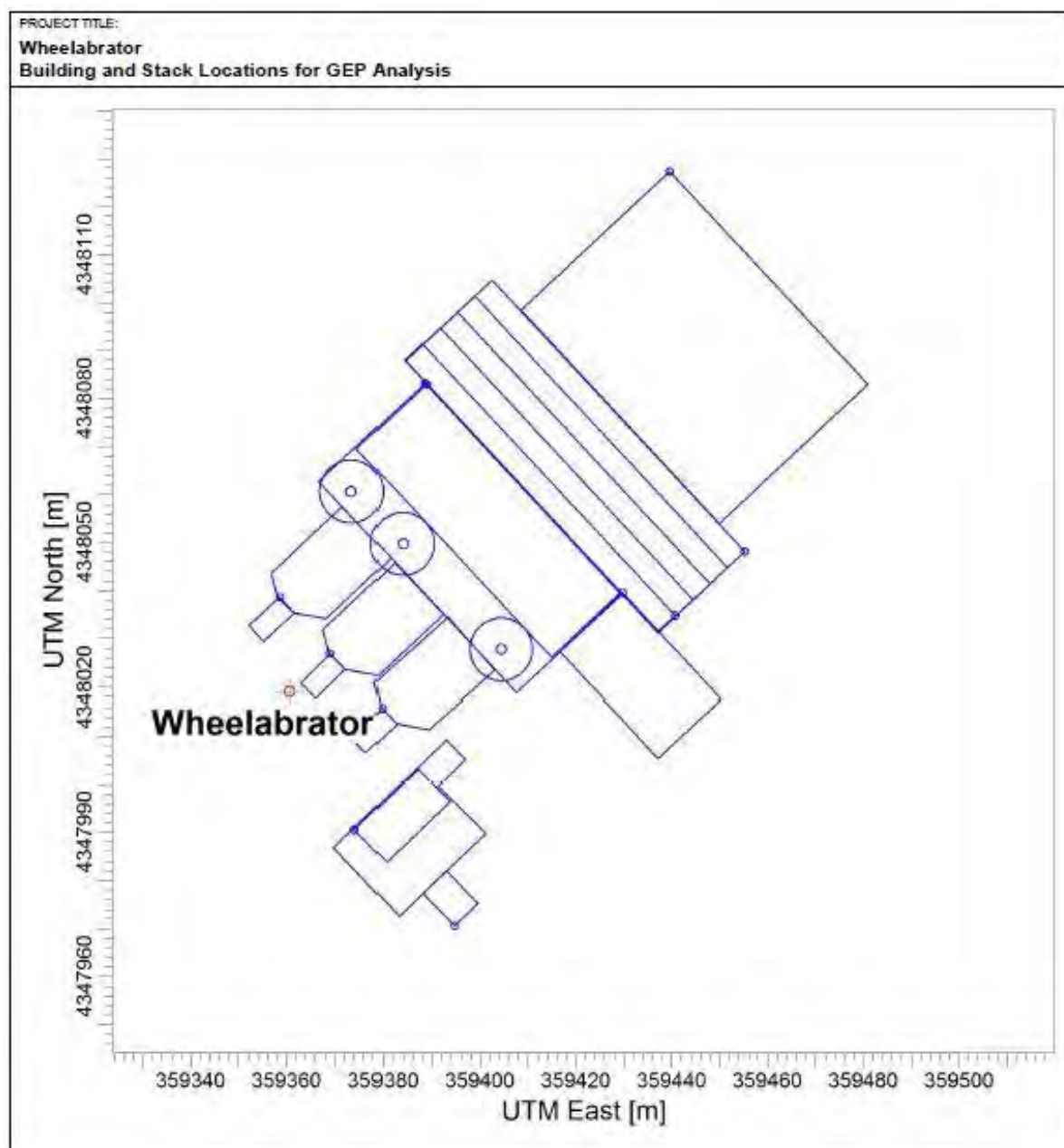
**Figure 4-3: Stacks and Buildings Used in the GEP Analysis for Brandon Shores**

**Figure 4-4: Stacks and Buildings Used in the GEP Analysis for H.A. Wagner**

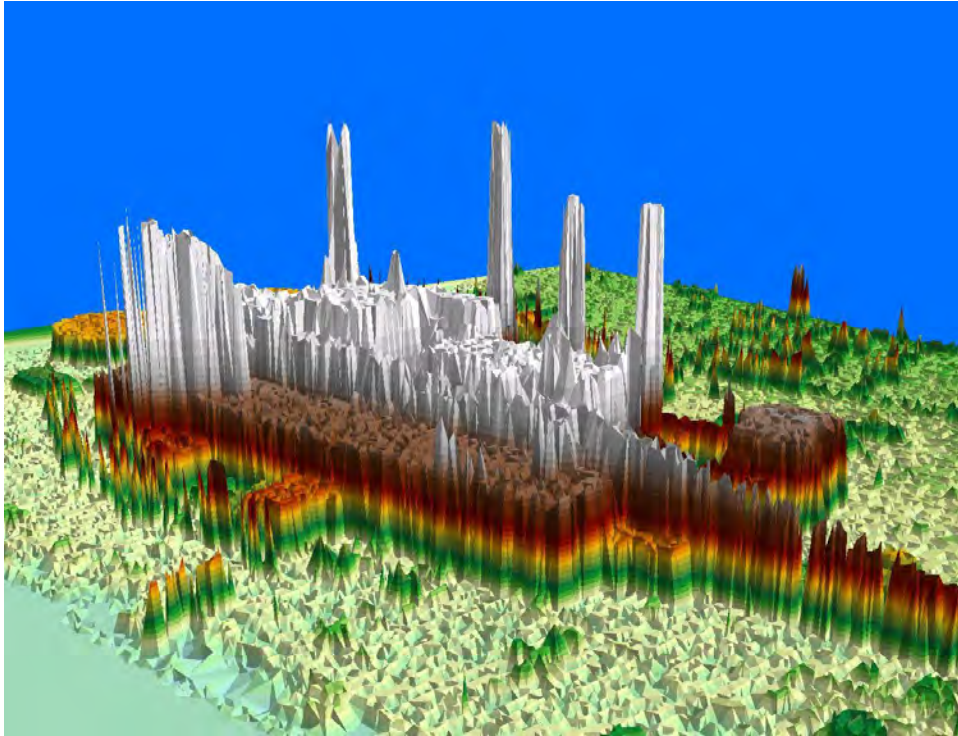
**Figure 4-5: Stacks and Buildings Used in the GEP Analysis for Crane Generating Station**



**Figure 4-6: Stacks and Buildings Used in the GEP Analysis for Wheelabrator-Baltimore**



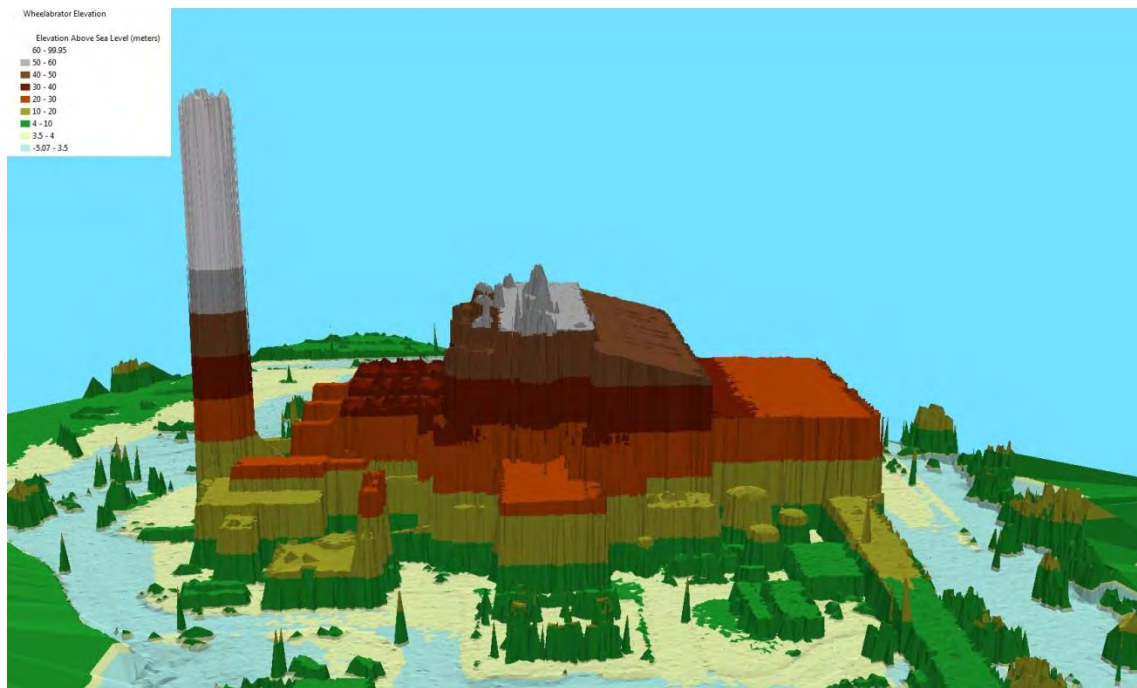
**Figure 4-7: USGS LIDAR Data for Wagner Station**



**Figure 4-8: USGS LIDAR Data for Brandon Shores**



**Figure 4-9: USGS LIDAR Data for Wheelabrator-Baltimore**



**Figure 4-10: 3D View of Brandon Shores and Wagner Buildings and Stacks**





**Figure 4-11: 3D View of Crane Buildings and Stacks**



**Figure 4-12: 3D View of Wheelabrator-Baltimore Buildings and Stack**

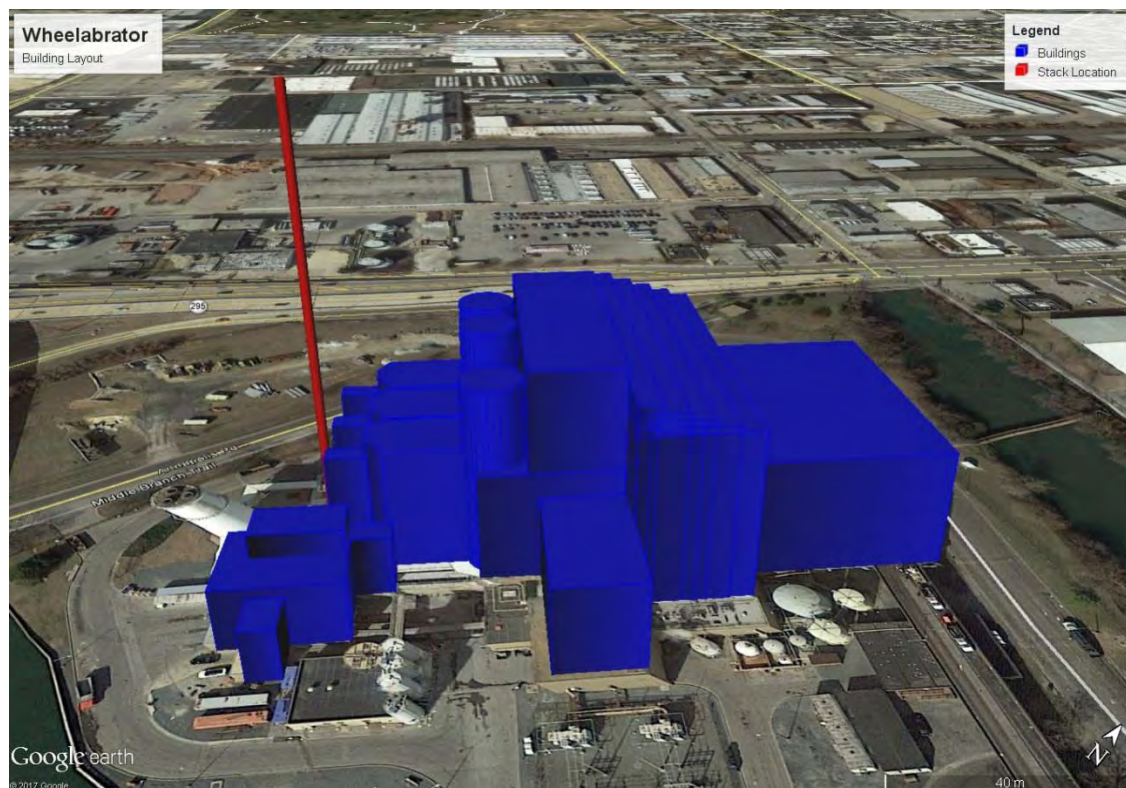
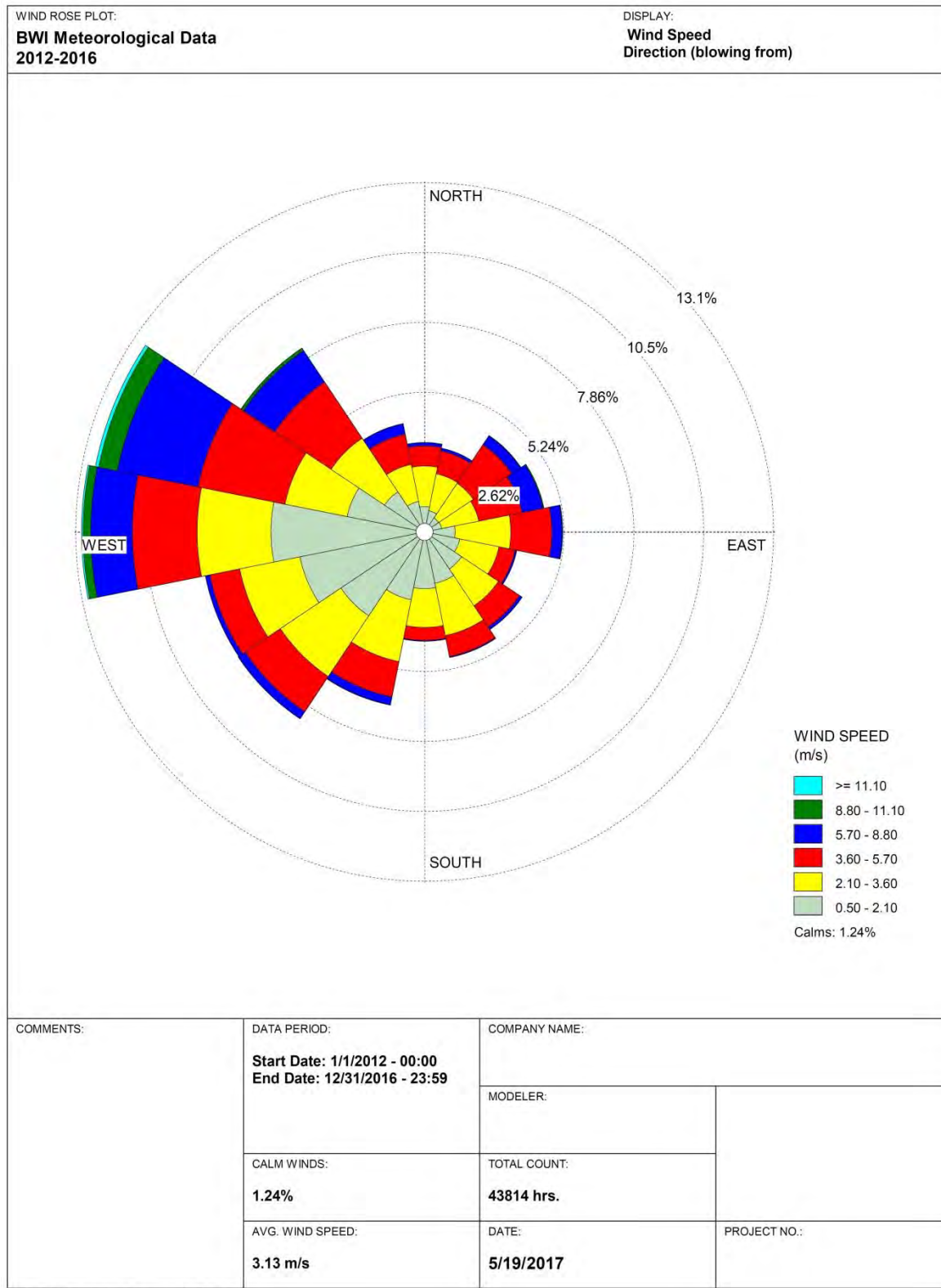
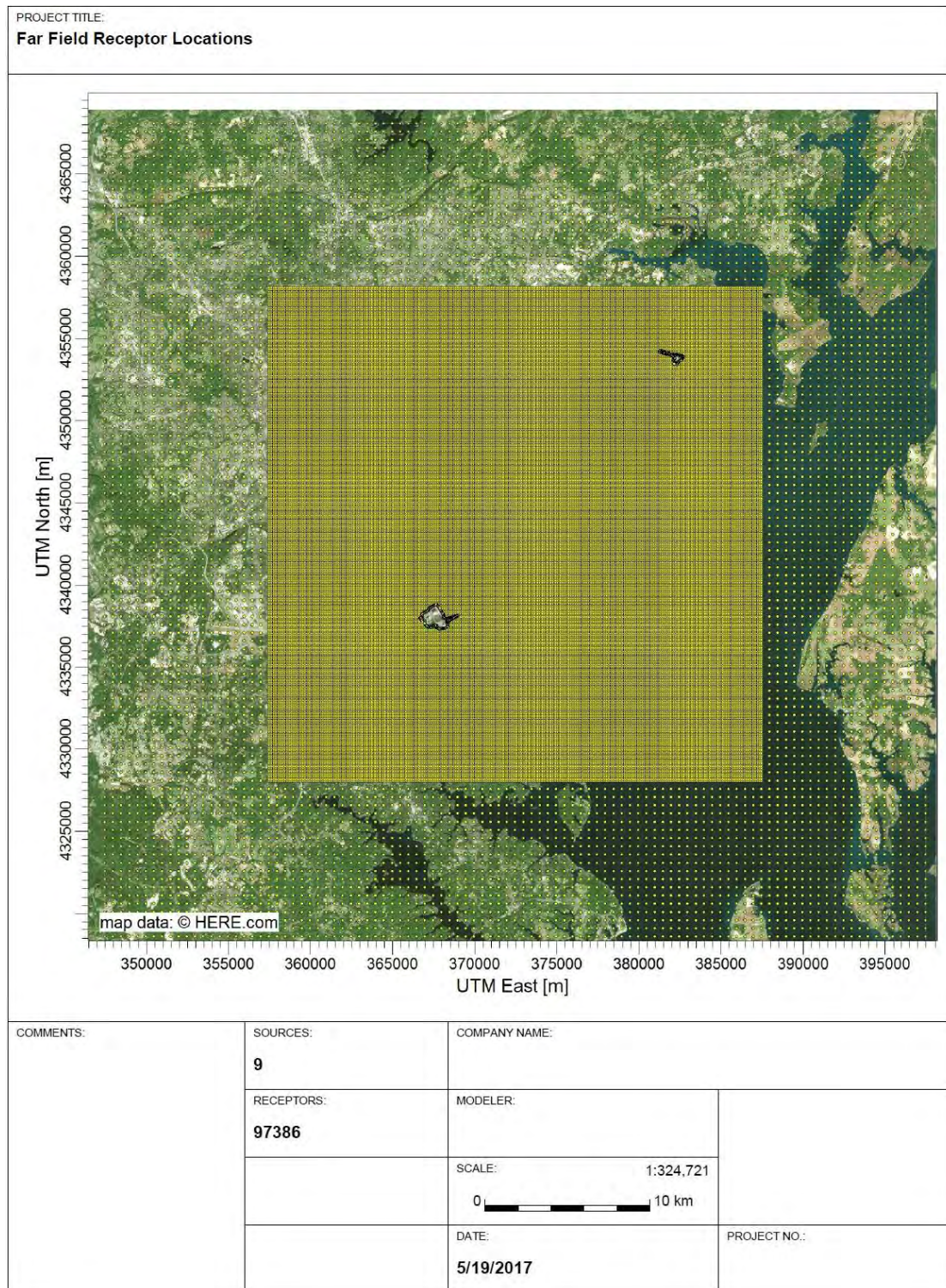


Figure 4-13: BWI Airport 5-Year (2012-2016) Wind Rose

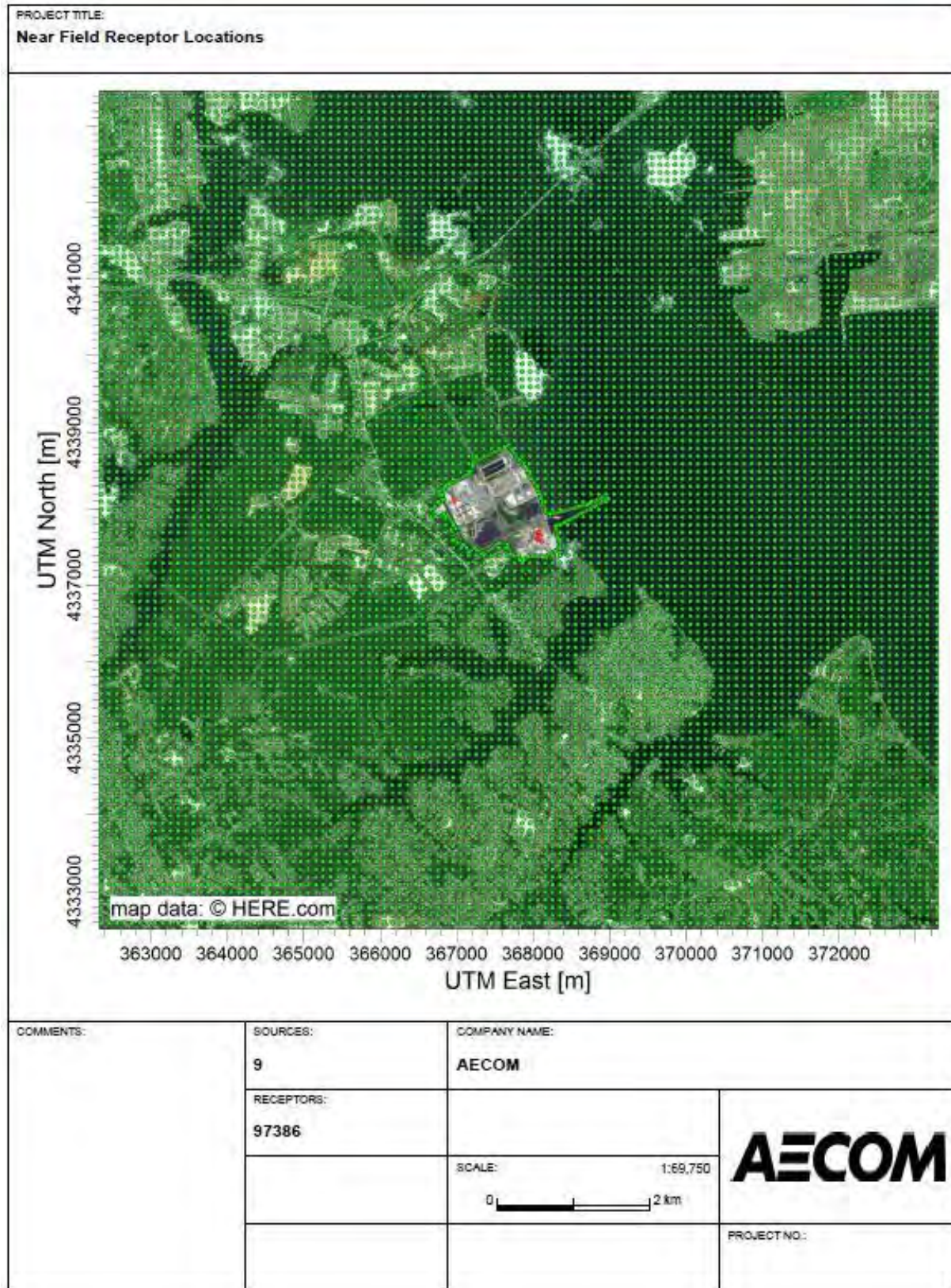




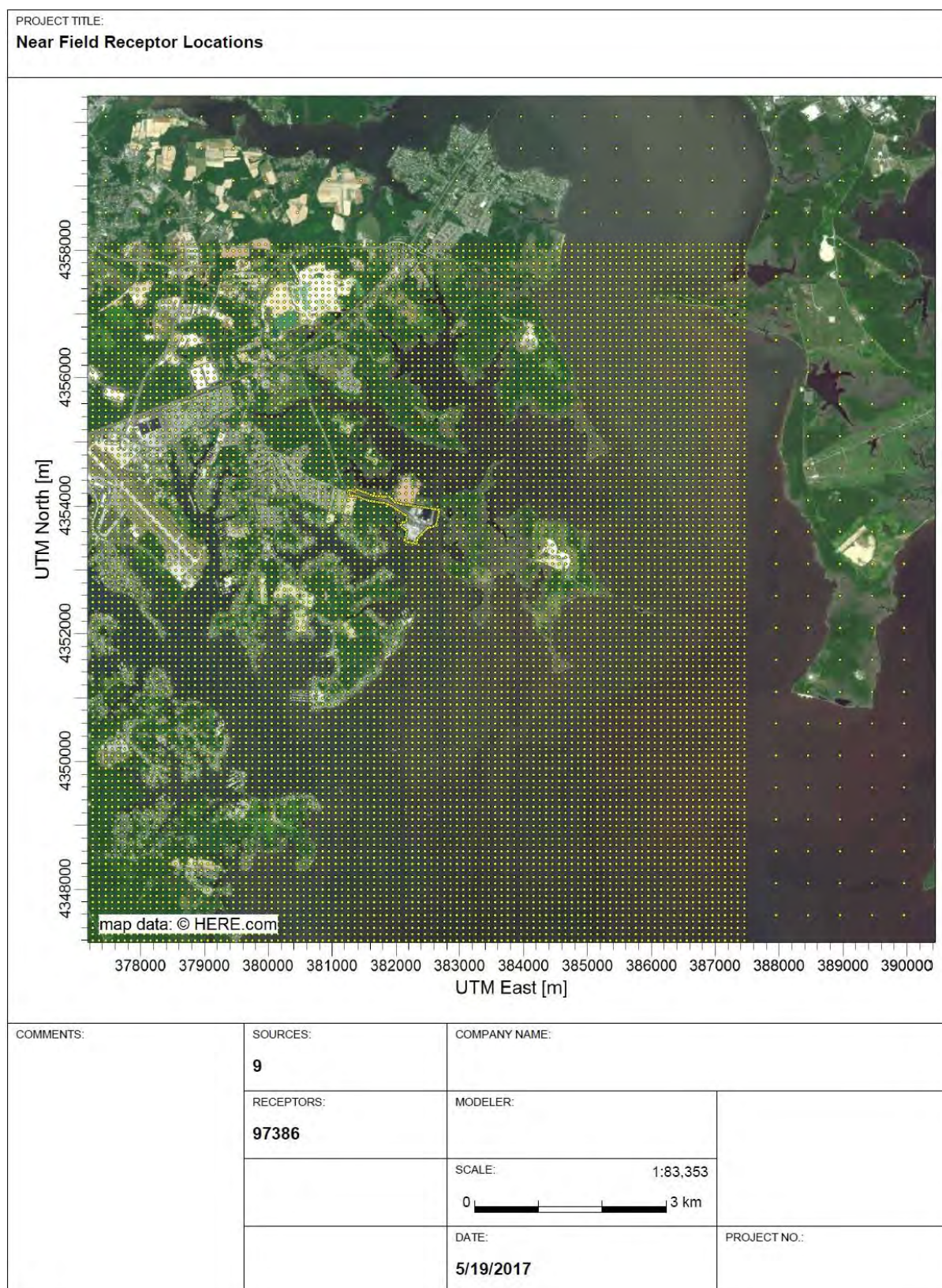
**Figure 4-14: Far field Receptor Locations for Modeling**



**Figure 4-15: Near Field Receptor Locations for Modeling – Fort Smallwood Complex**





**Figure 4-16: Near Field Receptor Locations for Modeling – C.P. Crane****Figure 4-17: Location of the Fence and Fence Line Receptors for Fort Smallwood Complex**



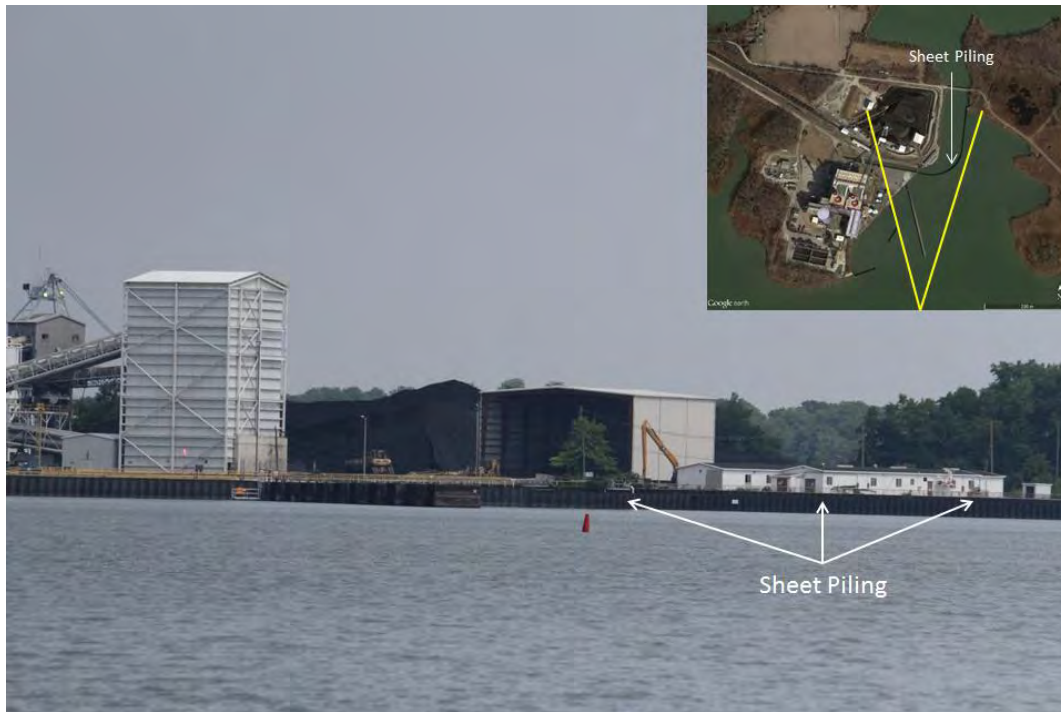


**Figure 4-18: Location of the Fence and Fence Line Receptors for C.P. Crane**

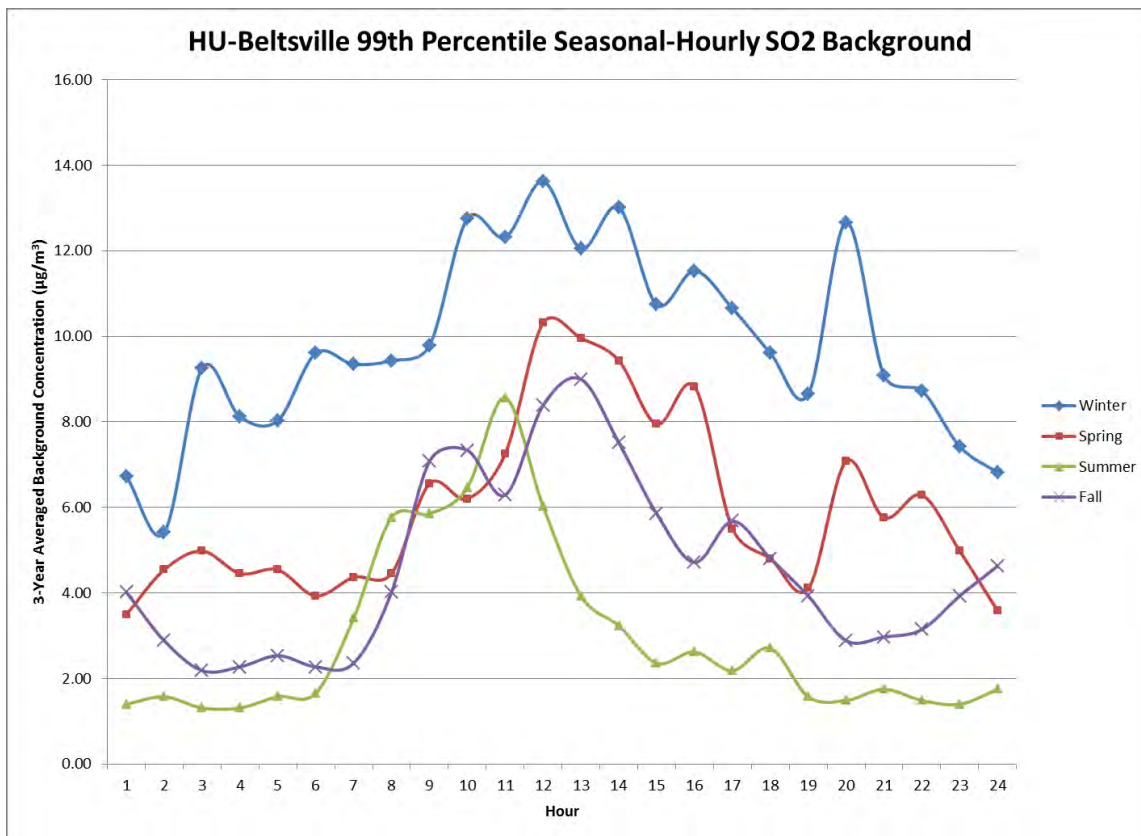




**Figure 4-19: On the Water View of the Sheet Piling**

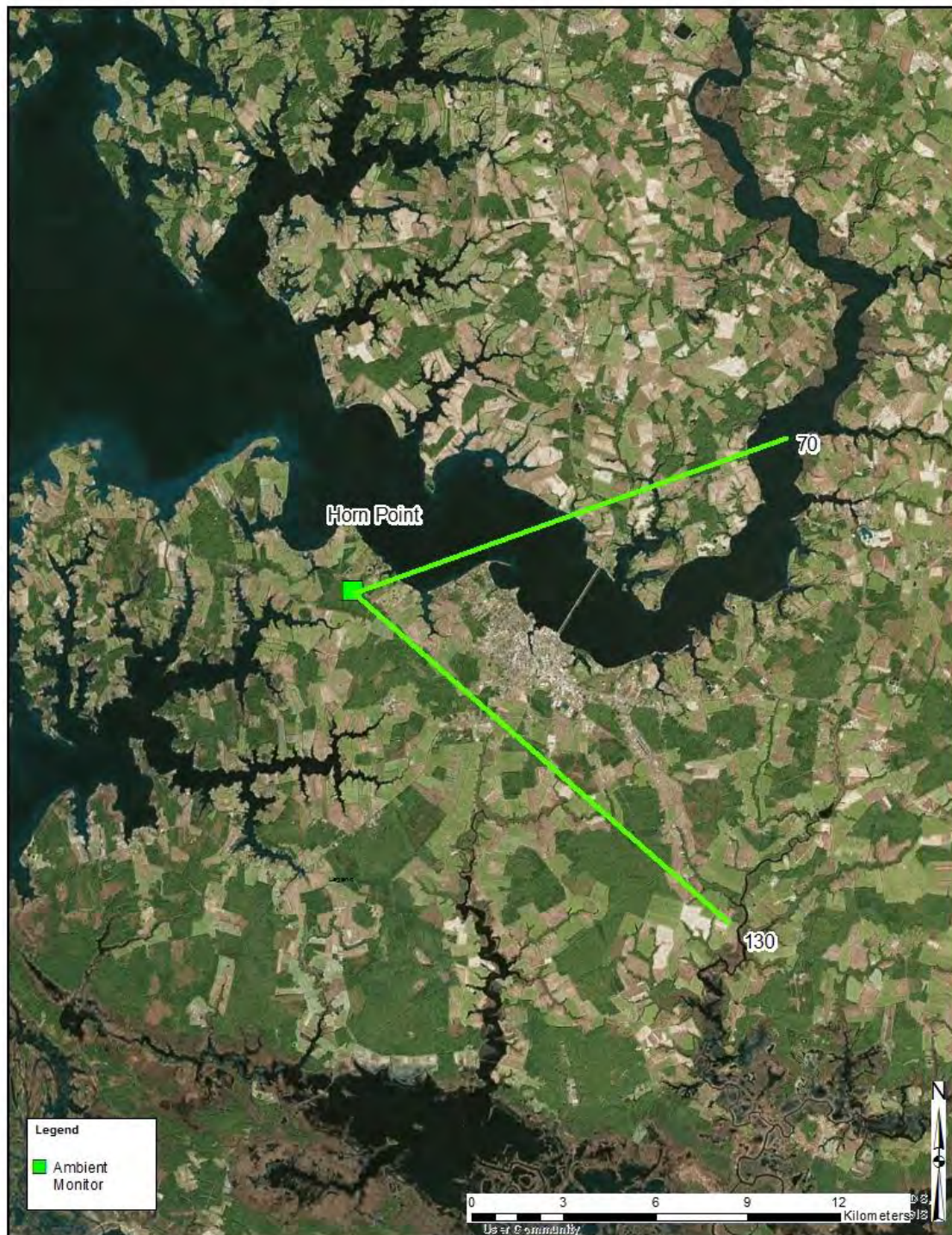


**Figure 4-20: Three-Year Averaged (2014-2016) SO<sub>2</sub> Background Concentrations Varying by Season and Hour-of-Day ( $\mu\text{g}/\text{m}^3$ )**





**Figure 4-21: Easterly Wind Sector Used to Calculate Design Value for Horn Point Monitor**



## 5. Determination of Critical Emission Values

The critical emission value for a facility is the maximum 1-hour average emission rate that, when combined with background, results in a design concentration that is slightly below the NAAQS. Initial modeling using emission rates reflecting either the current 1-hour emission limits (Wheelabrator) or the equivalent 1-hour average emission rate derived from the projected operations (H.A. Wagner and Brandon Shores) will be performed for this modeling effort. This modeling will follow the procedures noted in Section 4, and the cumulative source impacts at each model receptor will be summed with regional background.

The CEV analysis will be conducted for two emission cases involving Fort Smallwood:

- Brandon Shores and Wagner Unit 3 are assumed to be continuously operating. Note that since Wagner Units 1 and 4 operate less than 5% of the time (and could be considered intermittent sources), their “critical emission value” is zero (not operating mode).
- Brandon Shores is assumed to be operating continuously, but Wagner Unit 3 is not operating.

It is likely that the concentration normalized by emissions is lower for Brandon Shores operating alone (due to reduced downwash effects and merged flues) than for the combination of Brandon Shores and Wagner Unit 3. Therefore, a combined CEV emission rate for the first emission case of both plants operating is likely to be applicable to the second case as well, with some margin under the NAAQS for the second case with the same combined emission rate.

The non-attainment guidance issued by EPA in April 2014<sup>19</sup> allows for the consideration of longer emission averaging times that provide for comparable stringency with the critical emission values that can still be protective of the NAAQS. This analysis approach is discussed further in Section 6.

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<sup>19</sup> <http://www3.epa.gov/airquality/sulfurdioxide/pdfs/20140423guidance.pdf>

## 6. Determination of SO<sub>2</sub> Emission Limits for the Sources Located in the Baltimore, MD NAA

EPA's April 23, 2014 guidance for resolving SO<sub>2</sub> non-attainment areas acknowledges "that it may be possible in specific cases for states to develop control strategies that account for variability in 1-hour emissions rates through emission limits with averaging times that are longer than 1 hour, using averaging times as long as 30-days, but still provide for attainment of the 2010 1-hour SO<sub>2</sub> NAAQS." EPA's general expectation is that for infrequent periods of hourly emissions above the critical emission value, "these periods would be unlikely to have a significant impact on air quality, insofar as they would be very unlikely to occur repeatedly at the times when the meteorology is conducive for high ambient concentrations of SO<sub>2</sub>. EPA considers this option to be an "appropriate balance between providing a strong assurance that the NAAQS will be attained and maintained, while still acknowledging the necessary variability in source operations and the impairment to source operations that would occur under what could be in some cases an unnecessarily restrictive approach to constraining that variability" (emphasis added). Brandon Shores and Wagner Unit 3 are equipped with and operate with SO<sub>2</sub> emissions control devices. For such sources seeking alternate or longer-term emission limits, EPA's guidance notes that:

"Sources with emission control equipment may be especially prone to periodic occurrences of high emissions, arising on occasions when the control equipment is not operating or operating at reduced efficiency. Therefore, the EPA finds it advisable that longer-term average limits for sources that meet these limits through the use of emission control equipment be subject to supplemental limits that serve to constrain the frequency and/or magnitude of occasions of elevated emissions. Establishment of such supplemental limits as part of a longer-term averaging approach is especially important in cases with significant potential for frequent and/or high magnitude occasions of elevated emissions, including, but not limited to, sources using emissions control equipment."

Brandon Shores Units 1 and 2 are two coal-fired boilers that exhaust through a common stack. As mentioned in Section 3.2, these units operate with a FGD scrubber that inherently alters the plume characteristics from dry to wet. AECOM will reserve the option of employing a new technique, "AERMOIST", to derive effective hourly stack temperatures that account for the effect of the heat of condensation. The technical details of this process are described in submittals to the EPA Appendix W proposal docket and in a peer-reviewed journal article<sup>20</sup>. For these units, process upset conditions that could potentially result in infrequent elevated SO<sub>2</sub> emission spikes (e.g., loss of a spray pump in the flue gas desulphurization module) may be difficult to address within a one-hour period in a manner that restores operations to those that preceded the upset condition. These units are operated in a manner that avoids unplanned or abrupt changes in generating load. Consequently, establishing alternate SO<sub>2</sub> emission limits is appropriate for these sources.

Wagner Units 1 and 4 are fueled by oil, with Unit 1 using natural gas typically outside of the winter season. These units operate in a manner that acts to support Units 2 and 3, typically when demand is higher (hot summer days and cold winter days). Because Wagner Units 1 and 4 will operate less than 5% hours annually on oil, establishing alternate SO<sub>2</sub> emission limits would also be appropriate given their infrequent operating schedule on oil.

Wagner Unit 3 is equipped with a dry sorbent injection (DSI) that reduces SO<sub>2</sub> emissions. During rare system malfunctions of the DSI injection, excess emissions of SO<sub>2</sub> can occur. Additionally, at maximum load, a condition that only occurs occasionally during more extreme electrical demand conditions, SO<sub>2</sub> removal may not be as effective due to lower retention time of the sorbent, so SO<sub>2</sub> emissions may be

<sup>20</sup> See Appendix M at <http://www.regulations.gov/#documentDetail;D=EPA-HQ-OAR-2015-0310-0110>. Also see the journal article: Paine, R., Warren, L.L., Moore, G.E., Source Characterization Refinements for Routine Modeling Applications, Atmospheric Environment (2016), doi: 10.1016/j.atmosenv.2016.01.003.



higher than normal for these hours. Given that these events are rather infrequent, Unit 3 will also pursue alternate SO<sub>2</sub> emission limits to account for these infrequent events.

For H.A. Wagner and Brandon Shores, Talen Energy proposes that attainment with the 1-hour SO<sub>2</sub> NAAQS in the Anne Arundel and Baltimore Counties, MD NAA can be assured via compliance with the use of a 30-day rolling average limit calculated as discussed below.

For the purposes of calculating a 30-day average SO<sub>2</sub> emission limit for Brandon Shores Units 1 and 2 and Wagner Units 3, Talen Energy has elected to follow the procedure included in EPA's non-attainment guidance document, Appendix B. In general, EPA expects that any emission limit with an averaging time longer than 1 hour would need at least a slight downward adjustment to compensate for the loss of stringency inherent in applying a longer-term average limit. The procedure for determining the longer-term emission limit is included in Appendix B of the EPA's April 23, 2014 guidance, and is further discussed below.

## 6.1 Appendix B Approach - Overview

As discussed in EPA's 2014 SO<sub>2</sub> nonattainment guidance document (Appendix B), the effect of infrequent emissions above the Critical Emission Value is outlined below:

"Exceedances of the SO<sub>2</sub> NAAQS occur when emissions from relevant sources are sufficiently high on occasions when the meteorology is conducive for those emissions to cause elevated SO<sub>2</sub> concentrations. An illustrative example would be a case in which a single source has a dominant impact on area concentrations, and the source only causes an exceedance at a particular location with light southwest winds with limited dispersion. In this example, the likelihood of an exceedance at that location will be a function of the likelihood of elevated emissions occurring during times of light southwest winds with limited dispersion. Stated more generally, the likelihood of an exceedance is a function of the likelihood of emissions being high when the meteorology is conducive for the source to cause an exceedance. By extension, the likelihood of a violation is a function of the likelihood of emissions being high on a sufficient number of times with meteorology conducive to having exceedances to have the average of the 99<sup>th</sup> percentile daily maximum values exceed the NAAQS. Viewed another way, the occasions when the meteorology is conducive for the source to cause an exceedance at a particular location are likely to be infrequent, and high concentrations are contingent on both emissions being sufficiently high and the meteorology being sufficiently conducive. The NAAQS itself is based on relatively rare occurrences, being based on the 99<sup>th</sup> percentile of daily maximum concentrations. Nevertheless, the point here is that the occurrence of high emissions will not cause an exceedance if it does not occur when meteorology is conducive to having an exceedance. Furthermore, a source with rare occurrences of high emissions and with much more frequent occurrences of moderate emissions is more likely to have moderate emissions on those occasions with meteorology conducive for exceedances, and the design value for the source may be more prone to reflect the moderate emissions than the high emissions."

EPA's 2014 SO<sub>2</sub> nonattainment guidance document establishes a procedure in Appendix B for showing that a longer-term emission limit (with a downward adjustment factor applied to the CEV based on a projected distribution of emissions) can be protective of the 1-hour SO<sub>2</sub> NAAQS. The discussion on page 25 of this guidance further discusses this approach.

"Appendix B documents analyses that the EPA has conducted to evaluate the extent to which longer term average limits that have been adjusted to have comparable stringency to 1-hour limits at the critical emission value provide for attainment. In brief, while a longer term average limit as contemplated here would allow occasions when emissions exceed the critical emission value, the use of a lower limit compensates by requiring most values to be lower than they are required to be with a 1-hour limit at the critical emission value. The EPA expects that a common net result will be that the comparably stringent limit will provide a sufficient constraint on the frequency and magnitude of

occurrences of elevated emissions (especially if supplemented with more direct limits on these occurrences) that a control strategy based on such limits would reasonably provide for attainment.”

Once a 1-hour emission limit (assuming constant operation) at the critical emission value is established based on the traditional modeling approach, the critical emission value could then be used as the baseline for establishing a longer-term averaged emission limit. Historical emissions can be analyzed to determine a representative future emission scenario and then scaled as needed to fit the long-term average emission limit. A source could be expected to experience occasional hourly emission rates greater than the long-term (30-day) average emission limit with the likelihood that such infrequent emissions do not result in a NAAQS exceedance, as discussed above.

In their Appendix B of the 2014 SO<sub>2</sub> nonattainment guidance, EPA has outlined a procedure to conduct modeling of a highly variable source as well as a site-specific modeling approach for demonstrating through a large number of modeling runs that a specific emissions distribution can be shown to protect the 1-hour SO<sub>2</sub> NAAQS. This “Randomly Reassigned Emissions” (RRE) procedure is discussed further below, followed by a discussion as to how this procedure will be applied for this modeling application.

## 6.2 Randomly Reassigned Emissions Approach for Fort Smallwood Sources

The procedures outlined in Appendices B and C of the April 23, 2014 Guidance for 1-hour SO<sub>2</sub> Nonattainment Area SIP Submission Memorandum discuss how to calculate a long-term (30-day) emission limit based upon probabilistic modeling that shows that the longer-term emission rate will still result in 1-hour SO<sub>2</sub> NAAQS compliance. Establishing a 30-day average limit, is most appropriate if the frequency and magnitude of occasionally elevated emissions (above the CEV) will be relatively low (typically no more than 5% of the time). EPA’s Appendix B procedure for determining a suitable longer-term average limit consists of the following steps for a variable emission source.

1. Conduct dispersion modeling to determine 1-hour CEV based on a level of emissions that shows NAAQS compliance; this emission rate is lower than the emission rate of infrequent elevated emission hours (that could occur up to 5% of the year).
2. Derive an estimate of the distribution of future emission from statistical analysis of a set of representative recent emissions data (i.e., CEMS) that reflects the emissions variability that the source is expected to exhibit in the future, once the SIP is implemented, in 2021. This emission distribution can be expressed as a cumulative frequency distribution and can also be expressed as a set of discrete emission “bins” that approximate (or that provide a slightly higher set of emissions than) the cumulative emissions curve. The distribution will include “normal” emission levels at or below the CEV ( $\geq 95\%$  of hours) and the high emission events above the CEV ( $\leq 5\%$  of hours).
3. As needed, adjust the future emission values within the distribution so that all of the sets of modeling runs (using 5 years of meteorological data) described below show NAAQS compliance. This could be an iterative process.
4. In the case of H.A. Wagner and Brandon Shores sources, establish an emissions “rule” that accommodates the high emission events based on the projected distribution of emissions (e.g., some high emission events are expected to occur only during the winter or summer months, corresponding to high load demand). The high emission rates are accommodated in discrete emission “events” that last from 1 to several hours that match the actual emissions behavior.
5. Create a large number (100) of emission data sets (full years of hourly emissions data that reflect the entire emissions distribution) by randomly assigning hourly emission values from the emissions bins throughout the year accounting for the high emission event “rules”.

6. Conduct 100 sets of AERMOD simulation runs (with a 5-year meteorological data set in this case) using the 100 randomly generated emissions data sets from above to obtain the average 99<sup>th</sup> percentile of daily maximum concentrations. Create a 5-year average of the 99<sup>th</sup> percentile statistic at each receptor in preparation for the next step.
7. Compare the modeled design concentration obtained from the 100 model simulations (5-year averages) to the 1-hour SO<sub>2</sub> NAAQS. A successful outcome is that all of the 100 model simulations (5-year averages) show NAAQS compliance.
8. The 30-day rolling average permit limit, which may be seasonally varied, would be consistent with the modeled monthly emission rates in the RRE modeling. This limit will be below the CEV and, as demonstrated by the rigorous modeling, will be adequately protective of the NAAQS.
9. For sources that operate infrequently (< 5% of hours), the CEV will be equal to zero. In these situations, a limit on the number of operating hours will be targeted along with a maximum (not to exceed) 1-hour emission peak rate.

This analysis will first be done with 100 emissions data sets for all sources operating (including the infrequent Wagner 1 and 4 operations) to determine the rolling 30-day average emission rate limits applicable when Brandon Shores and Wagner 3 are operating at the same time (i.e., both must be limited to attain the NAAQS). Then, a second case for which Wagner 3 is not emitting (but still with infrequent Wagner 1 and 4 operations) will be tested, for which the CEV and 30-day average emissions assigned to Wagner 3 are added to the Brandon Shores values from the “all sources” case. This case is expected to result in a larger margin of NAAQS compliance because of reduced building downwash effects for Brandon Shores. In other words, a pound of SO<sub>2</sub> emitted from Wagner 3 has a greater impact than a pound of SO<sub>2</sub> from Brandon Shores; therefore, two pounds released from Brandon Shores will have a lower impact than when one pound is emitted from Wagner 3 and one pound is emitted from Brandon Shores. These analyses for 1) both Brandon Shores and Wagner 3 in operation and 2) only Brandon Shores in operation will result in a combination of two limits applicable in parallel (at all times) that would be protective of the NAAQS: one for Wagner 3 based on its emissions in the first scenario and one for the combination of Wagner 3 and Brandon Shores based on the sum of their emissions in the first scenario. This arrangement covers any combination between the two scenarios (e.g., Wagner 3 and Brandon Shores operating together and Brandon Shores operating without Wagner 3).

A detailed explanation will be provided in the final SIP modeling demonstration report discussing the conditions that limit the emissions variability. This would include the following:

- Years selected for “representative recent emissions data”
- Process changes from baseline emission conditions, meaning changes from the “representative recent emissions data” conditions
- Resulting emissions data set with representative emissions bins
- Any unit limitations in operating hours
- Any limits to the joint operation of units for any given hour
- Any variation from the baseline, in the average percent of time each of the units operates
- Any variation from the baseline, in the average percent of time the units operate together.

### 6.3 Load-Varying Temperature and Velocity for Randomly Reassigned Emission Sources

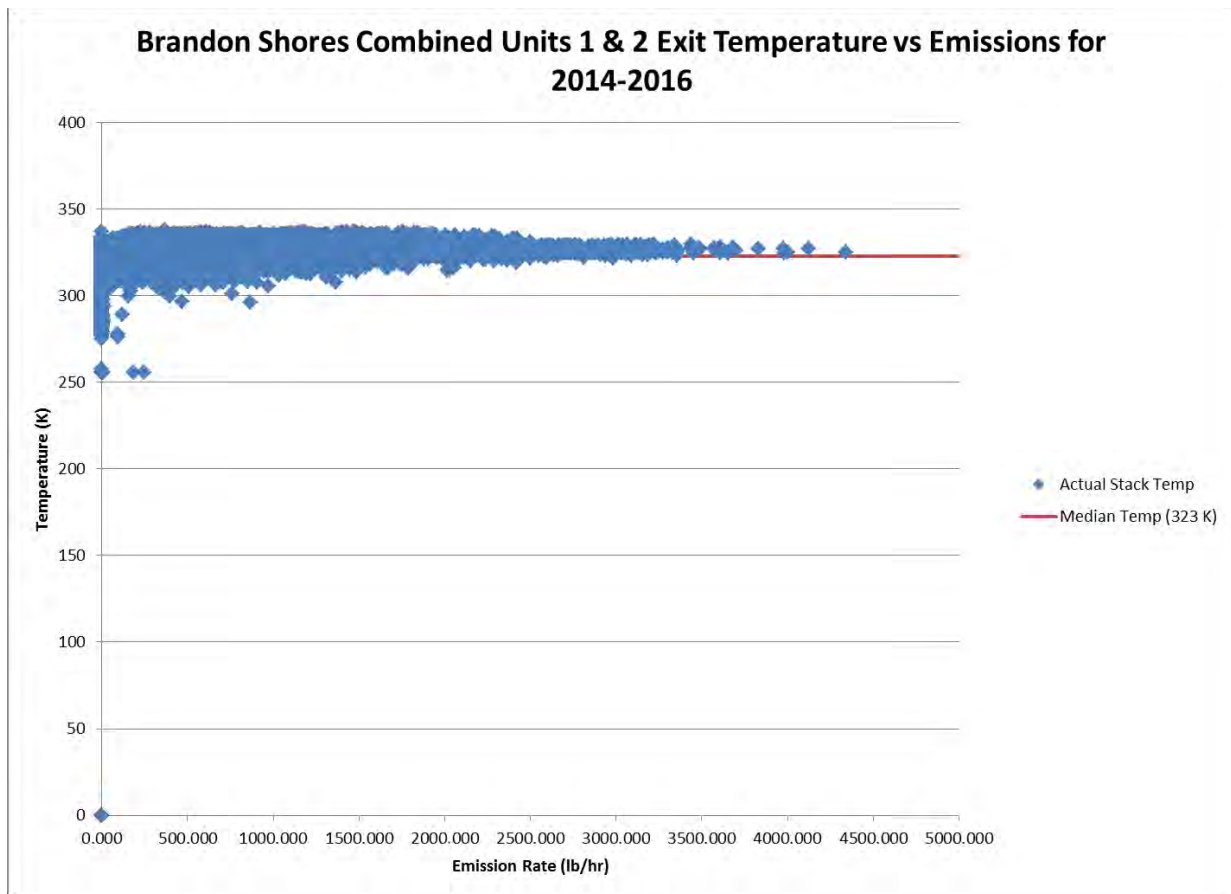
To ensure that appropriate gas exhaust parameters (temperature and velocity) will be accounted for in the Randomly Reassigned Emissions modeling for varying emission loads, representative values will be calculated based on historical data for Brandon Shores and Wagner sources. Since Wagner Units 1 and 4 will be burning oil, the temperature and velocities will be relatively constant. As a result, full-load parameters will be used across all emission rates for the Randomly Reassigned Emissions modeling.

For Brandon Shores Units 1 and 2, the gas exit temperature is relatively constant across operating loads, as shown in Figure 6-1. Therefore, a median temperature from 2014-2016 data of 323 Kelvin will be used for all emissions bins.

The velocity exhaust parameter for Brandon Shores Units 1 and 2 does vary with operating load. The 2014-2016 hourly data for the combined units will be divided into bins of 200 lb/hr of SO<sub>2</sub> emission rates. The median velocity corresponding to each 200 lb/hr emission bin will be analyzed to determine if there are discrete groups that exist. Table 6-1 summarizes the median velocities for each 200 lb/hr bin. There appears to be 3 distinct groups that the velocities can be assigned to an operating load (minimum, mid and full). For emissions between 1,000 lb/hr and 1,399 lb/hr, a median velocity of 12.42 m/s would be used, corresponding to minimum operating load. For emissions between 1,400 lb/hr and 2,799 lb/hr, a median velocity of 13.63 m/s would be used for mid-load. For full load, emissions greater than 2,800 would be modeled with a velocity of 14.41 m/s.

Since SO<sub>2</sub> emissions are likely to be reduced by approximately 50% due to changes in operations for Wagner 3 (compliance coal and increased use of DSI), obtaining representative gas temperatures and velocities is not as straightforward compared to Brandon Shores. We propose using the ratio between the maximum actual SO<sub>2</sub> hourly emission rate and the future normal operation maximum hourly emission rate (i.e., CEV). Then, we will apply this ratio to the actual emissions over the 2014-2016 period to obtain an adjusted SO<sub>2</sub> hourly emission rate that accounts for compliance coal and 30% DSI efficiency. Figures 6-2 and 6-3 show temperature versus adjusted emission rate and velocity versus adjusted emission rate, respectively. A temperature or velocity value would be assigned to a randomly reassigned emission rate bin based upon where the intersection of that emission rate meets the temperature or velocity data. To be conservative, we would select a temperature and velocity value that conservatively resides on the low end for a given randomly reassigned emission rate. For example, an emission rate of 1,500 lb/hr would yield a temperature of 394.44 K and a velocity of 24.107 m/s.

**Figure 6-1: Brandon Shores Combined Units 1 and 2 Exit Temperatures Versus SO<sub>2</sub> Emissions for 2014-2016**

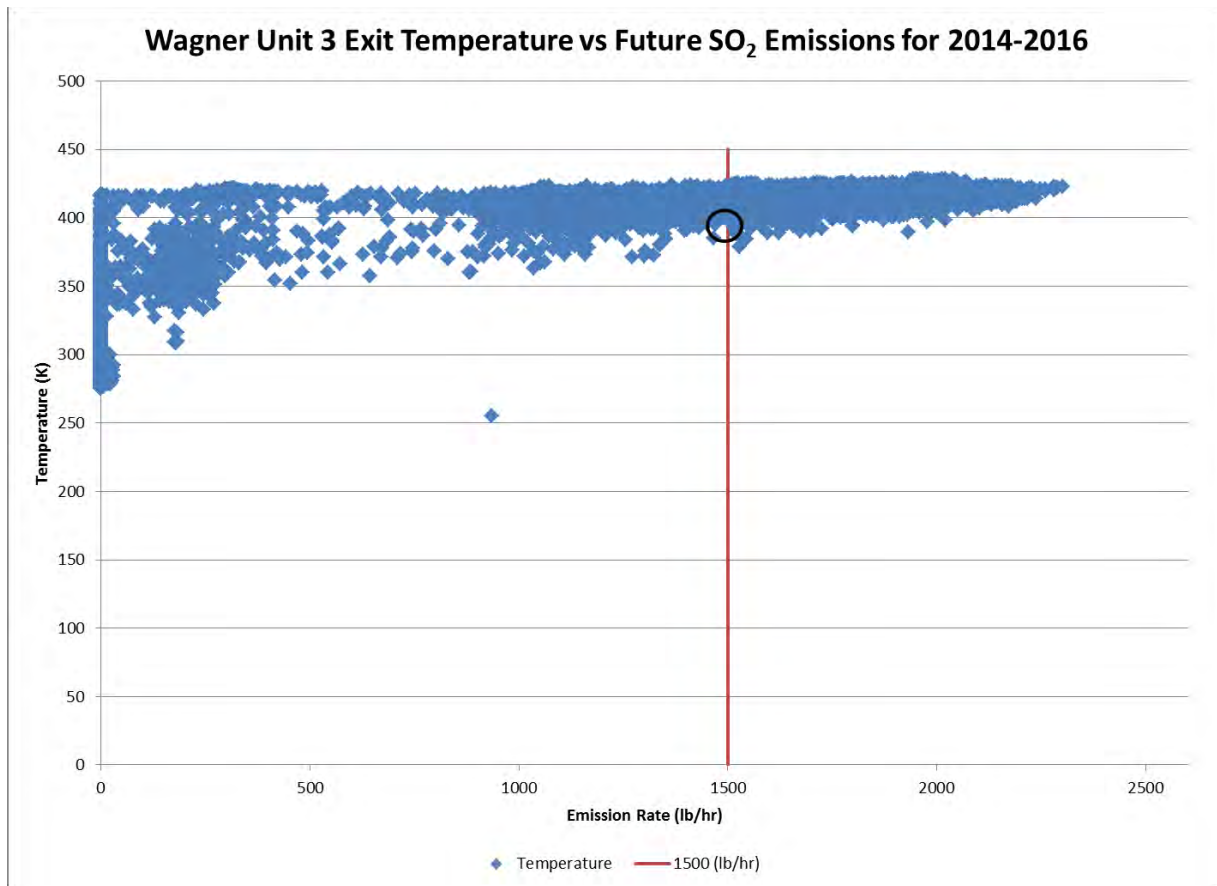




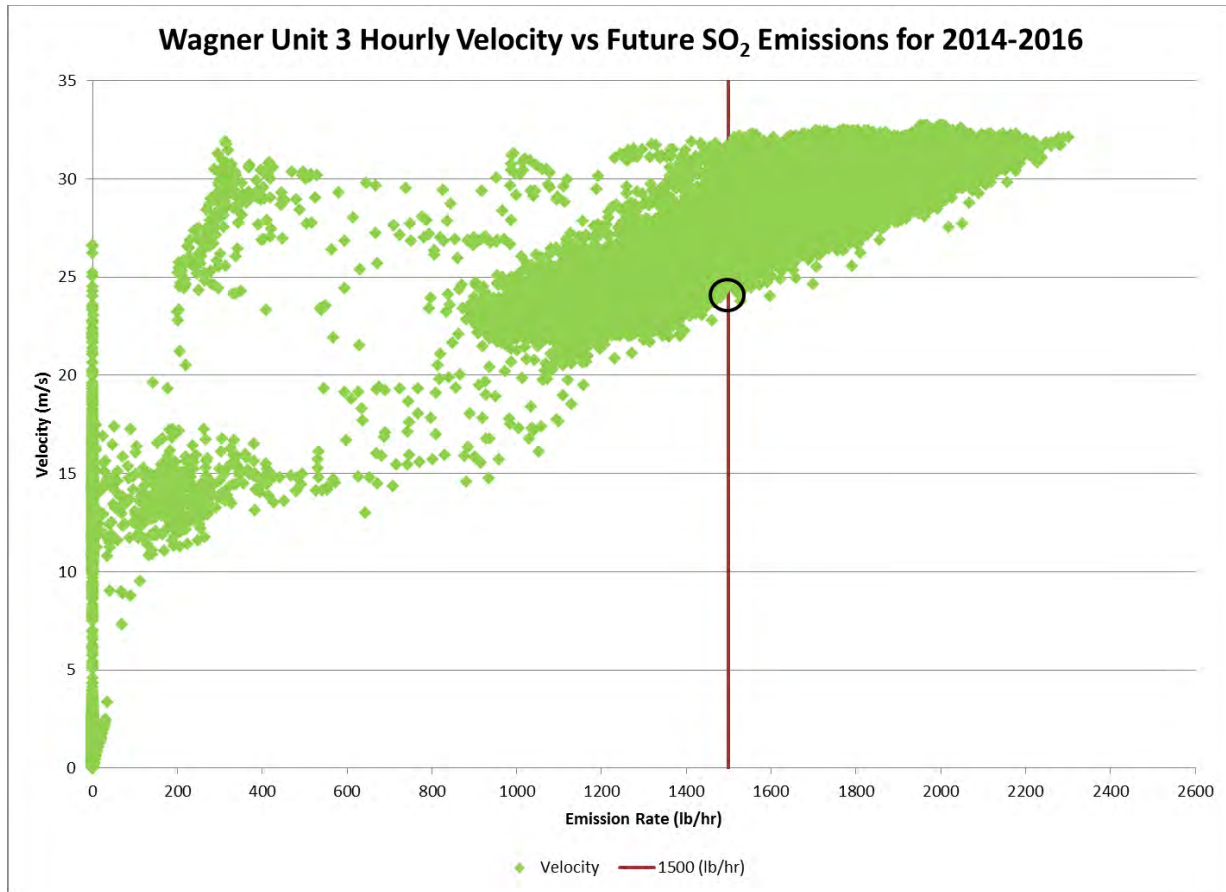
**Table 6-1: Brandon Shores Combined Units 1 and 2 Median Velocities for Range of Emissions for 2014-2016**

Operating Load	Value	Bin 1	Bin 2	Bin 3	Bin 4	Bin 5	Bin 6	Bin 7	Bin 8	Average of the Velocities Per Operating Load (m/s)
Minimum	Lower Emission (lb/hr)	1000	1200							12.42
	Upper Emission (lb/hr)	1200	1400							
	Median Velocity (m/s)	12.18	12.665							
Mid	Lower Emission (lb/hr)	1400	1600	1800	2000	2200	2400	2600		13.63
	Upper Emission (lb/hr)	1600	1800	2000	2200	2400	2600	2800		
	Median Velocity (m/s)	13.326	13.549	13.506	13.713	13.707	13.73049	13.8865		
Full	Lower Emission (lb/hr)	2800	3000	3200	3400	3600	3800	4000	4200	14.41
	Upper Emission (lb/hr)	3000	3200	3400	3600	3800	4000	4200	4400	
	Median Velocity (m/s)	14.354	14.544	14.761	14.163	14.044	14.235	14.4925	14.685	

**Figure 6-2: Wagner Unit 3 Exit Temperatures Versus Future SO<sub>2</sub> Emissions for 2014-2016**



**Figure 6-3: Wagner Unit 3 Exit Velocity Versus Future SO<sub>2</sub> Emissions for 2014-2016**



## 7. Results of SO<sub>2</sub> NAAQS Compliance Modeling Analysis

A report will be provided that summarizes the procedures followed, the emissions modeled (including CEVS and Appendix B emission data sets) and modeling results including tables and figures. A modeling archive will be provided electronically to MDE.

Areas with elevated concentrations will be reviewed and additional receptors will be modeled if the receptors spacing needs to be refined to an x-y resolution of 100 meters. The modeling results of this SO<sub>2</sub> characterization will be used to determine the future emission limits that will comply with the NAAQS as part of the requirement of the SIP demonstration. The 100 AERMOD simulations using randomly reassigned 1-hour emission rates for Brandon Shores and H.A. Wagner sources will be run with a constant CEV 1-hour emission rate for C.P. Crane and Wheelabrator for the receptors described in this protocol in the Anne Arundel and Baltimore Counties, MD NAA, plus regional background (HU-Beltsville and Horn Point monitors for 2014-2016 as discussed in Section 4.7). The modeling results will indicate that the 5-year average of the 99<sup>th</sup> percentile peak daily 1-hour maximum concentration is below the NAAQS (196.5 µg/m<sup>3</sup>) for each of the 100 AERMOD RRE simulations (done for both Brandon Shores and Wagner 3 operating as well as only Brandon Shores operating). In this case, with the projected emissions as modeled being the basis for new emission limits, the current Anne Arundel and Baltimore Counties, MD NAA can be recommended for a future designation of attainment.

After the modeling is conducted, a table will be provided with the permitted emission rates consistent with the modeling and Appendix B of the SO<sub>2</sub> guidance. The specified emission limits will consist of:

- A rolling 30-day SO<sub>2</sub> emission rate for Wagner 3 that may vary seasonally;
- A total rolling 30-day SO<sub>2</sub> average emission rate for the sum of Brandon Shores and Wagner 3 that may vary seasonally;
- For each stack modeled, the number of hours per year that the CEV emission rate can be exceeded; and
- For each stack modeled, the peak emission rate allowed.

This combination of long-term and short-term emission limits will act to limit the frequency of elevated emissions while providing the modeled facilities with additional operational flexibility, and ensure attainment of the SO<sub>2</sub> NAAQS in Anne Arundel and Baltimore Counties.

## Appendix C-7 Weight of Evidence

### Maryland Department of the Environment

#### Supplemental Information on Air Dispersion Modeling

##### *For State of Maryland 1-Hour SO<sub>2</sub> NAAQS State Implementation Plan for the Anne Arundel County and Baltimore County, MD (“Wagner”) Nonattainment Area*

November 2019

Since the February 2018 submittal of the original SO<sub>2</sub> nonattainment area modeling report, many components of the air dispersion modeling analysis have changed. Of particular importance is that the AERMOD modeling system has gone through two version updates. The ambient background concentrations of SO<sub>2</sub> in the region have seen a decrease of more than 50% as well. As a result, MDE decided to update the original air dispersion modeling analysis for the Case 1 CEV run, which was used to determine the critical emissions value. This Appendix provides detailed information on the parameters that have been updated and the results from the new model runs.

#### **1. Ambient Background Data**

The February 2018 modeling analysis used monitored background concentrations for the years of 2014 – 2016 from the HU-Beltsville monitor (AQS #24-033-0030), combined with data from the Horn Point monitor (AQS #24-019-0004) when wind directions are between 70° and 130° (easterly).

MDE reviewed the monitored background concentrations from the HU-Beltsville and Horn Point monitors with data from years 2016 – 2018. Significant decreases in the monitored concentrations were noted. Table 1 shows the decrease of design values for 1-hour SO<sub>2</sub> NAAQS at these two monitors.

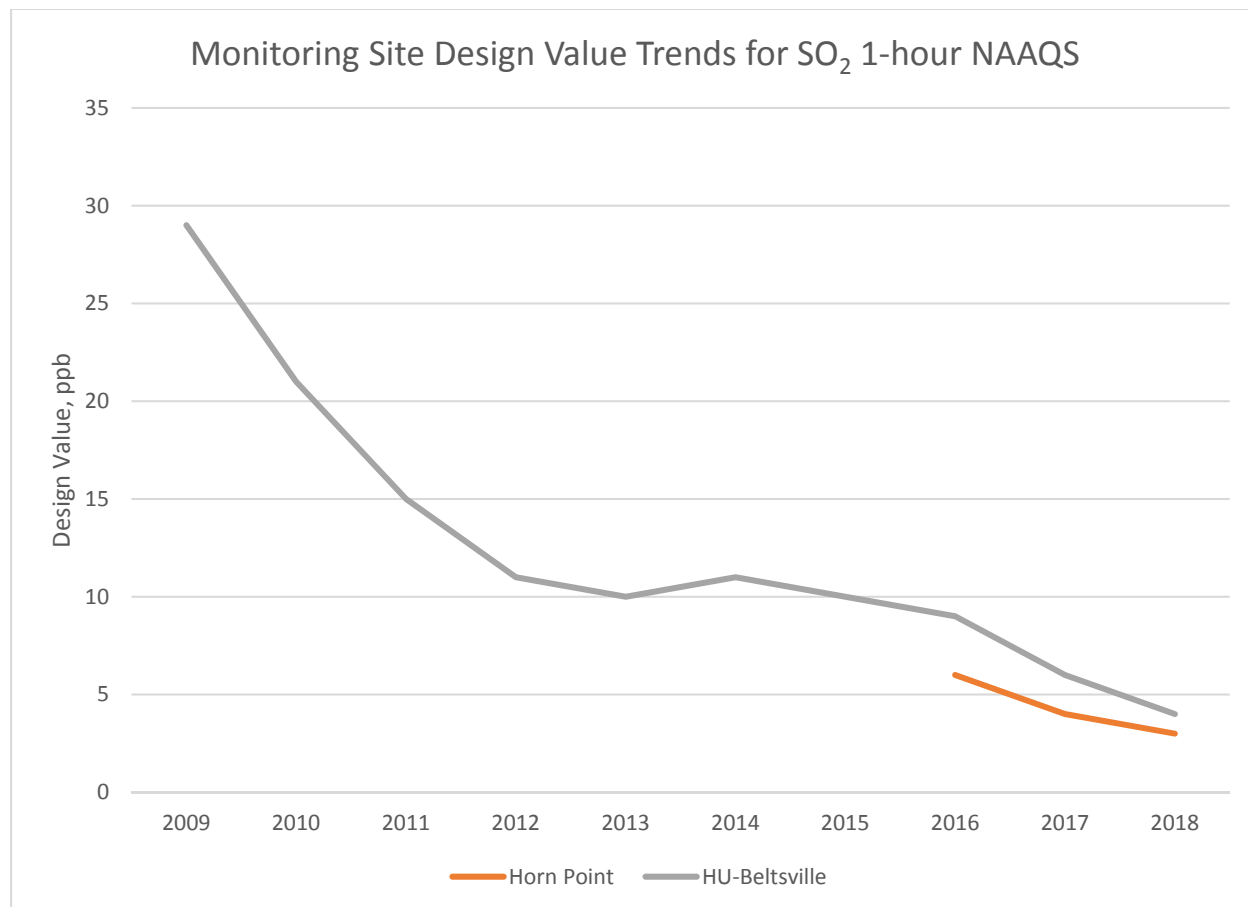
Table 1: 1-Hour SO<sub>2</sub> NAAQS Design Values at HU-Beltsville and Horn Point Monitors

Year	SO <sub>2</sub> 1-Hour NAAQS Design Value (ppb) at HU-Beltsville	SO <sub>2</sub> 1-Hour NAAQS Design Value (ppb) at Horn Point
2014 – 2016	9	6
2015 – 2017	6	4
2016 – 2018	4	3

Source: EPA 2018 Design Value Reports, <https://www.epa.gov/air-trends/air-quality-design-values#report>

The decreasing trend of monitored SO<sub>2</sub> concentrations can also be seen in Figure 1.

Figure 1: Design Value Trends for SO<sub>2</sub> 1-hour NAAQS at the HU-Beltsville and Horn Point Monitors



Consistent with the previous modeling analysis, MDE used varying background values from the most recent 3-year period of 2016 – 2018, whereby the background values vary by season and by hour-of-day. The 2016 – 2018 ambient SO<sub>2</sub> background data were obtained from EPA’s Air Quality System (AQS) Data Mart for the HU-Beltsville monitor. Procedures in EPA’s March 2011 clarification memo<sup>1</sup> with regard to 1-hour SO<sub>2</sub> background values were examined and followed. The HU-Beltsville 1-hour SO<sub>2</sub> monitoring data is sufficiently complete and is acceptable to use in the modeling. The hourly values were averaged for the 3-year period for each season. The AERMOD modeling system defines seasons as following:

- Winter: December, January, February
- Spring: March, April, May
- Summer: June, July, August
- Fall: September, October, November

<sup>1</sup> [https://www3.epa.gov/scram001/guidance/clarification/Additional\\_Clarifications\\_AppendixW\\_Hourly-NO2-NAAQS\\_FINAL\\_03-01-2011.pdf](https://www3.epa.gov/scram001/guidance/clarification/Additional_Clarifications_AppendixW_Hourly-NO2-NAAQS_FINAL_03-01-2011.pdf)

These averaged hourly values were applied to each hour of the 5-year modeling period. The model then added the background concentrations to the predicted SO<sub>2</sub> concentrations for each hour.

The background concentrations used in the modeling analysis are listed in Table 2. The concentrations range from 0.52 µg/m<sup>3</sup> to 6.90 µg/m<sup>3</sup>, compared to a range of 1.31 µg/m<sup>3</sup> to 13.62 µg/m<sup>3</sup> used in the February 2018 modeling analysis.

Table 2: 3-Year Averaged 1-Hour SO<sub>2</sub> Background Concentrations for HU-Beltsville Monitor

Hour	2016 – 2018 Averaged Hourly Values for Winter (µg/m <sup>3</sup> )	2016 – 2018 Averaged Hourly Values for Spring (µg/m <sup>3</sup> )	2016 – 2018 Averaged Hourly Values for Summer (µg/m <sup>3</sup> )	2016 – 2018 Averaged Hourly Values for Fall (µg/m <sup>3</sup> )
1	3.58	1.66	0.87	0.79
2	3.49	1.57	1.05	1.05
3	4.10	1.22	0.52	1.22
4	3.32	1.14	0.61	1.05
5	3.23	1.40	0.79	0.70
6	3.06	1.14	0.79	0.61
7	3.84	1.40	1.40	0.70
8	3.32	3.23	2.27	1.83
9	4.72	4.45	3.41	4.19
10	6.46	4.45	4.54	4.54
11	6.55	4.98	6.11	6.90
12	6.90	5.68	4.63	3.67
13	6.81	4.80	2.36	3.84
14	6.20	5.33	2.71	4.10
15	5.68	4.02	4.10	5.68
16	5.41	4.10	4.28	3.76
17	4.54	3.84	1.92	2.62
18	4.28	3.58	1.75	1.57
19	4.19	2.53	1.14	1.31
20	4.19	1.92	1.40	1.22
21	4.63	2.01	0.79	0.87
22	4.37	1.92	0.61	0.79
23	4.80	1.66	0.96	0.70
24	4.28	1.57	0.96	0.70

A plot of the hourly background values by season and hour is shown in Figure 2.

Figure 2: 2016 – 2018 Averaged SO<sub>2</sub> Background Concentrations Varying by Season and Hour-of-Day

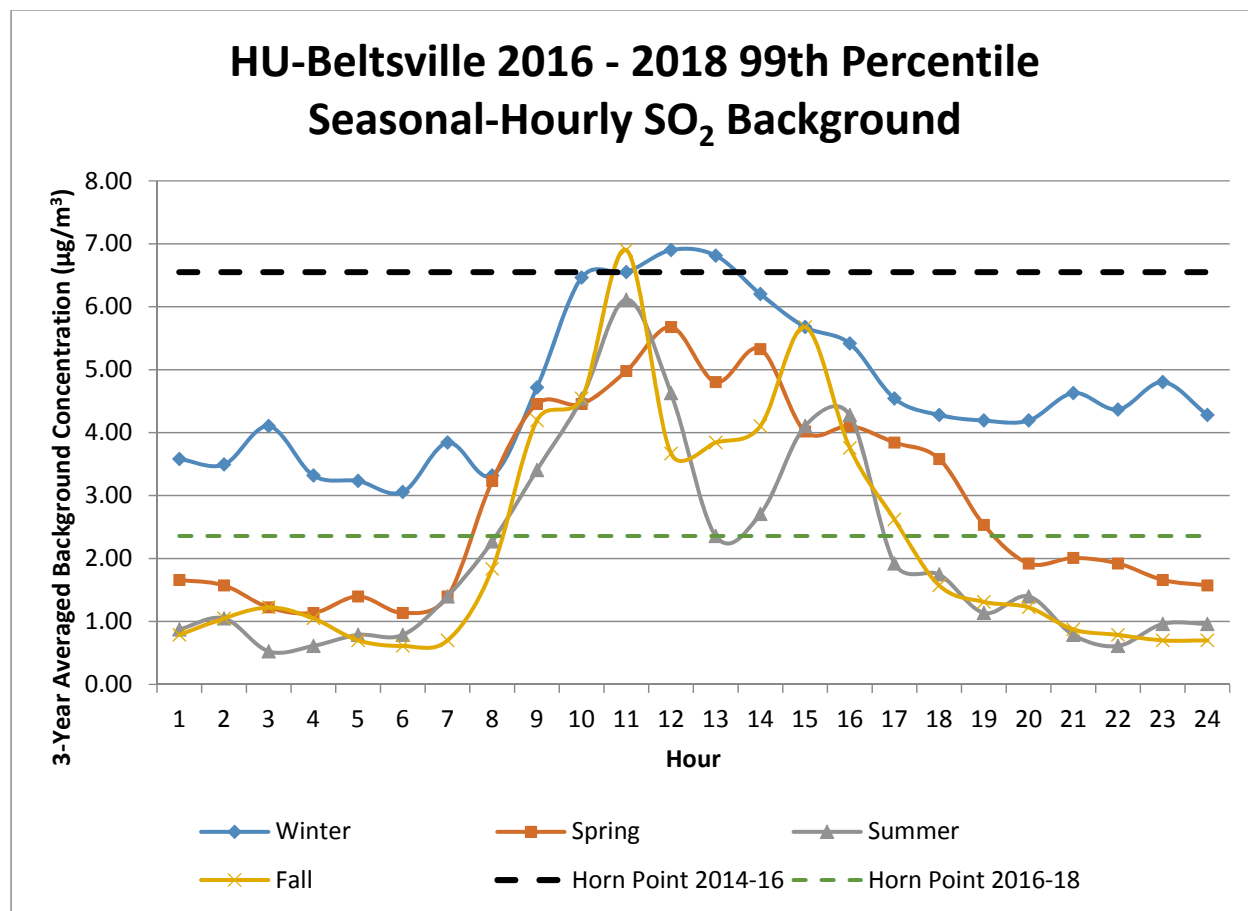


Figure 2 also includes, for reference only, the uniform background values for the Horn Point monitor. The February 2018 modeling analysis used a 3-year (2014 – 2016) 99<sup>th</sup> percentile value from Horn Point (2.5 ppb, or 6.55 µg/m<sup>3</sup>, shown as the black dashed line in Figure 2) in place of the HU-Beltsville monitoring data for when wind directions are between 70° and 130° (easterly).

Unlike the previous modeling analysis, MDE decided to not substitute HU-Beltsville monitor's data with Horn Point monitor's data. All background concentrations come from the HU-Beltsville monitor. MDE analyzed the 1-hour SO<sub>2</sub> data from Horn Point for 2016 – 2018 and determined the 99<sup>th</sup> percentile design value for the specific wind sector to be 0.9 ppb, or 2.35 µg/m<sup>3</sup>, shown as the green dashed line in Figure 2. With most of the predicted high ground level concentrations occurring during the day, it is a conservative measure to use the HU-Beltsville data, not the uniform background data from Horn Point.

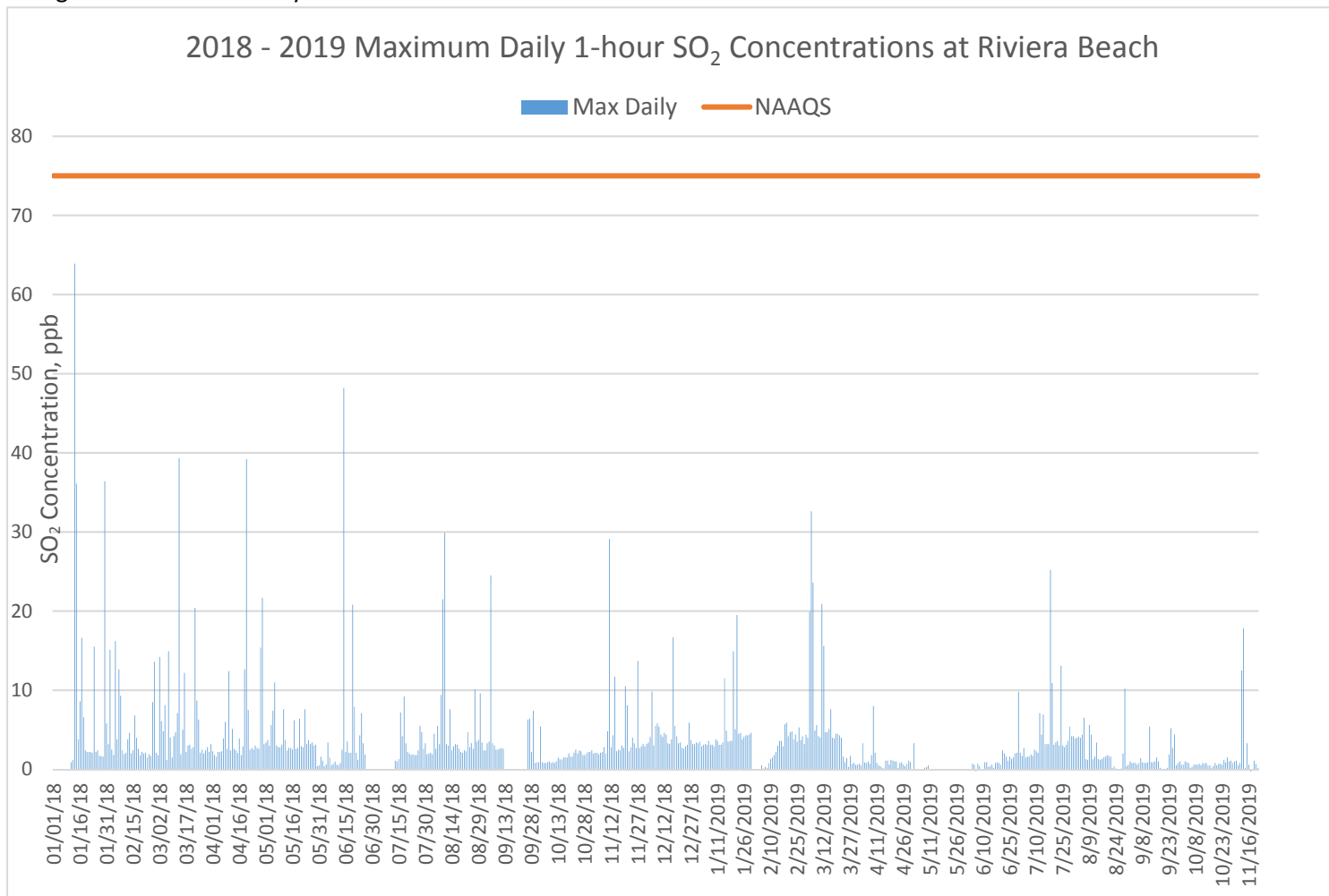
#### Measured Ambient Concentrations of SO<sub>2</sub> at Riviera Beach

On January 12, 2018, a source-oriented SO<sub>2</sub> monitor was established at Riviera Beach Elementary School as a Special Purpose Monitor for the purpose of better evaluating actual ambient SO<sub>2</sub> concentrations in the area. This monitor is situated on the Riviera Beach Elementary School property, approximately 2.5



kilometers (1.6 miles) to the southeast of H.A. Wagner Generating Station. Since it began collecting data in January 2018, the measured 1-hour SO<sub>2</sub> concentrations have never exceeded or come close to the 1-hour SO<sub>2</sub> NAAQS of 75 ppb. The maximum daily 1-hour SO<sub>2</sub> concentrations for 2018 and 2019 measured at Riviera Beach monitor is presented in Figure 3.

Figure 3: Maximum Daily 1-hour SO<sub>2</sub> Concentrations at the Riviera Beach Monitor



## 2. Model Version Selection

Model and Preprocessors/ Other Input Data	February 2018 Modeling Model Version No./ Years of Data Used	Most Recent Modeling Model Version No./ Years of Data Used
AERMOD	16216r	19191
AERMET	16216	18081*
AERMINUTE	15272	15272
AERSURFACE	13016	13016
AERMAP	11103	11103**
BPIP-PRIME	04274	04274
Background Concentration Years	2014 – 2016	2016 – 2018
Met Data Years	2012 – 2016	2012 – 2016

All components of the AERMOD modeling system that MDE used in its analysis are the current version, with the exception of AERMET and AERMAP.

- \* - According to the Model Change Bulletin #9 – Version Date 19191 for AERMET, there were no formulation changes or enhancements made to the model for this current version. The five bug fixes made in this version are not believed to cause any significant differences in model outputs from using the previous version of 18081.
- \*\* - According to the Model Change Bulletin #4 – Version Date 18081 for AERMAP, one bug fix and one enhancement were made in this current version. However, these changes are not believed to cause any significant differences in model outputs from using the previous version of 11103. For consistency purposes, the previously determined receptor elevations were used.

MDE elected to use meteorological data for years 2012 – 2016, same as previous modeling analysis (February 2018) for consistency purposes. These met data were re-processed using AERMET version 18081.

### 3. Model Results

MDE conducted AERMOD runs for Case 1 CEV, with the latest model version 19191, and updated background concentrations from 2016 - 2018. The model results are discussed below.

By specifying the MAXDCONT option in AERMOD, the model can output contributions of each source group for given receptors and ranked values.

A comparison of the contributions from each source group between the previous modeling analysis (February 2018) and this modeling analysis is presented in Table 3.

Table 3: Comparison of Source Contributions

	February 2018 Modeling Analysis *	Most Recent Modeling Analysis
Source	Concentration ( $\mu\text{g}/\text{m}^3$ )	Concentration ( $\mu\text{g}/\text{m}^3$ )
Crane Unit 1 & 2	0.61	0.82
Brandon Shores Merged Stack	85.64	85.86
Wagner Unit 1	0.00	0.00
Wagner Unit 3	102.70	102.34
Wagner Unit 4	0.00	0.00
Wheelabrator	0.17	0.24
Ambient Background	7.28	3.77
Peak Impact (Total)	196.40	193.04

\* Source: Table 5-2, *SO<sub>2</sub> Characterization Modeling Protocol Compliance Modeling Report for the Anne Arundel and Baltimore Counties, MD Non-Attainment Area – Rev 1, February 2018*

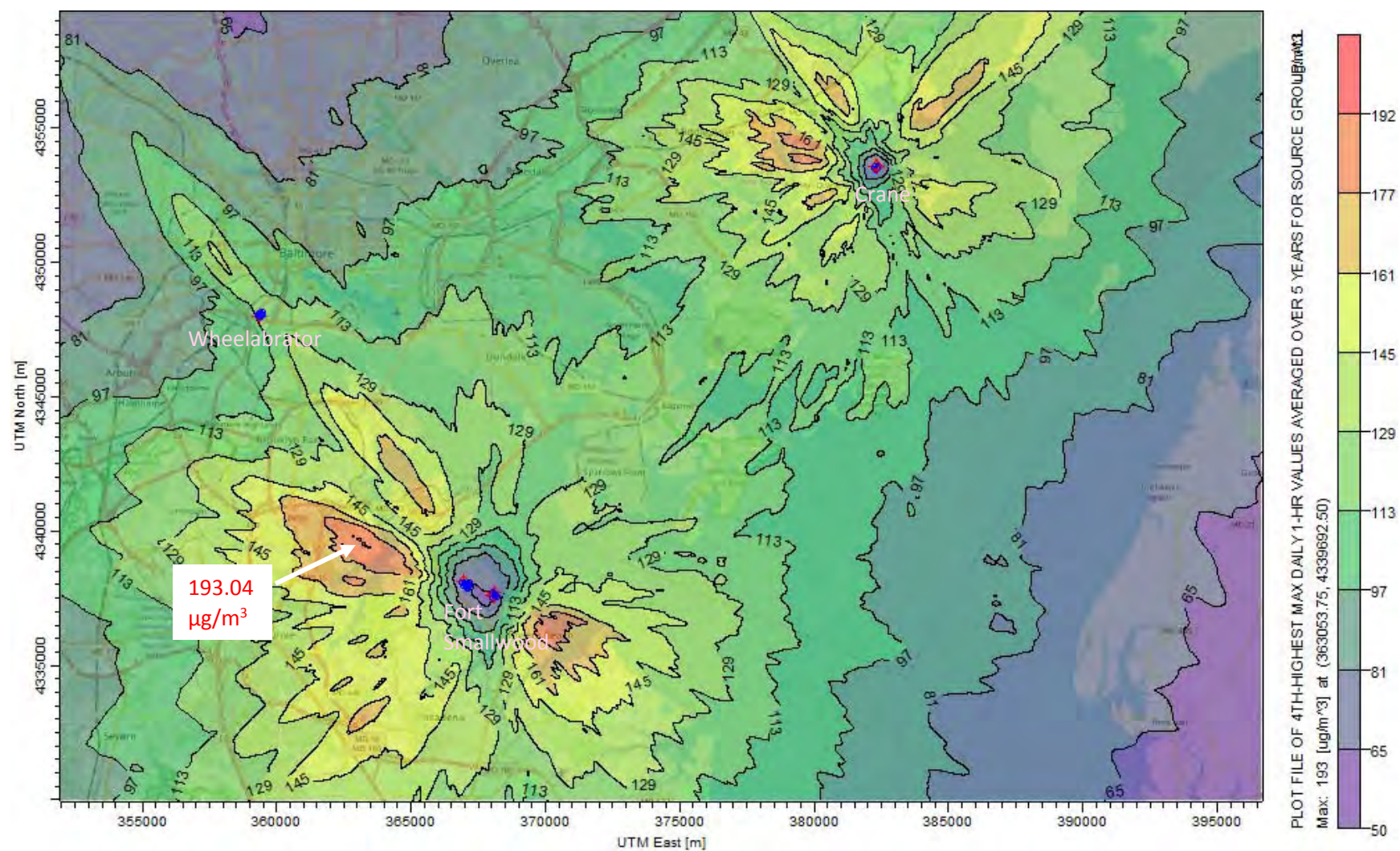
As shown in Table 3, the ambient background at this particular receptor decreased by  $3.51 \mu\text{g}/\text{m}^3$ , from  $7.28 \mu\text{g}/\text{m}^3$  to  $3.77 \mu\text{g}/\text{m}^3$ . The peak impact decreased by  $3.36 \mu\text{g}/\text{m}^3$ , from  $196.40 \mu\text{g}/\text{m}^3$  to  $193.04 \mu\text{g}/\text{m}^3$ .

Figure 4 shows the 1-hour SO<sub>2</sub> isopleth. The peak impact of  $193.04 \mu\text{g}/\text{m}^3$  occurred at the same receptor as in the previous modeling analysis, approximately 4 km (2.5 miles) west-northwest of the Fort Smallwood Complex.

### 4. Conclusions

Based on the analysis performed and highlighted in this Appendix, it can be safely concluded that, modeling analysis using the most recent version of the AERMOD model would not increase modeled ground level concentration for the Case 1 CEV run. Moreover, because the ambient background concentrations in the region have decreased significantly, when combining the updated background data to model predicted ground level concentrations, the peak 1-hour SO<sub>2</sub> impact of  $193.04 \mu\text{g}/\text{m}^3$  decreased from the previous value of  $196.40 \mu\text{g}/\text{m}^3$ . The predicted 1-hour SO<sub>2</sub> concentration for the Case 1 CEV run demonstrates compliance with the 1-hour SO<sub>2</sub> NAAQS.

Figure 4: 1-hour SO<sub>2</sub> Isopleths Showing the 99<sup>th</sup> Percentile Peak Impacts for CEV Case 1



## **Appendix D: EPA's Data Requirements Rule**

EPA's Data Requirements Rule for the 2010, 1-Hour SO<sub>2</sub> Standard

... pages 2144-2180



## ENVIRONMENTAL PROTECTION AGENCY

### 40 CFR Part 51

[EPA-HQ-OAR-2013-0711; FRL-9928-18-OAR]

RIN 2060-AR19

### Data Requirements Rule for the 2010 1-Hour Sulfur Dioxide (SO<sub>2</sub>) Primary National Ambient Air Quality Standard (NAAQS)

**AGENCY:** Environmental Protection Agency (EPA).

**ACTION:** Final rule.

**SUMMARY:** The Environmental Protection Agency (EPA) is promulgating a rule directing state and tribal air agencies (air agencies) to provide data to characterize current air quality in areas with large sources of sulfur dioxide (SO<sub>2</sub>) emissions to identify maximum 1-hour SO<sub>2</sub> concentrations in ambient air. The final rule establishes minimum criteria for identifying the emissions sources and associated areas for which air agencies are required to characterize SO<sub>2</sub> air quality. Air agencies remain free to also characterize air quality in additional areas beyond those required to be characterized under the rule. The final rule also sets forth a process and timetables by which air agencies must characterize air quality through ambient monitoring and/or air quality modeling techniques and submit such data to the EPA. The EPA has issued separate non-binding draft technical assistance documents recommending how air agencies should conduct such monitoring or modeling. The air quality data developed by air agencies pursuant to this rule may be used by the EPA in future actions to evaluate areas' air quality under the 2010 1-hour SO<sub>2</sub> National Ambient Air Quality Standard (NAAQS), including area designations and redesignations, as appropriate.

**DATES:** This final rule is effective on September 21, 2015.

**ADDRESSES:** The EPA has established a docket for this action under Docket ID No. EPA-HQ-OAR-2013-0711. All documents in the docket are listed on the <http://www.regulations.gov> Web site. Although listed in the index, some information is not publicly available, *i.e.*, confidential business information or other information whose disclosure is restricted by statute. Certain other material, such as copyrighted material, will be publicly available only in hard copy. Publicly available docket materials are available either electronically in <http://www.regulations.gov> or in hard copy at

the Docket ID No. EPA-HQ-OAR-2013-0711, EPA/DC, William Jefferson Clinton West Building, Room 3334, 1301 Constitution Avenue NW., Washington, DC. The Public Reading Room is open from 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number for the Public Reading Room is (202) 566-1744 and the telephone number for the Air and Radiation Docket Information Center is (202) 566-1742. For additional information about the EPA's public docket, visit the EPA Docket Center homepage at: <http://www.epa.gov/epahome/dockets.htm>.

**FOR FURTHER INFORMATION CONTACT:** For further general information on this rulemaking, contact Dr. Larry D. Wallace, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, by phone at (919) 541-0906, or by email at [wallace.larry@epa.gov](mailto:wallace.larry@epa.gov); or Mr. Rich Damberg, Office of Air Quality Planning and Standards, U.S. Environmental Protection Agency, by phone at (919) 541-5592, or by email at [damberg.rich@epa.gov](mailto:damberg.rich@epa.gov).

#### SUPPLEMENTARY INFORMATION:

##### I. General Information

###### A. Does this action apply to me?

Entities potentially affected directly by this final rulemaking include state, local and tribal governments. Entities potentially affected indirectly by this final rulemaking, depending on how state, local and tribal agencies choose to regulate such entities in the future, include owners and operators of sources of SO<sub>2</sub> emissions (such as coal-fired power plants, refineries, smelters, pulp and paper related facilities, waste incinerators, chemical manufacturers and facilities with industrial boilers for power generation) that contribute to ambient SO<sub>2</sub> concentrations, as well as people whose air quality is affected by these facilities.

###### B. Where can I get a copy of this document and other related information?

In addition to being available in the docket, an electronic copy of this document will be posted at: <http://www.epa.gov/air/sulfurdioxide/implement.html>. Upon its publication in the **Federal Register**, only the published version may be considered the final official version of the notice, and will govern in the case of any discrepancies between the **Federal Register** published version and any other version.

###### C. How is this document organized?

The information presented in this document is organized as follows:

##### I. General Information

- A. Does this action apply to me?
- B. Where can I get a copy of this document and other related information?
- C. How is this document organized?
- II. Background for Final Rulemaking
- III. Summary of the Final Rule Requirements
- IV. Responses to Significant Comments on the Proposed Rule
  - A. The Use of Monitoring and/or Modeling Data
  - B. Source Coverage and Emission Threshold Options
  - C. Data Requirements and Program Implementation Timeline
  - D. Technical Issues Relating to Modeling and Monitoring
  - E. Other Key Issues and Comments
- V. Environmental Justice Considerations
- VI. Statutory and Executive Order Reviews
  - A. Executive Order 12866: Regulatory Planning and Review and Executive Order 13563: Improving Regulation and Regulatory Review
  - B. Paperwork Reduction Act (PRA)
  - C. Regulatory Flexibility Act (RFA)
  - D. Unfunded Mandates Reform Act (UMRA)
  - E. Executive Order 13132: Federalism
  - F. Executive Order 13175: Consultation and Coordination With Indian Tribal Governments
  - G. Executive Order 13045: Protection of Children From Environmental Health and Safety Risks
  - H. Executive Order 13211: Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use
  - I. National Technology Transfer and Advancement Act
  - J. Executive Order 12898: Federal Actions To Address Environmental Justice in Minority Populations and Low-Income Populations
  - K. Congressional Review Act (CRA)
  - L. Judicial Review

##### II. Background for Final Rulemaking

On May 13, 2014, the EPA proposed the Data Requirements Rule (DRR) for the 2010 1-hour SO<sub>2</sub> Primary NAAQS. The preamble to the proposal provided a discussion of the events that led to the EPA's proposal of a new regulation to direct state, tribal and local agencies<sup>1</sup> to better characterize ambient air SO<sub>2</sub> concentrations near large polluting sources. See 79 FR 27447, May 13, 2014. This discussion addressed the adoption of the 2010 SO<sub>2</sub> NAAQS and the suggested implementation approach described in the preamble of that rulemaking; the area designations process under section 107 of the Clean Air Act (CAA); the history of

<sup>1</sup> The final rule applies to air agencies in all states. The definition of "state" in section 302(d) of the Clean Air Act (CAA or Act) means a state, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, and American Samoa and includes the Commonwealth of the Northern Mariana Islands.

designations for prior SO<sub>2</sub> NAAQS, including the use of air quality modeling information; the Agency's subsequent issuance of an implementation white paper in May 2012 and input received from stakeholder groups; and the EPA's February 2013 SO<sub>2</sub> NAAQS implementation and designations strategy paper, developed in response to feedback received through this outreach process.<sup>2</sup> This final rulemaking notice does not repeat all of that discussion, but refers interested readers to the preamble of the proposed rule for this informative background.

The proposed rule noted that although the current SO<sub>2</sub> ambient monitoring network included more than 400 monitors nationwide, the scope of the network had certain limitations, and approximately two-thirds of the monitors are not located to characterize maximum 1-hour SO<sub>2</sub> concentration impacts from emissions sources. To more effectively assess potential public health impacts from exposure to high SO<sub>2</sub> concentrations, the proposed rule presented options for requiring air agencies to characterize air quality in the vicinity of large sources of SO<sub>2</sub> emissions that exceed specified annual emissions thresholds. The EPA's proposed preferred emissions threshold option specified that air agencies would be required to characterize air quality in the vicinity of sources that emit over 1,000 tons of SO<sub>2</sub> per year and are located in more highly populated areas (*i.e.*, Core-Based Statistical Areas (CBSA) with population of at least 1 million), and in the vicinity of sources that emit over 2,000 tons of SO<sub>2</sub> per year and are located outside metropolitan areas of at least 1 million population. The EPA also identified two other emission threshold options and requested public comment on these potential emission thresholds values, a CBSA population threshold of 1 million, the combination of emissions and population thresholds as a means of determining how SO<sub>2</sub> sources would be identified, and on any possible alternatives. Under the proposed approach, air agencies, or the EPA, also could require air quality characterization around other sources, if warranted. *See* 79 FR 27453, May 13, 2014.

Under the proposed rule, air agencies would determine for each emissions source exceeding the threshold whether

air quality characterization for that source would be done either through air quality modeling analysis or by conducting ambient monitoring. Apart from the proposed rule, the EPA issued two draft technical assistance documents (TADs) on modeling and monitoring to assist air agencies with this analytical work. The proposed rule also described a process and timetable by which air agencies would be required to identify sources to be characterized, conduct the relevant analyses and submit such data to the EPA. *See* 79 FR 27456, May 13, 2014.

Specific technical considerations regarding air quality monitoring and modeling were also discussed in the proposed rule, along with options for ongoing verification of the air quality characterization in areas that are not otherwise designated as nonattainment. *See* 79 FR 27460, May 13, 2014. The proposal also discussed incentives for air agencies and sources to work together to establish federally enforceable limits on emissions expeditiously in order to avoid requirements for air quality characterization altogether. We refer readers to the proposed rule for the technical, policy and legal rationale that were presented in support of the proposal, and for a complete discussion of the issues for which the EPA requested public comment. Several supporting memoranda, analyses and data were included in the docket for the proposed action.

The 60-day public comment period for the proposed rule closed on July 14, 2014. In section IV of this preamble, we summarize each key issue from the proposal, briefly summarize major comments received and provide a response, and describe the final policy in the rule, including any changes made to the approaches presented in the proposal. A more detailed response to comments document can be found in the docket for this rulemaking.

### III. Summary of the Final Rule Requirements

This section provides a brief summary of the requirements of the final rule. Further discussion of the basis for these requirements and responses to significant comments are provided in the next section. The EPA believes that the approach set forth in this rule directing air agencies to gather additional data to characterize ambient air in the vicinity of larger SO<sub>2</sub> sources is uniquely suited for implementation of the 1-hour SO<sub>2</sub> NAAQS, and the Agency does not anticipate it to be used for other NAAQS pollutants. The final rule establishes minimum requirements for

air agencies to characterize 1-hour SO<sub>2</sub> air quality concentrations across the country, with an emphasis on doing so in the vicinity of sources that have the largest annual SO<sub>2</sub> emissions. Note that there are already minimum SO<sub>2</sub> ambient monitoring requirements in place that were established when the 1-hour SO<sub>2</sub> NAAQS was adopted. *See* 75 FR 35520, June 22, 2010. The requirements in the present rule supplement those monitoring requirements, which remain in place. As discussed in more detail in the next section, these requirements are intended to establish a flexible yet effective program for characterizing SO<sub>2</sub> air quality in priority areas across the country, given existing funding and resource constraints, and given the particular characteristics of SO<sub>2</sub> air pollution in the affected areas. This final rule also reflects the fact that numerous larger sources of SO<sub>2</sub> across the country have in recent years installed, and are expected to install in the near future, additional control measures that may substantially reduce SO<sub>2</sub> emissions in some cases.

Under this rule, each air agency is required to submit a list to the EPA by January 15, 2016, that identifies all sources within its jurisdiction that have SO<sub>2</sub> emissions that exceeded the 2,000 tons per year (tpy) annual threshold during the most recent year for which emissions data for that source are available, plus any additional sources and their associated areas identified by the air agency or by the EPA as also warranting air quality characterization. (The list is a permanent list of prioritized sources that excludes sources in areas designated as nonattainment before January 2016 and is not altered by designations after January 2016.) The rule requires air quality characterization of the area associated with each listed source, and provides two options for this characterization, namely the use of monitoring or modeling. The final rule also provides a third option, under which air agencies would establish a limit requiring emissions from a listed source to be below the 2,000 tpy threshold, which, with the concurrence of the EPA Regional Administrator, would result in that source and its associated area not being subject to requirements for air quality characterization. The EPA anticipates discussions with air agencies early in 2016 to resolve any questions as to what areas warrant air quality characterization. These discussions are intended to address whether any additional areas (*e.g.*, areas with clusters of sources) warrant air quality

<sup>2</sup> The May 2012 White Paper and high-level summaries of stakeholder meetings are available at: <http://www.epa.gov/oaqps001/sulfurdioxide/Implement.html>. These documents and written comments received from stakeholders are also included in the docket for this rulemaking.



characterization, whether existing monitoring networks might serve to address air quality characterization requirements, and whether any new limits intended by the air agencies negate the need for air quality characterization.

For each source on the list, the air agency will be required to indicate by July 1, 2016, whether it will characterize air quality through ambient monitoring or through air quality modeling or, alternatively, whether it will be subjecting the pertinent source or sources to emission limit(s) that will keep the source(s) below this rule's 2,000 tpy threshold. The option identified by the air agency for each source and its associated area will determine the submittal and timing requirements for the air agency to provide the required information.

If the air agency chooses the first option, ambient monitoring for a source, the air agency must include information about the planned new monitor(s) in the annual monitoring plan that the air agency must submit to the EPA by July 1, 2016; and the air agency must also ensure that the new monitor(s) are operational by January 1, 2017. The required monitors shall be sited and operated either as State and Local Air Monitoring Stations<sup>3</sup> (SLAMS) or in a manner equivalent to SLAMS. In either case, monitors shall be subject to reporting and data certification requirements as prescribed in 40 CFR 58.15 and 58.16 (e.g., quarterly reporting of monitoring data to the Air Quality System, and the annual certification of data by May 1 of the following year), and must satisfy applicable criteria in 40 CFR part 58, appendices A, C, and E.

If the air agency chooses the second option, air quality modeling for a source, it must submit a modeling protocol for each such source to the EPA by July 1, 2016, for review and consultation with the EPA Regional Office. The modeling analyses must then be submitted to the EPA by January 13, 2017.

If the air agency chooses the third option, to provide federally enforceable emissions limitations that limit emissions of an applicable source to less than 2,000 tpy, or to provide documentation that the applicable source has permanently shut down, the air agency must notify the EPA of its decision by July 1, 2016, and provide a

description of the planned emission limitation, including identification of the level of the limitation being planned. Especially in areas with multiple sources, the limit(s) should be sufficiently low as to avert the need for air quality characterization that applies for other listed sources. Therefore, the rule requires the concurrence of the EPA as to whether the limit that the air agency intends will suffice in lieu of conducting air quality characterization. By January 13, 2017, the air agency must provide EPA with documentation demonstrating that the emission limits are federally enforceable, adopted, and require compliance by January 13, 2017, in order for areas containing such sources to avoid the need to characterize ambient SO<sub>2</sub> emissions under the rule. If EPA approval is required to make a limit federally enforceable, the submittal must be sent to the EPA early enough such that the EPA has enough time to complete a rulemaking to make the limit federally enforceable by the January 13, 2017, date.

Section IV.D of this preamble provides a discussion of selected technical considerations related to characterizing air quality, but the rule does not prescribe how an ambient monitoring network around an identified SO<sub>2</sub> source is to be designed, or how air quality modeling must be specifically done to meet the objectives of this rule. As stated in the proposal, the EPA has developed TADs that provide approaches on ambient monitoring and air quality modeling when planning and executing air quality characterization activities, and recommends that air agencies refer to these documents to support their efforts. For example, the TAD for ambient monitoring suggests potential options and recommendations on different analyses and approaches that could be considered to help the air agency site source-oriented SO<sub>2</sub> monitors in locations of expected maximum 1-hour concentrations. The TAD for air quality modeling explains that refined dispersion models are able to characterize SO<sub>2</sub> air quality impacts from the modeled sources across the domain of interest on an hourly basis with a high degree of spatial resolution. It suggests that in order to characterize recent air quality levels around a source, it would be acceptable to use actual hourly emissions data, actual meteorological data and actual stack height information as technical inputs to the modeling analysis. However, it is important to note that, except to require that monitoring be sited and operated in a manner equivalent to SLAMS and to

provide that modeling may be based on actual or allowable emissions, this rule does not promulgate any specific requirements with regard to these analytical approaches, and air agencies are expected to use their best professional judgment, consulting as appropriate with the EPA, in conducting these analyses. Air agencies should also contact their respective EPA Regional Offices regarding any additional issues beyond those addressed in the TADs.

The final rule also includes provisions specifying how characterization requirements for listed sources continue into the future (i.e., ongoing data requirements). For areas where air quality is to be characterized through ambient monitoring, the rule requires the monitoring to be conducted for the calendar years of 2017 through 2019, in order to calculate a valid design value for each area. The rule requires that air agencies (or other parties conducting the monitoring) continue the operation of all existing and new monitors used to meet the requirements of this rule. However, it also provides for the possibility that an air agency may obtain EPA approval to terminate operation of a monitor that was established to meet the requirements of this rule if the air quality values at the monitor are low enough to meet specific criteria. Following commencement of operation of a new monitor, the air agency may seek EPA approval to terminate operation of the monitor pursuant to § 51.1203(c)(3) of this rule, if the monitored design value for the first 3-year period or second 3-year period is no greater than 50 percent of the 1-hour SO<sub>2</sub> NAAQS. After the fourth year following commencement of operation of a new monitor, the air agency may be able to seek approval to shut down the monitor if it meets the criteria specified in existing regulations at 40 CFR 58.14.

For areas that were characterized using air quality modeling, the ongoing data requirement applies only where the modeling was based on actual emissions and where the area has not subsequently received a nonattainment designation. In such cases, the air agency will be required to submit an annual report to the EPA providing updated emissions information and recommending to the EPA whether further modeling is warranted to assess any expected changes in recent air quality. For example, it may be appropriate for the air agency to conduct updated modeling for an area if there have been increases in short term emissions rates, an increase in annual emissions, or changes in facility operations. Where warranted, the air agency shall conduct

<sup>3</sup> The SLAMS network is an air quality surveillance system that consists of a network of monitoring stations designated as SLAMS which measure ambient concentrations of those pollutants for which standards have been established in 40 CFR part 50.



updated modeling to characterize air quality in light of the identified emissions changes and present the results in its annual report to the EPA. Analogous to the monitor shutdown provisions noted earlier, the requirement for the annual emissions assessments for an area originally characterized by modeling may be terminated if the air agency provides a modeling analysis demonstrating that actual emissions in the previous year for SO<sub>2</sub> sources in the area results in a modeled design value that does not exceed 50 percent of the NAAQS at any receptor within the modeling domain. While the annual assessment requirement under this rule would be terminated in such cases, any other EPA requirements to provide data (e.g., for the Air Emission Reporting Rule (AERR)) would not be affected.

The EPA received more than 80 comments on the proposed rule. Taking into consideration the range of comments received, the EPA made a number of revisions that are reflected in the final rule, including the following:

- The source emissions threshold approach was changed to a single 2,000 ton annual SO<sub>2</sub> emissions level, so the final rule does not include thresholds that vary depending on the population of the area.
- Air agencies still need to identify in January 2016 a list of sources in their jurisdiction for which air quality is to be characterized, but they now have until July 2016 to indicate whether, for each source, they plan to use modeling or monitoring to characterize air quality, or to adopt an enforceable emissions limit. (The rule clarifies that this list would not include any source located in an area already designated as nonattainment for the 2010 SO<sub>2</sub> NAAQS.) The approach in the proposal would have required the air agency to indicate its planned approach for each source in January 2016.

- The final rule also includes a set of monitor shutdown provisions that is a hybrid of the options included in the proposed rule and the existing monitor shutdown provisions in 40 CFR part 58. A monitor required under this rule would be eligible for shutdown if it has a design value less than 50 percent of the SO<sub>2</sub> standard during one of the first two 3-year periods of operation. After this point in time, any potential shutdown would need to meet the basic shutdown provisions that apply for SLAMS monitors as described in 40 CFR 58.14.

- The proposal took comment on three potential approaches for ongoing requirements for air agencies to provide modeling or emissions data for areas

that were originally characterized with modeling based on actual emissions data. As noted earlier, the approach in the final rule requires the air agency to provide emissions data to the EPA annually for all sources not designated as nonattainment, and to recommend to the EPA whether an emissions change was substantial enough to warrant updated air quality modeling.

- A number of commenters suggested that an air agency should be able to avoid the air quality characterization requirement for a source if it adopted a federally enforceable requirement limiting annual emissions at the source to less than 2,000 tpy. The final rule now includes such a provision. This type of limit would need to be adopted and in effect by January 2017.

#### IV. Responses to Significant Comments on the Proposed Rule

##### A. The Use of Monitoring and/or Modeling Data

###### 1. Legal Authority To Require States To Submit Data Pursuant to This Rule

###### a. Summary of Proposal

In the proposed rule, the EPA explained that the requirements for the air agency to submit the SO<sub>2</sub> monitoring and modeling data described in § 51.1203 of the proposed rule are appropriate steps needed to understand SO<sub>2</sub> air quality throughout the country, and are consistent with section 110(a)(2)(B), section 110(a)(2)(K) and section 301(a)(1) of the CAA. *See* 79 FR 27457, May 13, 2014.

###### b. Brief Summary of Comments

Some state commenters asserted that the DRR modifies the CAA and imposes new monitoring and modeling obligations on air agencies. One commenter suggested that requiring states to develop monitoring or modeling data in accordance with this proposal modifies the statutory mandate to designate all areas by June 2013 because the EPA intends to use these data for designations. One industry commenter stated it is not appropriate to replace the CAA's statutory directive for designations with extra-statutory provisions like those proposed in the DRR.

Several state and industry commenters stated that the proposed requirements and schedules conflict with requirements that apply to the EPA to timely complete designations under section 107 of the CAA. These commenters stated that the CAA required the EPA to make area designations under the new SO<sub>2</sub> standard no later than June 3, 2013, and

that the EPA failed to comply with that mandatory obligation. Therefore, the commenters claimed, the DRR proposal's discussion of a schedule for issuing designations by December 2020 is beyond the EPA's authority. One state commenter cited *EME Homer City Generation LP v. Env't'l Prot. Agency*, 696 F. 3d 7, 27 (D.C. Cir. 2012) and stated that the DRR cannot stand as proposed because it fails to follow the mandatory timelines for promulgating area designations, and, therefore, exceeds the EPA's statutory authority.

##### c. EPA Response

The comments that assert that the EPA has not designated areas under the 2010 SO<sub>2</sub> NAAQS in a timely manner are beyond the scope of this rulemaking, and are not germane to the issue of the EPA's statutory authority to direct air agencies to conduct monitoring or modeling to further characterize ambient air concentrations of SO<sub>2</sub>. Through this rulemaking, the EPA is not establishing or modifying any area designation requirements provided for in section 107 of the CAA, nor does any aspect of this final rule conflict with any provision of section 107 that directs states and the EPA to take timely action to issue designations. The purpose and effect of this rulemaking is to require air agencies to characterize air quality in priority areas throughout the country where existing ambient monitors may not be adequately characterizing peak 1-hour SO<sub>2</sub> ambient air concentrations. The air quality data obtained as a result of this rulemaking then may be used in future analytical actions by the EPA, including designations of any undesignated areas or redesignations of already designated areas. It is true that in the proposed rule preamble we discussed how the timing of the implementation of this rule would fit with our intended schedule for completing area designations, but the proposal did not itself purport to establish a binding schedule for completing designations.

The EPA notes that litigation was filed against the EPA to compel the Agency to complete designations under CAA section 107, and on March 2, 2015, the court in one of those cases issued a ruling that places the EPA on a binding schedule to complete area designations for the 2010 1-hour SO<sub>2</sub> NAAQS. *See, Sierra Club, et al. v. McCarthy*, Case No. 13-cv-03953-SI (N.D. Cal., March 2, 2015) (Order Granting Joint Motion To Approve And Enter Consent Decree And Denying Other Motions As Moot; and Consent Decree). Copies of the court's order and the March 2015 consent decree setting forth the EPA's schedule

for completing designations have been placed in the docket for this rulemaking. Under the schedule ordered by the court, the EPA is required to complete the designations in no more than three future rounds.

First, by July 2, 2016 (16 months from the date of the court's order), the EPA must sign a notice for publication in the **Federal Register** that promulgates designations for remaining undesignated areas that: (a) Based on air quality monitoring in the three full calendar years preceding that date have monitored violations of the NAAQS; or (b) contain any stationary source that has not by March 2, 2015, been "announced for retirement" and that, according to data in the EPA's Air Markets Database, either (1) emitted more than 16,000 tons of SO<sub>2</sub> in 2012, or (2) emitted more than 2,600 tons of SO<sub>2</sub> and had an annual average emission rate of 0.45 lbs. SO<sub>2</sub>/Mmbtu or higher in 2012. (The March 2015 consent decree defines "announced for retirement" as meaning "any stationary source in the United States with a coal-fired unit that as of January 1, 2010, had a capacity of over five (5) megawatts (MW) and that has announced it will cease burning coal at that unit through a company public announcement, public utilities commission filing, consent decree, public legal settlement, final state or federal permit filing, or other similar means of communication.")

Second, by December 31, 2017, the EPA must sign such a notice promulgating designations for remaining undesignated areas in which, by January 1, 2017, states have not installed and begun operating a new SO<sub>2</sub> monitoring network meeting EPA's specifications referenced in this rulemaking. Finally, by December 31, 2020, the EPA must sign a notice promulgating designations for all remaining undesignated areas.

The EPA notes that the schedule imposed by the court will allow at least the latter two stages of designations to be informed and benefited by the additional information that is timely obtained pursuant to this final rule, as appropriate. However, we also note that the round of designations that is required to be completed by July 2, 2016, will likely be conducted before state air agencies and the EPA will have been able to implement this final rule, and will instead rely upon data and information that is separately developed or obtained during the designations process. Nevertheless, as explained later in this document, depending on how those areas become designated in 2016, the rule may still result in additional

information that could inform future assessments of attainment status for such areas.

The EPA continues to believe that the requirements of this rule for air agencies to submit a list of sources where further air quality characterization is needed, and the other data submittal requirements found in § 51.1203 of this rule, are appropriate steps needed to better understand SO<sub>2</sub> air quality throughout the country, and are consistent with section 110(a)(2)(B), section 110(a)(2)(K), and section 301(a)(1) of the CAA. The commenters did not challenge this view. Section 110(a)(2)(B) indicates that State Implementation Plans (SIPs) are to "provide for establishment and operation of appropriate devices, methods, systems, and procedures necessary to (i) monitor, compile and analyze data on ambient air quality and (ii) upon request, make such data available to the Administrator." Section 110(a)(2)(K) states that SIPs shall "provide for (i) the performance of such air quality modeling as the Administrator may prescribe for the purpose of predicting the effect on ambient air quality of any emissions of any air pollutant for which the Administrator has established a NAAQS, and (ii) the submission, upon request, of data related to such air quality modeling to the Administrator." Section 301(a)(1) provides the EPA with general authority to establish regulations as necessary to carry out the agency's functions, which in this case includes ensuring the attainment of the SO<sub>2</sub> NAAQS throughout each state. This section states that "The Administrator is authorized to prescribe such regulations as are necessary to carry out his functions under this chapter."

The EPA often establishes and revises monitoring requirements for implementing NAAQS. Those requirements will not necessarily always generate new information in time to inform timely area designations under CAA section 107. *See, e.g.*, 75 FR 81126, 81130, December 27, 2010. The validity of such rules does not depend upon whether information generated pursuant to those requirements will be gathered in time to support designations that are timely under section 107. Here, the commenters have raised no objection to the central premise of the rule, which is that additional information that better characterizes air quality near larger sources of SO<sub>2</sub> is warranted and is authorized to be required under sections 110 and 301 of the Act. Irrespective of when the EPA uses this information—for example, irrespective of whether the EPA

promulgates initial designations of "unclassifiable" (and then uses the information collected pursuant to this data requirements rule in later redesignations), or whether the EPA promulgates the remaining designations after the information required here becomes available—the EPA believes that this rule is authorized and is warranted. Therefore, in this final rulemaking, the commenters have provided no basis for the EPA to not require air agencies to submit such SO<sub>2</sub> monitoring and modeling data to the EPA, as proposed. The final rule is fully consistent with the Agency's broad authority under section 110 and 301, as well as with the EPA's authority under CAA section 114(a)(1) to direct any person to provide information as is reasonably required to improve characterization of ambient air quality near larger sources of SO<sub>2</sub>.

## 2. Legal Authority To Base Air Quality Evaluations on Modeling Data

### a. Summary of Proposal

In the proposal, the EPA stated that existing air quality modeling tools are technically sound and historically have been used to characterize SO<sub>2</sub> air quality when monitoring data were not available; therefore, the EPA considers these modeling tools appropriate for assessing air quality impacts from SO<sub>2</sub> emissions. The EPA stated that historical use of modeling to characterize SO<sub>2</sub> air quality concentrations has been affirmed as technically valid and lawful under the CAA by reviewing courts. *See* 79 FR 27448, May 13, 2014.

### b. Brief Summary of Comments

Some industry group commenters stated that the DRR provisions allowing for modeling to characterize ambient SO<sub>2</sub> concentrations go beyond what is necessary to comply with the CAA, arguing that 40 CFR 50.17 provides that monitoring is the sole basis for determining attainment. Commenters stated that the precise wording of 40 CFR 50.17 establishes ambient air monitoring as the only basis for determining if the SO<sub>2</sub> NAAQS is being met because it specifies that:

(a) The level of the national primary 1-hour ambient air quality standard for oxides of sulfur is 75 parts per billion (ppb, which is 1 part in 1,000,000,000), measured in the ambient air as SO<sub>2</sub>.

(b) The 1-hour primary standard is met at an ambient air quality monitoring site when the 3-year average of the annual (99th percentile) of the daily maximum 1-hour average

concentrations is less than or equal to 75 ppb, as determined in accordance with appendix T of this part.

(c) The level of the standard shall be measured by a reference method based on appendix A or A-1 of this part, or by a Federal Equivalent Method (FEM) designated in accordance with part 53 of this chapter.

One public interest group commented that the provisions in the proposed DRR for conducting modeling are consistent with the EPA's historic use of air dispersion modeling for multiple NAAQS implementation purposes. This public interest group stated that dispersion modeling has a lengthy history as an appropriate tool for use in SO<sub>2</sub> designations and other actions, and provided several references to the EPA's documents and to court rulings to demonstrate that historic use.

In contrast, without disputing the fact that the EPA has often relied upon modeling to inform decisions implementing the SO<sub>2</sub> NAAQS, several state and industry commenters stated that monitoring, not modeling, has historically been used for designation of areas as attainment or nonattainment under this and other NAAQS. Several industry commenters supported the EPA's use of notice-and-comment rulemaking through the DRR to address certain major issues, including the use of monitoring and/or modeling to characterize air quality and make remaining area designations.

#### c. EPA Response

This final rule does not make any decisions or determinations regarding whether any area is in fact meeting or not meeting the NAAQS based on either monitoring or modeling information. Those decisions will be made in separate future actions, or have already been made for some areas in prior actions. *See e.g.*, 78 FR 47191, August 5, 2013. Therefore, this final rule does not take final action on the issue of whether it is permissible to implement the commenter's previous quoted provisions of 40 CFR 50.17(a)–(c) based on a combination of both monitoring and modeling information where both are available, or exclusively on modeling information where appropriate modeling information is available and monitoring is not. The commenters' objections appear to focus on how future-gathered information resulting from the rule may or can be used in subsequent NAAQS implementation actions, but the focus of this rule is on the initial gathering of the information itself. In future designation, redesignation, or other implementation actions, commenters may raise their

objections to the validity of information that the EPA relies upon in those specific actions, but such objections are beyond the scope of this final rule.

The commenters appear to be raising objections that were also raised after the EPA's promulgation of the 2010 SO<sub>2</sub> NAAQS, in response to the EPA's final rule preamble discussion explaining the Agency's then-intended implementation approach under the NAAQS. In their petitions for judicial review of the NAAQS, several states claimed that the EPA's discussion of the intended use of modeling in NAAQS implementation contravened the regulatory text of § 50.17. However, noting that the petitioners' claims addressed potential final implementation actions that had not yet in fact occurred, the U.S. Court of Appeals for the D.C. Circuit dismissed the petitioners' claims without addressing their merits, or lack thereof. *See National Environmental Development Association's Clean Air Project v. EPA*, 686 F.3d 803 (D.C. Cir. 2012). Likewise here, the EPA is not yet taking any action to apply modeling regarding any decision of whether an area is or is not meeting the NAAQS.

In any event, we note that although 40 CFR 50.17(a)–(c) very clearly sets forth the criteria for determining whether the NAAQS is met at a monitoring site, it does not by its terms restrict how such decisions may be made more broadly in areas impacted by SO<sub>2</sub> sources, including areas where there are no monitoring sites or where monitors are not sited at the point of maximum ambient concentration. Indeed, it is the relative scarcity of such monitors that has caused the EPA to undertake this rulemaking to enable states and the Agency to better understand just what the ambient air impacts are from larger sources of SO<sub>2</sub>, which may not be captured by the current limited monitoring network. It is true that past area designations processes for most NAAQS (such as for ozone) having violations caused and contributed to by multiple sources over a broad region have relied primarily on air quality monitoring data to identify areas that violate the standard. However, it is important to note, as the EPA explained in the final 2010 SO<sub>2</sub> NAAQS preamble, that there is a long history of also using dispersion modeling information to inform area designations for the SO<sub>2</sub> NAAQS. *See, e.g.*, 75 FR 35551, June 22, 2010.

The EPA and the air quality management community have recognized over many years that peak concentrations of SO<sub>2</sub> are commonly caused by one or a few major point sources in an area, and that peak

concentrations are typically observed relatively close to the source. Many factors influence the observed SO<sub>2</sub> concentrations around emissions sources, including the sulfur content of fuel that is combusted, the sulfur content of material being heated as part of an industrial process, the rate of SO<sub>2</sub> emissions per hour, stack height, topography, meteorology, monitor location and source operating schedule. But because ambient SO<sub>2</sub> concentrations are not the result of complex atmospheric chemical reactions (unlike ozone or PM<sub>2.5</sub>), they can be modeled accurately using well-understood air quality modeling tools, especially in areas where one or only a few sources exist. In the 1970's, when the original SO<sub>2</sub> NAAQS were established, there were significantly more SO<sub>2</sub> monitors in operation nationally than today. Even then, the EPA and air agencies acknowledged the utility of modeling in order to inform area designations under the SO<sub>2</sub> NAAQS. *See e.g.*, 43 FR 45993, October 5, 1978.

#### 3. The Use of Monitoring and/or Modeling for Making Decisions About Air Quality

##### a. Summary of Proposal

In the proposed rule, the EPA explained that the current ambient SO<sub>2</sub> monitoring network, on the whole, is not appropriately positioned, or of adequate size, for purposes of the 2010 SO<sub>2</sub> standard to characterize the air quality around many of the nation's larger SO<sub>2</sub> sources in operation today. The EPA stated that, because ambient SO<sub>2</sub> concentrations are not the result of complex chemical reactions (unlike ozone or PM<sub>2.5</sub>), they can be modeled accurately using well understood air quality modeling tools, especially in areas where one or only a few sources exist. However, the EPA noted that some areas may not be conducive to modeling, and for such areas the EPA encouraged air agencies to consider using enhanced monitoring to characterize air quality. *See* 79 FR 27448, May 13, 2014.

##### b. Brief Summary of Comments

Several state and industry commenters supported the provision in the proposed rule allowing air agencies to have the option to use modeling and/or monitoring to characterize SO<sub>2</sub> ambient air concentrations, as it provides appropriate flexibility for both the states and affected sources. Several commenters supported the EPA's observation that modeling may not be appropriate for all SO<sub>2</sub> evaluation scenarios, and supported the ability of



states to choose to evaluate NAAQS attainment through either dispersion modeling or ambient monitoring. However, several state and industry commenters cautioned that monitoring data should be the primary basis for such decisions, especially designating nonattainment areas. Several commenters claimed that, as modeling is frequently affected by factors such as emissions inputs, meteorological data and local geography, it is not as accurate or reliable as real-time, multiple-year monitoring. Other commenters claimed that modeling is advantageous because it characterizes air quality in all directions around a source with appropriate accuracy and can be done with less expense than ambient monitoring, which only characterizes air quality at a single location. Some industry commenters suggested the text of proposed § 51.1201 be revised to state that monitoring is the EPA's preferred analytical approach under the rule.

#### c. EPA Response

The EPA agrees with commenters who stressed the need to give air agencies the option to characterize SO<sub>2</sub> ambient air quality through either enhanced monitoring or modeling, and the EPA is maintaining that approach in this final rule. The EPA believes that the commenters have not presented any persuasive reasons for changing the basic positions previously discussed in the preamble to the final rule of the 2010 SO<sub>2</sub> NAAQS rulemaking, the February 2013 Strategy Paper, or in the proposed rule for why both air quality modeling and ambient monitoring are appropriate tools for characterizing ambient air quality for purposes of informing future decisions to implement the SO<sub>2</sub> NAAQS. However, as explained earlier, in this final rule the EPA is not taking final action to make any determinations regarding any area's status with respect to attaining or not attaining the NAAQS, but is only prescribing criteria and a process for how and when air agencies are to gather and provide to the EPA additional needed information. How the information is used in subsequent actions evaluating the attainment status of specific areas will depend upon the information that air agencies collect in the future and what it shows about areas' ambient air quality.

#### B. Source Coverage and Emission Threshold Options

##### 1. Summary of Proposal

In the proposal, the EPA recognized that the characterization of air quality in areas around more than 20,000 SO<sub>2</sub>

sources nationally would not be feasible. The proposal stated that the key objective to be achieved by using SO<sub>2</sub> source emission thresholds would be to focus the limited available resources at the state, tribal, local and federal levels toward characterizing air quality in areas having the largest SO<sub>2</sub> emitting sources due to the fact that larger sources can be expected to be the most likely potential contributors to violations of the SO<sub>2</sub> NAAQS. The EPA stated in the proposed rule that, just as NAAQS ambient monitoring networks are designed to measure air quality in areas meeting specific criteria where the public is likely to be exposed and violations may be likely to occur, the SO<sub>2</sub> annual emission threshold options in the rule are designed to meet a similar objective. *See* 79 FR 27453, May 13, 2014.

In considering how to develop effective options for identifying the minimum set of sources around which states would be required to characterize ambient air quality, we considered three important issues and requested comment on each:

- What would be an appropriate emissions metric for identifying sources?
- Should the threshold options require characterization of smaller sources in areas with higher populations?
- What would be an appropriate threshold for identifying sources near which air quality is to be characterized?

The notice of proposed rulemaking also addressed a number of additional elements of the implementation of these thresholds. In the discussion below, the EPA summarizes these additional proposed features, summarizes comments on these proposed features, and describes the EPA's responses. Note that this section is structured so that all the issues related to emissions thresholds are presented together before proceeding to the comment summaries on these issues, and then to the EPA's responses and final decision.

a. Emissions Metric: What would be an appropriate emissions metric for identifying sources?

The proposal presented a discussion about what emissions-related metric would be most appropriate for this rule. The proposal noted that for the 1-hour SO<sub>2</sub> NAAQS, the ideal metric for identifying sources near which air quality is to be characterized would be a 1-hour SO<sub>2</sub> emissions rate. However, the EPA observed that while 1-hour SO<sub>2</sub> emission rate data are available for most electricity generating units (EGUs)

because they operate continuous emission monitors, many non-EGUs do not operate continuous emission monitors on all emission points and produce 1-hour data. For this reason, the proposal stated that the emissions threshold options presented in this rulemaking should be expressed in terms of annual emissions of SO<sub>2</sub> because annual emissions information is readily available for all large SO<sub>2</sub> sources.

The EPA requested comment on the use of annual emissions (*i.e.*, tons of SO<sub>2</sub> per year) as the metric to be used for an emissions and population-based threshold approach, or, alternatively, for a solely emissions-based threshold approach, to identify SO<sub>2</sub> sources around which further ambient air quality characterization with respect to the 1-hour SO<sub>2</sub> NAAQS might be required. The EPA also requested comment on any potential alternative factors that should be considered for defining emissions thresholds, along with any information about the availability of data related to any alternative factor for all SO<sub>2</sub> sources nationally, the time and resources needed to develop a database for this alternative factor, any associated technical analysis and rationale for using these other factors in defining source thresholds. *See* 79 FR 27454, May 13, 2014.

b. Should the threshold options require air quality characterization near smaller sources in areas with higher populations?

In the proposed rule, the proposed emissions threshold option and the other two options on which the EPA requested comment each had a "two-pronged" form. Each potential option was expressed with a higher emissions threshold for identifying sources located outside of CBSAs with a population equal to or greater than 1 million persons, and a lower emissions threshold for identifying sources located within such CBSAs. The reasoning given for this proposed approach was that a lower threshold for urban sources could help increase public health protection because there are more people in an area that could be impacted by relatively smaller sources. The EPA requested comment on its proposed use of the 1 million person CBSA population threshold for representing the population exposure component of the source threshold options in this rule. The EPA also requested comment on whether to include a population exposure-based threshold at all; and on whether alternative, or additional, criteria would

be appropriate to further focus resources on characterizing air quality in areas with a higher likelihood of population exposure. *See* 79 FR 27455, May 13, 2014.

c. What is an appropriate threshold level or levels for identifying sources near which air quality is to be characterized?

The EPA proposed one preferred option and took comments on two additional options. Option 1 (proposed preferred option) would require ambient air quality characterization around any source with annual emissions greater than 1,000 tpy and which is located within a CBSA having 1,000,000 or more persons, and around sources with emissions greater than 2,000 tpy located outside CBSAs having 1,000,000 or more persons. Option 2 would require ambient air quality characterization around sources with emissions greater than 2,000 tpy that are located within any CBSA having 1,000,000 or more persons, and around sources with emissions greater than 5,000 tpy located outside CBSAs having 1,000,000 or more persons. Option 3 would require ambient air quality characterization around sources with emissions greater than 3,000 tpy that are located within any CBSA having 1,000,000 or more persons, and around sources with emissions greater than 10,000 tpy located outside CBSAs having 1,000,000 or more persons.

The EPA requested comment on the preferred option and the other two options described in the proposal. The EPA also requested comment on any possible alternatives that might be appropriate for consideration. The EPA requested comment on the scope of sources for which we would require data. In addition, the EPA also requested any information identifying sources that would be identified by these options but that have confirmed documentation to show that they will shut down in the next several years.

d. Discretion for Air Agencies and the EPA To Address Additional Sources

The EPA noted in the proposed rule that, in addition to meeting the requirements to provide information regarding areas with sources over the future promulgated thresholds, there may still be situations where an air agency would need to characterize air quality for other sources below the thresholds; specifically, where the air agency, or the EPA Regional Administrator, determines that they may have the potential to violate the NAAQS. Application of air quality characterization requirements was noted

to be possibly warranted, for example, where multiple smaller sources located in close proximity may collectively exceed the emissions thresholds and/or cause or contribute to NAAQS exceedances. *See* 79 FR 27455, May 13, 2014.

## 2. Summary of Comments

This section provides a brief summary of comments received on each of the four source threshold issues identified previously, as well as additional features of the EPA's proposed implementation of thresholds.

### a. Comments on an Appropriate Emissions Metric

Most commenters that addressed the emissions metric issue supported using annual SO<sub>2</sub> emissions (in tpy) as the appropriate metric for defining source thresholds. Several commenters stated that it is most appropriate to evaluate annual emissions since these data are widely reported to the EPA and are readily available. Some industry commenters stated that using an annual emissions based threshold approach for identifying areas to be evaluated would serve to make more manageable the demands on state, tribal, local and federal resources. Several other commenters stated that the use of additional factors such as stack height, 1-hour SO<sub>2</sub> emission rate, proximity to sensitive populations, and topography would make the source identification process unnecessarily difficult and time consuming. On the other hand, a few regulatory agency commenters urged the establishment of supplemental criteria based on short-term spikes in emissions.

### b. Comments on Whether the Options Should Require Characterization Near Smaller Sources in Areas With Higher Populations

A number of state and industry commenters supported the application of a lower emission threshold in urban areas. Some commenters stated that population centers represent locations of higher potential public exposure and, therefore, characterization of air quality in these areas would be more representative of the public's SO<sub>2</sub> exposure risk. Several state and industry commenters stated that a threshold approach based purely on emissions could inappropriately focus limited resources on areas with limited to no public exposure. Some state commenters noted that, as a precedent, a population threshold has been used to establish the minimum monitoring requirements for the SO<sub>2</sub> NAAQS as well as the NAAQS for nitrogen dioxide,

carbon monoxide, and particulate matter.

Some commenters stated that many sources located within an existing CBSA are located on the edge of the boundary in less populated areas and urged the EPA to consider more refined census data based on population density. One industry commenter suggested, for example, that the EPA could use population density data around the affected facilities out to a radius of 10 kilometers (km) and, if average population density from the 2010 census in this area exceeds a certain threshold (e.g., 100 persons/square km), then the lower emissions criteria would be used. Some tribal commenters, some environmental group commenters, and some state commenters recommended against applying different thresholds in less populated areas, in order to assure that all areas are equally protected against violations of the air quality standard.

### c. Comments on Source Threshold Options

One public interest group and several states urged the EPA to adopt the proposed Option 1 level of 1,000 tpy, but apply it uniformly, regardless of population in order to ensure a basic level of health protection to people who live around the sources. Some commenters stated that because modeling has shown that sources with emissions below 2,000 tpy have the potential to cause or contribute to modeled NAAQS violations, an emissions threshold of 1,000 tpy is more appropriate to ensure that air quality characterizations are accurately capturing potential NAAQS violations.

Several state and industry commenters supported Option 2 stating it balances limited agency resources for the implementation of this rule while still allowing important SO<sub>2</sub> emission source areas to be evaluated. Some industry commenters stated Option 2 appears to be the best option because the difference between the number of sources captured by Options 1 and 2 is substantial while the difference in overall emissions covered by the two options is small.

Numerous state and industry commenters supported Option 3, stating it would apply reasonable thresholds without burdening states with unnecessary modeling or monitoring. One industry commenter stated that this option would allow states to focus their limited resources on the areas with the largest 211 sources of SO<sub>2</sub> emissions.

One industry commenter stated that if the EPA decides that either Option 1 or 2 is preferable, then the source

threshold needs to be revised to take into account the following additional factors: The distance a source is located from population centers in general and sensitive populations in particular; stack heights; topography and meteorological factors unique to the source(s); and economic conditions that will affect a source's expected SO<sub>2</sub> emissions. This commenter disagreed with the proposal's statement explaining why the Agency does not believe it necessary for air agencies to consider such factors, stating that the lack of a nationwide database with respect to such factors is irrelevant since the modeling is to characterize localized ambient air quality.

#### d. Comments on Discretion To Address Additional Areas

Several state and tribal commenters requested clarification of criteria the EPA would use to determine additional areas to be characterized beyond those with sources emitting more than the applicable threshold. A few commenters offered specific recommendations, for example to characterize areas of 10 km or 25 km diameters in which total emissions exceed the threshold but those of no single source exceeding the threshold. A few commenters recommended that the EPA should not have the discretion to subject additional areas to characterization unless total emissions in the areas exceed the applicable threshold. Some commenters recommended that the rule specify criteria to be used to identify multi-source areas that would need to be characterized. Conversely, some commenters recommended that the EPA not codify any specific criteria, recommending instead that the EPA provide guidance on how it envisions addressing areas with multiple sources and rely on the professional judgment of air agency personnel in consultation with the EPA to identify specific additional areas that warrant being characterized. Also, one state commenter recommended that any area "that, based on the state's knowledge, has the potential to exceed the NAAQS" should become subject to requirements for air quality characterization. Finally, a few industry commenters and a few state commenters urged that the EPA not have the discretion to subject additional areas to DRR requirements.

#### 3. EPA Response

The EPA considered the many and varied comments received on the source threshold options presented in the proposal. After considering the comments received and as explained below, the EPA has decided to establish

a requirement for air agencies to identify all sources with annual SO<sub>2</sub> emissions that exceed 2,000 tpy (using emissions data from the most recent calendar year for which such data are available) and characterize air quality around such sources according to the timeline in section IV.C of this preamble. The following subsections also address the other comments relating to applicability of the requirements for air quality characterization described previously.

##### a. Emissions Metric

The EPA agrees with the many commenters who expressed support for using an annual emissions metric because annual emissions data are most readily available for all large SO<sub>2</sub> sources, whereas 1-hour emissions rate information is not readily available for all SO<sub>2</sub> sources. Since the tpy emissions metric is a common denominator in the emissions inventory and reporting universe, the EPA believes that the use of this metric is most appropriate to be required under a rule that applies broadly to areas with sources that do not already measure 1-hour emissions rates. Using tpy will provide air agencies and the regulated community a common, easily verifiable, straightforward approach for identifying sources around which air agencies are required to characterize air quality. This approach will rely on existing emission inventory collection systems that are already in place. An approach based on tons of emissions per year also should reduce unforeseen or otherwise uneven application of the requirements for air quality characterization that could arise if different metrics are used for different SO<sub>2</sub> source sectors to identify areas for which air agencies are required to characterize air quality.

The EPA acknowledges that some state commenters suggested inclusion of a 1-hour emissions rate-based criterion for identifying certain sources with infrequent, episodic SO<sub>2</sub> emissions at atypically high rates that could impact nearby populations. The EPA notes that the emissions threshold included in the final rule establishes only minimum requirements for identifying sources. The EPA agrees with state commenters who recommended that air agencies should also characterize areas that, based on their knowledge of sources and areas, may be at risk of violating the standard. Thus, under this rule air agencies could also require characterization of air quality near sources prone to episodic emissions with relatively high rates or amounts, as appropriate. However, because short-term emissions data are not available for all SO<sub>2</sub> sources, the EPA did not include

in this rule a minimum requirement for identifying source areas needing air quality characterization based on this metric.

##### b. Characterization Near Smaller Sources in Areas With Higher Populations

The EPA considered the comments received on the issue of whether a lower emissions threshold should be included for areas with more dense populations (e.g., CBSAs greater than 1 million population). A number of commenters appeared to interpret the inclusion of a lower threshold for areas with higher population as being less protective of the public in less populated areas. The EPA wants to clarify that this was not the intention behind the population-inclusive options included in the proposed rule. The SO<sub>2</sub> NAAQS, and all NAAQS, are intended to provide equal protection for citizens throughout the country. The proposed use of both population and emissions thresholds as a means to require air quality characterization was simply one approach to focus limited federal and state modeling and monitoring resources into characterizing locations where a greater coincidence of people and SO<sub>2</sub> emissions occur, and thus a potentially greater potential for exposure is presented. After reviewing the comments on this issue, however, the EPA has decided not to move forward with the proposed preferred approach, and instead to apply requirements for air quality characterization based on emissions levels uniformly across the country for both more urbanized and less urbanized populations so as to focus primarily on the size of the sources.

It should be noted here that any monitoring that occurs pursuant to this rulemaking is potentially in addition to, or can possibly help to satisfy, required SO<sub>2</sub> monitoring stemming from 40 CFR part 58, appendix D, section 4.4. Those monitors required in 40 CFR part 58, appendix D, section 4.4 are determined using a unique metric that accounts for the coincidental occurrences of SO<sub>2</sub> emissions and population, namely the Population Weighted Emissions Index (PWEI). This rulemaking does not supplant or otherwise modify those existing requirements.

##### c. Emissions Threshold

Regarding the comments EPA received expressing preferences on the proposed emission threshold options, the EPA notes the wide range of views. A few commenters recommended alternate thresholds in the range from 1,000 tpy to 10,000 tpy, or



recommended pairs of thresholds within this range. Some commenters provided modeling analyses as an indication that sources larger than 12,000 tpy did not cause a violation of the standard, while other commenters recommended a single emissions threshold of 1,000 tpy and provided modeling analyses of different sources as an indication that sources less than 2,000 tpy caused modeled violations. These comments demonstrate that ambient SO<sub>2</sub> impacts can be variable, and are dependent on many factors other than annual emissions (such as meteorology, stack height, local topography and plant operations). These factors can only be assessed through analytical approaches, such as ambient monitoring or air quality modeling, which take many of these related factors into account simultaneously. These comments demonstrate why air quality characterization of the area around these sources is needed to protect public health in the first place.

The EPA believes that, for the purposes of establishing a minimum threshold that prioritizes the resources that will be devoted to characterizing air quality near SO<sub>2</sub> sources nationally, the 2,000 tpy source emissions threshold strikes a reasonable balance between the need to characterize air quality near sources that have a higher likelihood of contributing to a NAAQS violation and the analytical burden on air agencies. This threshold is on the lower end of the range of thresholds recommended by commenters because sources on the lower end of the range have the potential to cause or contribute to violations of the NAAQS. As compared to the preferred option in the proposal (*i.e.*, 1,000 tpy sources in CBSAs over 1 million people; 2,000 tpy sources not in CBSAs over 1 million people), the 2,000 tpy threshold would mean that, in the aggregate, air agencies would need to address air quality near about 35 fewer sources (or 7 percent fewer). Nevertheless, the total emissions addressed would still account for 89 percent of the SO<sub>2</sub> emissions nationally (based on 2011 emissions), very close to the 90 percent level that has been considered to be reasonable by many stakeholders in the past.<sup>4</sup> National SO<sub>2</sub> emissions have declined by a significant amount from 2011 to 2013 (around 1.5 million tons, or more than 20 percent), for various reasons. The EPA assessed the number of sources meeting a 2,000

tpy threshold based on 2013 emissions data now available for EGUs and 2011 emissions data for non-EGUs. Compared to the assessment in the proposal, which assessed the number of sources meeting the proposed threshold (1,000 tpy in urban areas/2,000 tpy elsewhere) based solely on 2011 data, the EPA now estimates that approximately 70 fewer sources (about 15 percent) will need nearby air quality to be characterized than was estimated in the proposal. Based on the updated data, the EPA estimates that already-designated sources plus sources currently exceeding the final threshold in this rule still would account for 86 percent of national emissions. Under this rule, each air agency will be required to identify all sources with annual SO<sub>2</sub> emissions that exceed 2,000 tpy (using emissions data from the most recent calendar year for which such data are available) and characterize air quality around such sources according to the timeline in section IV.C of this preamble.

Of course, if the trend in reduction of SO<sub>2</sub> emissions continues at individual sources, there will also be a corresponding reduction in national emissions, and both kinds of reductions are desirable for improving public health, even if that results in fewer source areas becoming subject to the emissions characterization requirements in the final rule. Conversely, if the trend reverses and source emissions increase, more sources and areas will be required to be characterized under the rule. Thus, the exact number of sources and areas that will exceed the promulgated threshold when air agencies begin characterizing areas under the rule cannot be precisely known at this time, nor can their future percentage share of the national inventory be precisely estimated. Nevertheless, the EPA believes that the promulgated threshold strikes a reasonable balance based on the information the Agency currently has regarding recent historical SO<sub>2</sub> emissions inventory levels. An analysis of potential source threshold options and associated source coverage, emissions coverage, and analytical costs is included in an EPA memorandum to the docket for this rule.<sup>5</sup>

#### d. Discretion To Address Additional Areas

Section 114(a)(1) of the CAA already provides the EPA authority and discretion to require emissions sources

to install, use and maintain monitoring equipment and provide other information as the Agency may reasonably require, even in the absence of this DRR. In addition, the EPA had several reasons for proposing as part of this rule to reinforce state and the EPA discretion to also require air quality characterization around sources with emissions below the proposed thresholds. The purpose of proposing the use of emission levels as the criterion for determining applicability of the air quality characterization requirement is that emissions provide a simple means of identifying the sources that are most likely to cause or contribute to violations of the SO<sub>2</sub> NAAQS. Nevertheless, the EPA recognizes that a variety of factors other than emission levels can influence the likelihood of NAAQS violations. As one example, source characteristics such as stack height and plume buoyancy can significantly affect source impacts. As another example, clusters of multiple smaller sources that are in close proximity can cause as much impact as a single larger source. Finally, the EPA recognizes that a variety of other reasons may exist that may warrant further characterizing air quality in particular areas, which supports maintaining state and EPA Regional Administrator discretion to require air quality characterization in the area. The EPA continues to believe that states and the EPA should retain this authority and that it would be unreasonable to restrict implicitly, via this rule, the inherent authority that air agencies already have to require sources of air pollution to measure their emissions and characterize their impacts.

For these purposes, the EPA continues to believe that the rule should make clear that states and the EPA retain the discretion to subject additional areas to the requirements for air quality characterization beyond areas with a single source exceeding the emissions threshold. The use of a simple emission threshold in the rule provides a convenient means of administering the application of the requirements for air quality characterization for the majority of cases. However, the impacts of a given level of emissions vary substantially, such that many areas with a source or sources that do not exceed the emission threshold might be known to have a high risk of contributing to NAAQS violations, potentially resulting in a higher risk of NAAQS violations than other areas exceeding the emission threshold. As a result, a rule that sets forth minimum requirements based on

<sup>4</sup> The May 2012 White Paper and high-level summaries of stakeholder meetings are available at: <http://www.epa.gov/oaqps001/sulfurdioxide/implement.html>. These documents and written comments received from stakeholders are also included in the docket for this rulemaking.

<sup>5</sup> See also: "Analysis of Source Threshold Options for the Final SO<sub>2</sub> Data Requirements Rule," memorandum to docket EPA-HQ-OAR-2013-0711, July 16, 2015.

an emissions threshold cannot reasonably be used to support an assumption that no further characterization near smaller sources is warranted, or to preclude authority that air agencies already have to investigate the impacts of such sources. Therefore, while this rule requires the air quality characterization near the above-threshold sources, the EPA and air agencies will also need to consult regarding the need for the characterization of air quality near sources below the threshold as well.

Among cases in which no single source meets the applicable emission threshold, no simple indicator is available to indicate which of these cases warrants air quality characterization. For areas with a single source, the areas could warrant air quality characterization if the stack height is low, if the plume rise is minimal, if terrain or meteorology is conducive to high impacts, and/or if emissions are just slightly below the threshold. For areas with multiple sources, concentrations are influenced not only by these stack, terrain and meteorological factors but also by the level of emissions at each source, the distances between them and the wind directions in the nearby area. The EPA appreciates the comments urging the establishment of specific criteria in the rule for identifying additional areas that warrant air quality characterization, but the EPA finds that these areas are better identified on a case-by-case basis reflecting a judgment considering the range of factors that influence the likelihood of NAAQS violations. That is, the EPA agrees with the state commenter urging that the rule provide for discretionary coverage of additional areas, such that additional areas that in the air agency's (and the EPA's) judgment have significant potential for violating the NAAQS can be made subject to requirements for air quality characterization on case-by-case bases.

Consequently, the EPA is retaining the discretion for air agencies and the EPA to require additional areas to be characterized beyond those with a source exceeding the emission threshold. However, the EPA is not revising the rule to establish specific criteria for identifying such areas; the EPA is instead relying on case-by-case evaluation of the various relevant factors to determine which additional areas warrant air quality characterization.

For areas with multiple sources, the EPA recognizes that a number of such areas may have no single source that exceeds the threshold discussed earlier and yet may have concentrations similar

to other areas with a single source exceeding the threshold. Commonly, such areas would have multiple sources clustered in relatively close proximity and would have total emissions at or above the threshold. The EPA envisions the air agencies and the EPA evaluating multiple source areas on a case-by-case basis to determine whether the areas warrant the same priority as areas where a single source has emissions above the threshold. Generally, the EPA strongly recommends that areas with multiple sources, where the combined impact would be expected to be as much as the impact of a typical single source emitting at least 2,000 tpy, should be carefully considered for air quality characterization, and we expect the EPA Regional Administrators to focus on such areas in exercising their discretion. As stated previously, a rule that sets forth minimum requirements based on an emissions threshold cannot also be reasonably used to support an assumption that no further characterization near smaller sources may be required. Therefore, in addition to requiring air quality characterization near sources above the emission threshold, the rule also preserves the discretion of the EPA and air agencies to require air quality characterization in additional areas, which will necessitate consultation on a case-by-case basis regarding the need for characterization of additional areas beyond those containing a source exceeding the threshold in this rule.

Regarding the comments recommending specific criteria for subjecting multiple source areas to the requirements for air quality characterization, the EPA believes that too many factors influence the combined impact for the EPA to establish a single set of criteria for determining whether each area warrants becoming subject to the requirements for air quality characterization. Nevertheless, for the EPA and state agencies considering using their discretion to require characterization of additional areas, the EPA believes that the recommendations of these commenters provide good suggestions for where to begin making such decisions, to be followed by a case-by-case judgment as to the expected degree of combined impacts.

In numerous cases, areas include multiple operations that previously were all part of a single source that now for business reasons have subdivided their ownership, such that the operations that previously were a single source must now be considered multiple sources. For example, in many cases, where previously the area had a

single integrated iron and steel mill, the iron- and steel-making operations now have separate ownership from the coke-making operations, such that the former single source has now become two sources. In these cases, an additional equity concern arises, that otherwise comparable facilities should not be treated differently based on a business decision that has no effect on air quality. If the combined emissions of these now separately-owned operations exceed 2,000 tpy, the impact would commonly be similar to the impacts of single facilities emitting over 2,000 tpy, and such groups of separately owned operations would thus warrant air quality characterization.

Regarding the commenters who recommended that the EPA stipulate that an area with multiple sources emitting less than the threshold should not be required to characterize air quality under the rule unless the combined emissions exceed the threshold, the EPA does not agree with this approach. Even for single source areas, the EPA is preserving the discretion air agencies and the EPA already have to require air quality characterization where the source emits less than the threshold but where concern about potential NAAQS violations warrants further air quality characterization. By the same logic, the combined impacts of multiple sources may warrant further characterization even if the combined emissions are less than the threshold.

### *C. Data Requirements and Program Implementation Timeline*

#### *1. Overall Timeline*

##### *a. Summary of Proposal*

In the proposed rule, the EPA proposed an implementation timeline addressing feedback and concerns raised in previous stakeholder meetings, which the EPA considered to provide air agencies with sufficient flexibility and time to pursue either improved monitoring or modeling to characterize air quality. The EPA designed the schedule to allow air agencies to account for SO<sub>2</sub> reductions that will occur over the next several years as a result of implementation of national and state level programs and facility decisions for complying with such requirements (such as the Mercury and Air Toxics Standards (MATS)).<sup>6</sup> The

<sup>6</sup> In 2012 the EPA promulgated the Mercury and Air Toxics Standards under Section 112 of the CAA, 42 U.S.C. 7412, that set emission limits for several hazardous air pollutants. See 77 FR 9304 (Feb. 16, 2012). Installing the technology necessary to reduce emissions directly regulated by the MATS rule has already reduced the emissions of SO<sub>2</sub>. Id.



EPA solicited comments on the feasibility of the implementation of the proposed timeline. See 79 FR 27456, May 13, 2014. The notice of proposed rulemaking also included a discussion of when the EPA envisioned the information could potentially be used in designation actions.

#### b. Brief Summary of Comments

Several state and industry commenters agreed that the EPA's proposed timeline was reasonable for acquiring data by either modeling or monitoring, and for evaluating the submitted data. Many also agreed that it would be a reasonable schedule for supporting the issuance of designations and submittal of any SIPs, provided future schedules for those actions accommodate the schedule for implementing the rule. However, a larger number of state and industry commenters asserted that the time allotted for installation of monitors was not sufficient. One state commenter stated that the feasibility of the schedule will depend upon the threshold option selected by the EPA. Another state commenter supported the timeline that the EPA proposed as long as the EPA finalizes the rule by late 2014 and added that, if promulgation is delayed, the timeline should be adjusted by as many weeks or months as the delay in finalizing the rule. Some state and industry commenters recommended an extension of at least 1 year on all the proposed actions listed in the implementation timeline. Other commenters felt that the proposed timeline was flawed for multiple reasons and is, therefore, not achievable.

#### c. EPA Response

The EPA recognizes the logistical and financial challenges that were identified by commenters with respect to the timeline. In response, the final rule contains changes to provide additional time for air agencies to determine whether to use modeling or monitoring to characterize air quality near their affected sources, discussed later in this section. However, the final rule retains the proposed deadlines for commencing monitoring or providing modeling. The Agency acknowledges that these deadlines do not provide as much time as some commenters would prefer; however, the EPA believes that these deadlines can be achieved with the appropriate planning, coordination, and program implementation by air

agencies. The EPA notes that if air agencies conclude that the timeline and resource burdens associated with installing and conducting improved monitoring are not feasible for particular areas, they may instead choose the modeling approach, which is generally less expensive and can be performed more expeditiously than monitoring, to characterize air quality. Alternatively, in some cases the source owner and the air agency may be able to establish by January 2017 a federally enforceable requirement limiting emissions to less than 2,000 tpy, with the result that further modeling or monitoring in that area would not be required under the rule unless air agencies or EPA Regional Administrators conclude it is otherwise warranted. Because the purpose of this rule is to obtain improved air quality information in an efficient manner in order that these data may be used in future actions (such as area designations, redesignations, or other actions designed to ensure attainment of the 2010 SO<sub>2</sub> NAAQS) to protect the public from the short-term health effects associated with exposure to SO<sub>2</sub> concentrations that exceed the NAAQS, the EPA believes it would not be appropriate to further extend the timelines for air quality characterization in the rule.

The EPA believes that any further delay in air quality characterization around sources identified as a result of this rulemaking would delay the implementation of the SO<sub>2</sub> NAAQS and, therefore, would impede public health protection in areas that in the future show violations of the standard based on the data to be gathered under the rule. The EPA also believes that any significant delays in monitors becoming operational past the date of January 1, 2017, will certainly delay the potential for monitoring data to be used to inform actions that depend upon ambient concentration assessments, possibly past calendar year 2021. Finally, the EPA notes that under the terms of the March 2015 consent decree, in order to avoid the EPA being required to designate an area by December 31, 2017, an air agency will need to have installed and begun operating the new SO<sub>2</sub> monitoring system no later than January 1, 2017.

The Agency believes that it is very important to maintain the proposed timetable for conducting modeling and installing monitoring sites because of the need for these new data to be

available to support future determinations concerning the attainment status of areas. The EPA encourages each air agency to engage in early dialogue with the appropriate EPA Regional Office and with the identified applicable facilities in order to meet the requirements of the rule. In particular, in light of the reality of the sometimes complex process of identifying potential monitoring locations, securing funding, and installing an appropriate number of new sites, if an air agency is considering the monitoring approach for one or more areas, early coordination should improve the air agency's potential for success in meeting the timing and requirements of the rule.

The final rule retains the January 15, 2016, date for submittal of a list of sources, because the EPA expects that this information is relatively straightforward to obtain, and it is beneficial for planning purposes to have this list available as soon as possible. However, as mentioned previously, in light of comments, the EPA is promulgating a schedule that provides an additional six months for the air agency to specify how it plans to address the area around each listed source. The EPA is promulgating a schedule in which July 1, 2016, is the deadline for selecting among the monitoring approach, the modeling approach, or establishing source emission requirements. If the air agency selects the monitoring approach for a source area, it must also include in the annual monitoring plan (also due by July 1, 2016) information about any new monitoring sites it will establish by January 1, 2017. If the air agency selects the modeling approach for a source area, it must also submit a modeling protocol at that time. If the air agency chooses the option of establishing an enforceable source limit or limits as an alternative to air quality characterization, it must also at that time provide a description of the planned emission limitation, including such information as emission rate, averaging time, and expected legal mechanism for making the limitation federally enforceable. To suffice as an alternative to the characterization requirement, the emission requirements or limits would need to be adopted by the air agency, made federally enforceable, and require compliance by January 13, 2017. Further discussion of the rationale for these revisions to the timetable is provided in the relevant subsections that follow. Table 1 shows

at 9305. On April 15, 2014, the D.C. Circuit denied 26 consolidated petitions for review of the MATS rule brought by state, industry, and environmental petitioners in *White Stallion Energy Ctr. v. EPA*, No.

12–1100 (and consolidated cases) (D.C. Cir.). The Supreme Court has reversed and remanded the D.C. Circuit's decision for further proceedings. *Michigan v. EPA*, Nos. 14–46, 14–47, 14–49, 2015 WL

2473453 (June 29, 2015). However, the MATS rule remains in effect at this time.

the final rule timetable, including this revision.

TABLE 1—TIMELINE FOR DRR IMPLEMENTATION

Date	Action
From promulgation of this rule to January 15, 2016.	Air agency and the EPA Regional Office consult on list of SO <sub>2</sub> sources; air agency submits its list of sources to EPA by January 15, 2016.
July 1, 2016 .....	Air agency specifies for each source whether it will characterize air quality with modeling, characterize air quality with monitoring, or establish a federally enforceable requirement limiting annual emissions of the source to less than 2,000 tpy. For source areas to be modeled, the air agency submits a modeling protocol. For source areas to be monitored, the air agency submits information about any new monitoring sites it will establish by January 1, 2017. For areas where enforceable emission limits will be established as an alternative to air quality characterization, the air agency submits a description of the planned emission limit.
January 1, 2017 .....	Air agency ensures that SO <sub>2</sub> monitors to satisfy the Data Requirements Rule are installed and operational.
January 13, 2017 .....	For any source identified for modeling pursuant to the July 1, 2016, milestone, air agency submits modeling analyses. For any source identified for emission limit approach, air agency submits documentation showing that limits requiring annual emissions to be less than 2,000 tpy are effective and federally enforceable.
May 2020 .....	For any source area identified for monitoring approach, air agency certifies 2019 monitoring data, enabling official design values for the 2017–2019 time period to be calculated.

In addition, while the proposed rule discussed how the timing of the implementation of this rule would fit with the anticipated schedule for completing area designations, the proposed rule did not itself purport to establish a binding schedule for

completing designations. Table 2 provides information concerning the schedule for taking action to designate areas in the future in accordance with the March 2015 consent decree, but is intended for informational purposes only. In this rulemaking, we are not

addressing comments received on the proposed rule concerning the designation process because those issues would be beyond the intended scope of this rulemaking.

TABLE 2—ANTICIPATED SCHEDULE FOR FUTURE ROUNDS OF SO<sub>2</sub> DESIGNATIONS

July 2016 .....	Date by which the EPA must issue final designations for sources meeting specific criteria in the March 2015 consent decree.
August 2017 .....	Expected date by which the EPA would notify states of intended designations based on air quality data obtained pursuant to the first round of the data requirements rule.
December 2017 .....	Date by which the EPA must issue final designations for a majority of the country (pursuant to March 2015 consent decree), except for areas with new monitoring networks commencing operation by January 1, 2017.
August 2019 .....	Anticipated due date for state attainment plans for areas designated nonattainment in 2017.
May 2020 .....	Certification of 2019 monitoring data is required by this date.
August 2020 .....	Expected date by which the EPA would notify states of intended designations for the remainder of the country.
December 2020 .....	Date by which the EPA must issue final designations for the remainder of the country (pursuant to March 2015 consent decree).
August 2022 .....	Anticipated due date for state attainment plans for areas designated nonattainment in 2020.

## 2. Issues Related to Submittal of List of SO<sub>2</sub> Sources Where Air Quality Is To Be Characterized, and Election of Modeling or Monitoring

### a. Submittal of List of Sources Where Air Quality Is To Be Characterized

#### i. Summary of Proposal

In § 51.1203(a), the EPA proposed to require each air agency to submit to its respective EPA Regional Administrator by January 15, 2016, a list identifying the specific sources in the state around which SO<sub>2</sub> air quality is to be characterized. The EPA stated that this proposed requirement for the air agency to submit a list of source areas identified for further air quality characterization,

and the other data submittal requirements found in § 51.1203 of the proposed rule, are appropriate steps necessary to characterize SO<sub>2</sub> air quality throughout the country, and are consistent with sections 110(a)(2)(B), 110(a)(2)(K) and 301(a)(1) of the CAA. In the docket, the EPA provided a preliminary list of sources that appeared to meet the EPA's proposed thresholds (based on 2011 emissions data), and the EPA solicited comments on this list. *See* 79 FR 27446, 27461, May 13, 2014.

#### ii. Brief Summary of Comments

Some state and industry commenters opposed the requirement that, by January 15, 2016, air agencies must

submit a list of sources. Some commenters also stated that submitting a list of sources is unnecessary for various reasons such as data are already made publicly available on an annual basis through the national emissions inventory; that it does not make sense to establish a list that is expected to change; and that air agencies and the EPA can work cooperatively without a binding requirement. Commenters also recommended that any listing of sources, and any identification of the selected air quality characterization approach for specific source areas, should wait until the January 2017 analysis for individual sources or areas is to be completed. One state commenter

indicated that they did not find merit in the citations that the EPA provided in the proposal regarding the authority for requiring this list submittal. This commenter stated that the CAA section 110(a)(2) citations address the requirements for SIP submittals by states for implementation, maintenance and enforcement of the standard. Several state commenters also suggested updates or revisions to the EPA's preliminary list of sources potentially subject to this rule.

### iii. EPA Response

The EPA does not agree with commenters who claim that submittal of an initial list of sources near which air quality is to be characterized is not needed in January 2016. The EPA believes that it is important to receive the list of source areas to be characterized under the rule by January 15, 2016, because it will provide timely clarity for both EPA and the air agency about which sources and associated areas are to be characterized for air quality under this rule. In EPA's judgment, such timely clarity is essential to the success of the characterization efforts that follow the source identification step. The list will identify the sources in the state that exceed the 2,000 tpy emissions threshold based on the most recently available emissions data, as well as any other source or sources identified by the air agency or the EPA Regional Administrator as warranting air quality characterization. Development of this initial list will be important for air agencies as they prepare to generate timely air quality information that may be used to inform future designation, redesignation, or other decisions concerning attainment of the 2010 SO<sub>2</sub> NAAQS.

Retaining this deadline will provide the early opportunity for the air agency and the EPA to discuss and resolve questions about whether air quality characterization should be required for a particular area if, for example, emissions are low in some years and high in others, if an area has a cluster of smaller sources, or if source-specific or other factors may warrant the need for air quality characterization. As a further example, there may also be situations for which the state and the EPA need to reach agreement on what constitutes the most recent year of emissions data for specific EGU and non-EGU sources. The list requirement and deadline will ensure resolution of such questions in time to enable further characterization requirements to be met.

Thus, the EPA is retaining the January 2016 deadline, as proposed, for

submittal of the list of sources in order to initiate an orderly process to obtain additional information on ambient SO<sub>2</sub> concentrations, and ensure these data are available to support actions taken for the implementation of the 2010 SO<sub>2</sub> NAAQS. While the Agency has previously acknowledged that some of the deadlines in this rule do not provide as much time as some commenters would prefer, the EPA believes that the schedule for providing the list of sources is a relatively straightforward exercise that can be accomplished within the required time frame.

The EPA strongly encourages each air agency to consult with its respective EPA Regional Office to identify sources exceeding the emission threshold in the final rule, and to identify any other areas near sources that do not exceed the emission threshold but which would be appropriate for further air quality characterization. It will be important for air agencies and the EPA to carry out this consultation process as early as possible and to reach agreement on the list of sources to characterize under the rule as quickly and efficiently as possible. It is also important to note that, due to the overlap between the criteria for inclusion of sources in this final rule and those in the March 2015 consent decree, all of the sources identified in the March 2015 consent decree should also be included on the January 2016 list of sources required for characterization under this rule. The consent decree requires the designation in July 2016 of areas associated with an initial list of sources meeting specific criteria. Depending on the specifics of those designation actions, information developed to support those actions may serve to meet some or all of the requirements of this data requirements rule. (See section IV.E, Other Key Issues and Comments, for more discussion of these issues.)

Regarding comments about EPA's authority to require submittal of a source list, the EPA believes that the requirements of this rule for air agencies to submit a list of source areas identified for further air quality characterization, and the other data submittal requirements found in § 51.1203 of this rule are appropriate steps needed to better understand SO<sub>2</sub> air quality throughout the country, and that including such requirements is consistent with sections 110(a)(2)(B), 110(a)(2)(K), and 301(a)(1) of the CAA.

Section 110(a)(2)(B) of the CAA indicates that state SIPs are to "provide for establishment and operation of appropriate devices, methods, systems, and procedures necessary to (i) monitor, compile and analyze data on ambient air

quality and (ii) upon request, make such data available to the Administrator." Section 110(a)(2)(K) of the CAA states that SIPs shall "provide for (i) the performance of such air quality modeling as the Administrator may prescribe for the purpose of predicting the effect on ambient air quality of any emissions of any air pollutant for which the Administrator has established a NAAQS and (ii) the submission, upon request, of data related to such air quality modeling to the Administrator." Although both of these provisions direct what air agencies are required to include in SIPs, they clearly support the authority of the EPA to prescribe requirements that the information that SIPs are to ensure can be provided is collected in the first instance.

In addition, CAA section 301(a)(1) provides the EPA with general authority to establish regulations as necessary to carry out the agency's functions, which in this case includes ensuring that additional information is collected and provided so that air agencies and the EPA can ensure attainment and maintenance of the SO<sub>2</sub> NAAQS throughout each state. Finally, the EPA notes that CAA section 114(a)(1) also provides broad authority for the EPA, for the purposes of developing any implementation plan under section 110 or carrying out any provision of the CAA, to require monitoring and provision of other information the Agency may reasonably require (such as modeling information).

The EPA appreciates the comments on the preliminary list of sources that appeared likely to be subject to this rule as proposed. The EPA acknowledges that, for various reasons, such a list of sources could change up until the time that the list is required to be submitted. Accordingly, such a list is not being promulgated as part of this rule. The EPA plans on continuing consultations with air agencies regarding the source areas that the final rule will require to be characterized.

## b. Choice Monitoring or Modeling

### i. Summary of Proposal

In § 51.1203(b), the EPA proposed to require each air agency to state whether it will characterize air quality through improved ambient air quality monitoring or through air quality modeling techniques by January 15, 2016. The EPA also proposed in § 51.1203(b) that in an area with multiple subject sources, the air agency (or air agencies if a multi-state area) shall use the same technique (monitoring or modeling) to characterize air quality for all sources in the area. For



situations where multiple sources are located in proximity across state boundaries, the EPA recommended that the relevant air agencies work together to determine a common analytical approach for assessing air quality in that area. *See* 79 FR 27460, May 13, 2014.

#### ii. Brief Summary of Comments

Several state and industry commenters stated that the EPA should provide a more reasonable schedule for air agencies to elect the monitoring option under the proposed rule. Some commenters suggested that air agencies should have until January 1, 2017, to make this determination because they could benefit from using initial modeling results to inform this decision, such flexibility would reduce burdens on state regulators, and it could lead to more accurate determinations, while not impacting the EPA's expected attainment dates for such areas should the areas become designated nonattainment.

#### iii. EPA Response

In response to these comments, the EPA is providing additional time for making the election of modeling or monitoring (or, as discussed later, for making the election of an alternative approach that enforceably limits an applicable source's emissions). Accordingly, the deadline for this election will be July 1, 2016. The EPA recognizes that evaluating the relative merits of modeling and monitoring for any particular area, including identification of funding sources for any new monitoring that might be under consideration, warrants more time than was provided under the proposed rule. Consistent with this revision, the EPA is also revising the deadline for air agencies using modeling to submit modeling protocols for the applicable areas. Thus, under the final rule, by July 1, 2016, the air agency must submit its selection of whether each area will be characterized through modeling or monitoring and, depending on that selection, either must submit a modeling protocol or must include information in the Annual Monitoring Network Plan that specifies the monitoring to be conducted to address the requirements of this rule. The EPA believes that this revised deadline still provides for timely planning for air quality characterization to occur (through modeling) or begin (through monitoring) at the beginning of 2017. Conversely, the EPA does not agree that any later deadline for selecting the means of addressing air quality characterization requirements would provide the time and flexibility to

address in a timely way any issues that arise after the selection is made. The result would be that a later deadline for this selection could jeopardize timely receipt of information characterizing air quality.

Notwithstanding this revision, the Agency encourages air agencies to start their investigation of this issue as soon as practicable. The EPA strongly encourages each air agency to consult with its respective EPA Regional Office to identify sources exceeding the emission threshold in the final rule and any other sources that do not exceed the emission threshold but near which further air quality characterization would be warranted. Similarly, the EPA strongly encourages air agencies to hold early discussions regarding the manner in which modeling or monitoring might be used. As one example, if the air agency believes that the existing monitoring network suffices to characterize air quality, early discussions with the EPA would be essential for assuring that the intended selection of monitoring is based on appropriate assumptions regarding the network's ability to characterize air quality near the applicable source(s) without further network adjustments.

#### c. Use of Most Recent Publicly Available Data

##### i. Summary of Proposal

In § 51.1202, the EPA proposed that the air agency should identify applicable sources of SO<sub>2</sub> based on the most recent publicly available annual SO<sub>2</sub> emissions data for such sources. The EPA specified in proposed § 51.1200, that "annual SO<sub>2</sub> emissions data" means the quality-assured annual SO<sub>2</sub> emissions data for a stationary source as reported to the EPA in accordance with any existing regulatory requirement (such as requirements to report continuous emissions monitoring data for EGUs subject to the acid rain program). The EPA stated that, by January 15, 2016, data for 2014 would be available for EGU sources and 2013 data would be available for non-EGU sources. By considering the most recent emissions data, the EPA noted that air agencies and the EPA will be able to take into account any recent emissions increases or decreases that would cause a source to be subject to the requirements in this proposed rule. The EPA included in the docket to the proposed rule a preliminary list of sources that appeared to meet the criteria described in the EPA's proposed source threshold approach and requested that air agencies provide in their comments on this proposed rule

any relevant updated information that would support the addition or removal of a source from that preliminary list. *See*, 79 FR 27457, May 13, 2014.

#### ii. Brief Summary of Comments

Several state and industry commenters generally supported the approach that the basis for the emissions to be compared to the threshold would be the latest available 1-year of SO<sub>2</sub> emissions data. One industry commenter stated that using the most recent year of data ensures that any recent emissions reductions that have occurred will be properly taken into consideration.

One public interest group commenter stated that using the most recent year as a snapshot may fail to capture sources that simply have a low year, but normally emit at higher levels, and recommended that the EPA require that facilities only be excluded under the threshold if, in prior years, the facilities had similar low total emissions below the limit. A number of states provided information suggesting specific modifications to the EPA's preliminary list of sources.

One commenter stated that the rule should not take an "all in" or "all out" approach based on a simple analysis of 1 year's emissions or even a 3-year average of emissions alone. The commenter stated that the EPA seems to allow, or consider, the potential addition of non-threshold-meeting sources but does not appear to recognize that there may be instances where the air agencies knowledge and judgment warrants exclusion of threshold triggering sources. They suggested that air agencies should be able to take into consideration operational changes during the 3-year period to determine if a different methodology is appropriate for determining if a source should be a part of the analysis.

#### iii. EPA Response

The EPA continues to believe that the most appropriate generally applicable basis for determining applicability of the air quality characterization requirements is the most recent available year of emissions data for a stationary source as reported to the EPA in accordance with any existing regulatory requirement. As we have previously explained, SO<sub>2</sub> emissions are trending downward, due to numerous national and regional requirements that have recently been adopted and are taking effect. The Agency believes it is reasonable to account for this trend by basing applicability for this data requirements rule on the most recent available year of emissions.

By January 15, 2016, the EPA would expect that 2014 data will be available for all EGU sources, and 2015 data may be available for many EGUs in accordance with the requirements of the Acid Rain program and other emission trading programs that require data certification soon after the end of the year. These sources report hourly emissions data to the EPA on a quarterly basis. Emissions data for large SO<sub>2</sub> sources also would be available from annual reporting required for the AERR. Every 3 years (*i.e.*, 2011, 2014, 2017 and so on), air agencies must submit to EPA emissions data for SO<sub>2</sub> sources with the potential to emit more than 100 tpy. In other years, the AERR requires states to report emissions data for SO<sub>2</sub> sources with the potential to emit more than 2,500 tpy. These annual reports under the AERR are due 12 months after the end of the emissions year. Thus, the EPA would expect that in January 2016, states would have emissions data for calendar year 2014 available for non-EGU sources over 100 tpy potential to emit. Emissions reporting requirements for the Acid Rain and AERR programs would be expected to cover the vast majority, if not all, of the sources subject to the SO<sub>2</sub> DRR.

By considering the most recent emissions data, the air agency and the EPA will be able to take into account any recent emissions increases or decreases that would cause a source to be subject to the requirements in this rule or not. Although identifying sources based on the most recent year of emissions is a reasonable basis for prioritizing limited modeling and monitoring resources for characterizing current air quality, the EPA recognizes the concern of some commenters that there may be sources that in the most recent year have emissions that are lower than normal and are not representative of normal operations. In these cases, *i.e.*, where recent emissions are below 2,000 tpy but no controls have been installed and past representative emission levels are typically above 2,000 tpy, the state and the EPA should consider using their discretion to require additional air quality characterization near such sources.

The EPA also recognizes the concern about sources for which the most recent year's emissions are unrepresentatively high, *i.e.*, that some sources may have recent year emissions above 2,000 tpy but normally emit below that level. Given the trends in emissions, the EPA believes that situation will be relatively rare. Moreover, the existence of such sources does not negate the general conclusion that recent emissions data are an appropriate means for targeting

limited modeling and monitoring resources for characterizing current air quality.

The EPA believes that a rule that prioritizes resources based on the most recent year's data is more appropriate for a broader range of circumstances. The EPA notes, however, that after a source is initially identified, the air quality characterization requirements require air agencies to provide at least 3 years of monitoring or modeling data. The availability of such data will provide the opportunity to give appropriate consideration to representative emissions when using such data, as appropriate to the specific use.

#### d. Shutdowns and Limitations on Emissions Levels by January 13, 2017

##### i. Summary of Proposal

The EPA noted in the proposed rule that there may be sources in the power industry and other sectors that are in operation as of January 15, 2016, but may be scheduled to shut down (*e.g.*, due to a consent decree or other legal requirement), or may choose to shut down, prior to January 2017 (when the air agency should have ambient monitors operational and air quality modeling completed). The EPA proposed that any applicable source that intends to shut down but is still in operation on January 15, 2016, should be included on the air agency's list for SO<sub>2</sub> air quality characterization. However, if by January 13, 2017, the air agency can provide the EPA with a legal agreement confirming that the listed source has permanently and enforceably shut down, then under the proposal the air agency would have no further obligation regarding air quality characterization for this source pursuant to this rulemaking. *See* 79 FR 27458, May 13, 2014.

##### ii. Brief Summary of Comments

One state commenter recommended that the EPA revise the rule to exempt from the list those sources that take an enforceable emission limitation below the 2,000 tpy emissions threshold before January 13, 2017, even if reductions and applicability of the limitation are only realized within a reasonable time after January 13, 2017. Several commenters stated that there is no basis to distinguish between situations in which a source may provide documentation it will shut down, and cases where an enforceable limit is established, because in each case the source would no longer meet the criteria for characterization under the rule. Another commenter stated that sources should be able to

take federally enforceable limits on a tpy basis prior to the January 13, 2017, date for air agencies to submit their modeling analysis to avoid characterization under the rule. Another state commenter stated that requiring sources to implement controls prior to submittal of future required SIPs would encourage sources to make emission reductions while allowing sufficient time to implement these actions.

Some state and industry commenters recommended that sources should have until the applicable attainment date for a designated nonattainment area to complete any enforceable actions that achieve attainment, provided those actions are committed to by January 13, 2017. Commenters stated that there is insufficient time for sources to take all the actions needed to implement these controls (including conducting modeling, determining the required reductions and control strategies, procuring capital funds, obtaining permits and installing equipment) under the proposed rule. Commenters stated that allowing sources to implement controls after January 13, 2017, but before future attainment dates supports the EPA's desired outcome of achieving emission reductions as quickly as possible; in contrast, under the EPA's proposal, sources unable to have enforceable limits in place by the January 13, 2017, deadline have little incentive to take any action prior to the anticipated designation deadline of 2020.

##### iii. EPA Response

The EPA is finalizing the proposed approach to allow a state with a source that is in operation as of January 15, 2016, but that provides documentation that the source will shut down permanently prior to January 13, 2017 pursuant to a federally enforceable mechanism (*e.g.*, source-specific SIP revision or minor NSR permit revision submitted to the EPA by January 13, 2017), to avoid being subject to the requirement to characterize air quality in the vicinity of the source.

As a result of comments received on the proposed rule, the EPA is clarifying how this exclusion would work relative to the requirement for development and submittal in January 2016 of the list of sources near which air quality is to be characterized. The EPA appreciates that there might be a source whose most recent year of actual emissions exceeds the threshold for inclusion on the list, but for which the state has already adopted, or will soon adopt, enforceable requirements to shut down by January 2017. Such a source may have significant emissions during the most

recent available year, or may even still be in operation on January 15, 2016. The EPA has determined that the clearest way to implement the exclusion from the air quality characterization requirement is to require that the air agency initially identify such a source on its list for SO<sub>2</sub> air quality characterization because emissions in the previous year, which serve as the basis for listing under this rule, exceeded the emissions threshold. However, the final rule now includes language in § 51.1203(b) allowing the air agency to indicate by July 1, 2016, that it will provide the EPA with a federally enforceable requirement confirming that the source will be permanently and enforceably shut down by January 13, 2017. For a source for which the air agency provides documentation of a federally enforceable requirement that the source will shut down, the air agency will have no further obligation regarding air quality characterization pursuant to this rulemaking. This approach accomplishes the intent of the proposal by implementing the approach in a more clear and straightforward manner.

Commenters on the proposed rule also suggested that, in a similar manner, an air agency should not be subject to the air quality characterization obligation for any source that is initially on the list of sources due in January 15, 2016 (based on most recent actual emissions), but that becomes subject to a federally enforceable requirement to limit annual SO<sub>2</sub> emissions to below the 2,000 tpy emissions threshold. The EPA finds merit in those comments that suggest that the rule allow for similar treatment for sources that become subject to a federally enforceable emission limit as is allowed for sources that provide documentation that they will shut down. The EPA has revised the final rule accordingly, and provides further discussion below. However, EPA does not agree with commenters who suggest that sources should have until the applicable designation date, or attainment date for an area that is designated nonattainment, to implement controls that were committed to prior to January 13, 2017. Relying on commitments for emission reductions to occur after 2017 would not be consistent with the main focus of this rule, which is to provide current, updated information on priority SO<sub>2</sub> sources to the EPA beginning in early 2017 that will inform future area designations (now required in December 2017 and December 2020 per the March 2015 consent decree).

As indicated above, a source would be listed for air quality characterization if

its most recent emissions were above the 2,000 tpy threshold. However, the final rule also allows the air agency to meet the requirements of this rule by submitting a federally enforceable emissions limitation (e.g., source-specific SIP revision or minor NSR permit revision) to the EPA by January 13, 2017, that requires the affected source to reduce allowable emissions at the source to an annual rate below the 2,000 tpy threshold level by January 13, 2017. By July 1, 2016, the air agency would be required to identify the sources on the list for which it would be using such an approach as an alternative to modeling or monitoring. For such a source identified on the list, if the affected air agency has adopted and the source has become subject to federally enforceable control measures lowering emissions below 2,000 tpy by January 13, 2017, the air agency will generally not be required to further characterize the impacts from the source's emissions solely due to its size as of January 15, 2016.

Although air agencies may follow this option as an alternative to characterizing areas with sources that limit their emissions to below the 2,000 tpy size threshold, the EPA believes that air agencies and the EPA must apply judgment as to whether there are still reasons to characterize these areas due to other factors. As discussed above, some areas where all sources emit less than 2,000 tpy may nevertheless warrant air quality characterization, for example because the area has a cluster of sources with intermediate emission levels or because the characteristics of a source or the area warrant it. Thus, some areas with all sources limited to below 2,000 tpy may still warrant air quality characterization. Therefore, the EPA urges air agencies to consult early with the EPA regarding areas that are under consideration for being addressed in this manner, in order to develop a common understanding as to whether emission limits under consideration would suffice as an alternative to air quality characterization for the area.

The EPA believes that allowance for this alternative emission limit approach is not only consistent with the intent of this rule to prioritize resources to focus on the largest sources of SO<sub>2</sub>, but it also has the additional benefit of providing an incentive for early emission reductions to occur which will improve air quality in these areas in an expeditious manner. However, we do acknowledge the distinction between a formerly large source with no future emissions and a source with reduced but continuing emissions. The Agency does not believe it would be appropriate

to provide that the latter source can be excluded from evaluation in all cases. It may be that a source with emissions newly limited to below the applicability threshold—particularly one with limits established just below the threshold—may warrant further characterization, just as a source with actual emissions below the threshold may warrant characterization in some instances. For example, air quality characterization would continue to be warranted in areas with other sources over the applicability threshold, and in areas where no single source has emissions over the threshold but the combined emissions of multiple sources warrant air quality characterization. In evaluating such cases, the air agency should account for all source emissions contributing to ambient concentrations in the area, including those remaining emissions from the source that has just reduced its levels to below the applicability threshold. For this reason, the rule does not automatically exempt sources with emissions limited to less than 2,000 tpy from air quality characterization requirements; the rule instead provides that the air agency or the EPA may judge that the area should continue to be required to characterize air quality notwithstanding the new emission limits. Air agencies are thus advised to consult with their EPA Regional Office before pursuing this alternative to air quality characterization for a particular source area.

### 3. Issues Related to Submittal of Modeling Protocols

#### a. Summary of Proposal

For source areas that an air agency identifies are to be evaluated through air quality modeling, the EPA proposed in § 51.1203(d) that an air agency must also provide a modeling protocol to the EPA Regional Administrator for review by January 15, 2016. In the proposal, the EPA stated that the EPA Regional Offices would review the submitted information and consult with the air agency as expeditiously as practicable, either approving the submitted information in a similar manner to approval of annual monitoring plan updates, or having further discussion with the air agency if adjustments to modeling protocols are warranted. See 79 FR 27458, May 13, 2014.

#### b. Brief Summary of Comments

Several commenters stated that 1 year is not enough time to complete modeling demonstrations. These commenters stated that depending on the scope of the modeling required, it would take 2 to 4 years to complete the



entire process. The modeling time estimate will increase if refined modeling is required to site monitors and if the EPA expects the states to submit modeling protocols and not conduct any refined modeling to support monitor placement decisions until the EPA approves the protocols.

Several state and industry commenters objected to the EPA oversight of the modeling protocols. Commenters were concerned that the EPA could not review the plans in a timely manner and could cause delays in the process. One state commenter stated that, if this oversight and approval is finalized in this rule, they have serious concerns about whether 2 years from promulgation of the final rule is a reasonable amount of time for air agencies to prepare the necessary data inputs and conduct such modeling for all subject sources. One state commenter suggested that the EPA should clarify that air agencies could provide to the EPA a modeling protocol framework for review and approval, and that source-specific review of protocols should be left up to the respective state agency, consistent with past practices in PSD SIP approved states as well as past practices supporting Best Available Retrofit Technology (BART).

Some state and industry commenters recommended that the EPA oversight/approval of model protocols should be eliminated and air agencies should be able to determine the best approach, using the normal course of discussion and cooperation with their respective EPA Regional modeling contacts, and document that approach with the final submittal to the EPA. One industry commenter stated that it is arbitrary and capricious to require EPA approval of state monitoring and modeling plans when the EPA's technical resources are too stretched to provide this oversight in a timely manner.

#### c. EPA Response

The EPA recognizes the concerns of the commenters about the time and resources needed to develop effective modeling protocols. To clarify, the final rule does not require EPA approval of modeling protocols before air agencies may begin conducting modeling, but does direct air agencies to submit to the EPA modeling protocols by July 1, 2016. As with the modeling itself, directing submission of protocols is within the EPA's authority to prescribe modeling for the purpose of predicting the effect on ambient air quality of emissions under CAA section 110(a)(2)(K), and to prescribe such regulations as are necessary for the EPA to carry out its functions under CAA section 301(a)(1).

It is reasonable for the EPA to establish a process that provides an opportunity for preliminary EPA assistance to air agencies to ensure that their subsequent modeling is conducted in a manner that results in information that can reliably inform subsequent EPA actions determining air quality status under the SO<sub>2</sub> NAAQS. As explained below, the submission of modeling protocols will increase the likelihood that subsequent air agency modeling is sufficient for this purpose, and thus will clearly assist the EPA in carrying out its functions of determining air quality status.

As noted above, the EPA is allowing air agencies approximately six additional months to determine whether to characterize air quality through modeling or monitoring in order to accommodate the concerns about time needed to make this determination, without delaying the date by which information for characterizing air quality becomes available. Consistent with this revision, the EPA is delaying the deadline for states to submit modeling protocols for sources for which they choose to characterize air quality through modeling, to match the July 1, 2016, deadline for selecting an air quality characterization approach. The EPA believes that it is important and valuable for the EPA Regional Offices to work closely with air agencies to ensure that modeling protocols are adequate to ensure that the modeling for sources accurately characterizes air quality near sources. Requiring modeling protocols will help to keep air agencies from getting too far into the modeling process in a manner that may not be appropriate, which could occur absent such preliminary consultation with the EPA and, if it occurred, could result in the air agency needing to re-conduct modeling after submission to the EPA. The EPA does not intend to formally approve these protocols, nor does the EPA believe that a one-size-fits-all timeline, process, or presumption regarding approval or disapproval of these protocols is warranted. Nevertheless, the EPA believes that submittal of protocols will facilitate identification, and resolution of modeling issues, and will thereby help to avoid a later situation in which the EPA would not be able to rely upon the air agency's modeling in subsequent actions determining air quality status. Review of modeling protocols by the EPA will help ensure that the air agency's modeling will be appropriate for use in making future determinations regarding areas' attainment status, such as designations or redesignations. If an air agency's modeling protocol is not

submitted in advance of the subsequent modeling, the chances are greater that the EPA may not have critical air quality information when it is needed (for example, when the EPA intends to make area designations). Therefore, the EPA believes that a requirement for the air agency to provide modeling protocols for relevant sources to the EPA Regional Administrator by July 1, 2016 is a reasonable requirement. The modeling protocol should include information about issues such as emissions input data, modeling domain, receptor grid, meteorological data and how to account for background concentrations.

As was the case for the development of the list of sources and characterization approaches, the Agency acknowledges that the schedule for state submittal and the EPA review of modeling protocols is expeditious. The EPA nevertheless believes that the schedule can be achieved with appropriate planning, coordination, and program implementation by air agencies, and believes that it is necessary to establish expeditious timelines to ensure timely availability of the air quality information. The EPA Regional Office staff will be available to consult with air agency officials to refine the modeling protocols for relevant sources. The EPA Regional Offices will review the submitted information and consult with the air agency expeditiously to discuss any recommended adjustments to the protocol.

#### 4. Issues Related To Submittal of Annual Monitoring Network Plans That Include SO<sub>2</sub> Monitoring Network Modifications To Satisfy the DRR

##### a. Summary of Proposal

In areas where air quality will be characterized through ambient monitoring to satisfy this rulemaking, the EPA proposed monitoring requirements in § 51.1203(c), including the requirement that air agencies submit relevant information about these monitoring sites to the EPA Regional Administrator by July 1, 2016, as part of their annual monitoring network plan, in accordance with the EPA's monitoring requirements specified in 40 CFR part 58. In the proposal, the EPA encouraged air agencies to work with the EPA Regional Offices in the development of an appropriate network plan which would include the rationale for why the proposed number of sites and their individual locations are appropriate. The EPA stated in the proposal that optional considerations for siting these monitors are discussed

in the draft Monitoring TAD.<sup>7</sup> See 79 FR 27458, May 13, 2014.

#### b. Brief Summary of Comments

Several state and industry commenters asserted that it is unreasonable for the EPA to assume monitoring plans can be submitted by the proposed July 1, 2016, deadline. Some commenters stated that it may not be determined that monitoring would be appropriate in certain areas until after a lengthy round of initial modeling is complete. Other commenters stated that siting monitors is a lengthy process which involves, among other steps, working with the sources and the EPA to determine where monitors should be located, obtaining access to sites, identifying funding, and procuring and installing equipment. Furthermore, one commenter stated that, for sources that choose to operate monitoring equipment, additional time will be needed to (1) develop documentation between air agencies and sources to ensure that sites are adequately maintained and that data are reported in a timely and complete manner, and (2) to put in place a quality assurance program consistent with the EPA requirements for the entire monitoring network.

#### c. EPA Response

The EPA is finalizing the requirement that any plans to conduct monitoring to satisfy requirements of this rule (by air agencies, industry, or other parties) shall be reflected in the state's Annual Monitoring Network Plan due by July 1, 2016. The Agency believes that monitoring resources can be appropriately put in place by the January 1, 2017, deadline to satisfy this rule, particularly if air agencies begin planning as soon as possible. The EPA has encouraged air agencies to begin the monitor planning process early, particularly for the largest sources. As stated previously, the EPA believes that while the schedule for meeting the requirements of this rule is expeditious, the schedule can be achieved with the appropriate planning, coordination, and program implementation by affected air agencies. The EPA strongly encourages air agencies to start their investigation of this issue as soon as practicable. The EPA also encourages each air agency to consult with its respective EPA Regional Office to identify sources exceeding the emission threshold in the final rule and any other sources that do not exceed the

emission threshold but which would warrant the characterization of nearby air quality. In addition, as stated previously, the EPA believes that it is necessary to establish expeditious timelines to ensure timely availability of air quality information. With this in mind, and in light of the many logistical concerns raised by commenters and recognized by the EPA, the Agency is encouraging air agencies to engage with their respective EPA Regional Offices well in advance of the time by which the Annual Monitoring Network Plan is due. To this end, states should share their draft SO<sub>2</sub> network design plan for SO<sub>2</sub> monitoring intended to satisfy this rule with the EPA and the public in advance of the complete Annual Monitoring Network Plan.

The reality of the sometimes complex process of identifying a location, securing funding and installing a new monitoring site, necessitates such an approach. The Agency believes that early interaction between air agencies and the EPA Regional Offices and industry will likely improve the potential for success in installing an appropriate number of monitors in appropriate locations around SO<sub>2</sub> emitting facilities identified for characterization in this rulemaking.

#### 5. Issues Related to Deadline for Operation of SO<sub>2</sub> Monitors

##### a. Summary of Proposal

The EPA proposed in § 51.1203(c)(1) that air agencies that have chosen to characterize air quality through ambient monitoring must have any relocated and/or new monitors operational by January 1, 2017. In the preamble, the EPA explained that, under this approach, it is anticipated that the first 3 calendar years of data would be collected from 2017 through 2019, allowing the first design value for each monitor to be calculated by May 2020. This would allow these new monitoring data to be used to inform air agency and the EPA determinations of areas' attainment status in actions that occur in 2020, which could include designations and redesignations. See 79 FR 27458, May 13, 2014.

##### b. Brief Summary of Comments

One industry commenter stated that the proposed rule reflected a reasonable timeframe for air agencies to collect the data, either through monitoring or modeling, that are needed to characterize air quality in areas and determine whether the 1-hour SO<sub>2</sub> NAAQS is being met. One state commenter also asserted that the feasibility of this time period will be

dependent upon the threshold option selected by the EPA and, thus, the number of affected sources.

However, more than 10 state and industry commenters asserted that the short time period between the dates when the monitoring plans need to be submitted and the monitors are required to be operational is inadequate. One industry commenter stated that it is technically infeasible to implement the proposed rule by 2017 and, thus, the EPA's proposal is arbitrary and capricious.

Several state and industry commenters recommended an extension of at least 1 year for air agencies to begin actual monitoring. One state commenter suggested that the EPA should allow monitoring to begin operation between May 1, 2017, and July 1, 2017, which would be consistent with its suggested approach allowing air agencies to notify the EPA of selection of the monitoring option up to January 1, 2017. This commenter recognized that this approach would likely require delaying the attainment date, if designations are not made until after 3 calendar years of the new monitoring data are obtained and certified. This commenter also noted that, if the EPA's approval of an SO<sub>2</sub> monitoring plan under this proposal does not occur until late 2016, air agencies with winter weather concerns would simply not have sufficient time to set up a monitoring network by January 1, 2017. Another state commenter noted that other recent rules establishing new monitoring requirements (such as NAAQS revisions for NO<sub>2</sub>, SO<sub>2</sub> and PM<sub>2.5</sub>) have not required such rapid deployment of monitors, but have each allowed at least 1.5 years from submittal of the network plan to operation of the monitor.

##### c. EPA Response

The EPA recognizes that the logistical and financial burdens of installing an ambient air monitoring station can vary in difficulty and the resources required. However, as noted earlier with regard to the overarching timetables effected by this rule, the Agency believes that, as with other parts of the implementation schedule, while the schedule for operating monitors is expeditious, it can be achieved with appropriate planning, coordination, and program implementation by the air agency which will allow monitoring resources to be in place by the deadline. The EPA believes that any further delay in air quality characterization around sources identified as a result of this rulemaking will delay implementation of the standard and public health protection in areas where there may be a violation of

<sup>7</sup> The SO<sub>2</sub> NAAQS Designations Source-Oriented Monitoring Technical Assistance Document can be found at <http://www.epa.gov/airquality/sulfurdioxide/pdfs/SO2MonitoringTAD.pdf>.



the standard. The Agency believes that it is most prudent to maintain the proposed timetable for monitoring network installation because of the need for use of these new data in a relatively timely manner for use in making attainment status decisions concerning SO<sub>2</sub> areas in the country. Therefore, the EPA is finalizing the date by which monitors being used to satisfy this rulemaking must be operational to be January 1, 2017.

As noted previously, if a state chooses to monitor to satisfy the requirements of this rule, planning for the installation of new monitors must occur early on, soon after this rule is promulgated. With this in mind, and in light of the many logistical concerns raised by commenters and recognized by the EPA, the Agency is encouraging air agencies to engage with their respective EPA Regions well in advance of the time by which the Annual Monitoring Network Plan and network operations are due. The EPA is encouraging air agencies to engage with their respective EPA Regional Offices, and possibly the industrial sources needing nearby air quality characterization, to plan an adequate network design as early as possible after this rule is promulgated. The reality of the sometimes complex process of identifying a location, securing funding and installing a new monitoring site, necessitates such an approach. The Agency believes that early interaction between air agencies and the EPA Regional Office and industry will likely improve the potential for success in installing an appropriate number of monitors in appropriate locations around SO<sub>2</sub> emitting facilities identified in this rulemaking as needing nearby air quality to be characterized. The EPA also notes that if air agencies conclude that the timeline and resource burdens associated with installing and conducting improved monitors are not feasible for particular areas, they may instead choose the less resource-demanding and more expeditious method of modeling to characterize SO<sub>2</sub> emissions impacts in such areas.

## 6. Issues Related To Submittal of Modeling Analyses to the EPA

### a. Summary of Proposal

The EPA proposed in § 51.1203(d)(3) that air agencies that choose modeling to characterize ambient air quality be required to submit modeling analyses to the EPA Regional Office by January 13, 2017. In the proposal, the EPA recommended that these modeling analyses should be conducted in accordance with the recommendations

in the EPA's Modeling TAD<sup>8</sup> or as otherwise agreed upon with the EPA Regional Office on a case-by-case basis. The EPA stated that the EPA Regional Office and the air agency should engage actively in consultation to understand the inputs, assumptions and findings associated with each air quality modeling analysis; the air agency should submit thorough documentation of its modeling analysis; and the air agency should provide the EPA with supplemental information about the analysis upon request.

The proposal also indicated that where areas have not already been designated under the 2010 SO<sub>2</sub> NAAQS, air agencies could submit updated designation recommendations, if appropriate, as informed by their modeling analyses. The proposal noted that in developing any updated designation recommendations, the air agency should follow the EPA's most recent SO<sub>2</sub> designation guidance.<sup>9</sup> See 79 FR 27458, May 13, 2014.

### b. Brief Summary of Comments

One state commenter disagreed with the requirement that comprehensive modeling analyses and related supporting information need to be submitted to the EPA. This commenter asserted that the modeling analyses will be conducted by the facility owners and reviewed by the state air agency, and the air agency should be able to forward just a summary of the analyses to the EPA with sufficient information for the EPA to evaluate.

### c. EPA Response

The EPA is finalizing its proposed approach of requiring that air agencies choosing modeling to characterize ambient air quality be required to submit modeling analyses to the EPA Regional Office. Irrespective of whether the state or a third party conducts the modeling, it is the state's responsibility under the CAA to submit the information that this rule requires. The EPA anticipates that any state submittal of third-party modeling would reflect a review as to whether it believes that the modeling satisfies applicable

<sup>8</sup> The Draft SO<sub>2</sub> NAAQS Designations Modeling Technical Assistance Document can be found at <http://www.epa.gov/airquality/sulfurdioxide/pdfs/SO2ModelingTAD.pdf>.

<sup>9</sup> The EPA issued initial guidance on the SO<sub>2</sub> area designations process on March 24, 2011. See <http://www.epa.gov/air/sulfurdioxide/pdfs/20110411SO2designationsguidance.pdf>. Note: The EPA issued updated SO<sub>2</sub> designations guidance. See "Updated Guidance for Area Designations for the 2010 Primary Sulfur Dioxide National Ambient Air Quality Standard", March 20, 2015. Available at: <http://www.epa.gov/airquality/sulfurdioxide/pdfs/20150320SO2designations.pdf>.

requirements. Moreover, the EPA anticipates that the submittal would provide adequate information for the EPA to review the adequacy of the analysis as well.

### D. Technical Issues Relating to Modeling and Monitoring

#### 1. Technical Assistance Documents (TADs)

This section of the preamble presents a discussion of the threshold-based air quality characterization approach to implement the SO<sub>2</sub> NAAQS in areas that contain sources with larger SO<sub>2</sub> emissions, in order to address areas where there may be higher potential for NAAQS violations that adversely affect public health. This section discusses the different recommended approaches air agencies may use to provide the necessary air quality information to the EPA for areas around those identified sources.

#### a. Summary of Proposal

In the preamble of the proposed rulemaking, the EPA noted that the Agency has produced draft, non-binding Monitoring and Modeling TADs that discuss options, suggested approaches and methods on how monitoring or modeling efforts to characterize air quality around an identified source might be conducted. The EPA stated that these documents can be used to assist air agencies in the implementation of this rulemaking. See 79 FR 27460, May 13, 2014.

#### b. Brief Summary of Comments

One industry commenter stated that the proposed rule references and relies upon guidance provided in the Modeling and Monitoring TADs and in EPA's Guideline on Air Quality Models; therefore, the commenter asserted that the documents are subject to review and comment for the proposed rule. One state commenter asserted that it is challenging to prepare meaningful comments on the proposal since much of it is contingent upon the use of the TADs.

Some state and industry commenters urged the EPA to be clearer in the final preamble that the TADs are guidance and, therefore, are not binding. One state commenter urged the EPA to explicitly state in the final rule that air agencies retain the ability to use alternative methods to those outlined in the TADs. One industry commenter stated that the EPA's reliance on technical guidance documents that have not been subject to public notice and comment undermines protections guaranteed by the Administrative

Procedure Act. One state commenter stated that because the rule “requires” the use of “. . . separate non-binding draft technical assistance documents . . .” and creates significant regulatory uncertainty for air agencies, they oppose the proposal.

#### c. EPA Response

The EPA reiterates that the TADs provide recommendations but are not binding or enforceable and create no obligations on any person. Although the draft TADs are referenced as recommended approaches in the preamble to the proposal and in this final rulemaking, they are not required to be adhered to by any air agency required to characterize air quality around an SO<sub>2</sub> source identified in this rulemaking. The EPA developed the TADs to aid air agencies seeking advice in the air quality characterization process required by this rulemaking. The Agency has indicated that the TADs are meant to be used as possible tools to aid air agencies. This rulemaking does not codify the TADs, and none of the comments on the proposed rule regarding the TADs resulted in changes to the rule itself. The TADs are considered to be living documents that the EPA may update as necessary over time. The Agency believes that a modeling protocol or monitoring network design that follows or references the recommended approaches in the TADs is likely to be adequate, and will better ensure the success and a timely fulfillment of the requirements of this rulemaking. However, air agencies remain free under the final rule to suggest alternative approaches to those suggested in the TADs. Whether an agency chooses to follow a TAD or suggest an alternative approach does not affect the fact that for every approach chosen, the air agency will need to submit their rationale and approach to the EPA for review on a case-by-case basis.

The EPA disagrees with the commenters who claimed that the proposal’s reference to the TADs violates the rulemaking requirements of the Administrative Procedure Act. The Agency did not propose, and is not promulgating language that the TADs are required to be followed, and is not changing their status as non-binding technical assistance documents. In response to the request that the TADs be subjected to notice and comment, in fact the first drafts of the TADs were circulated for review and comment by stakeholders, and revised versions of the TADs were developed in response to those comments.

#### 2. Monitoring and Network Design Issues

##### a. Summary of Proposal

The EPA proposed that air agencies that select the monitoring approach to characterize air quality in an area would have the option to identify appropriate existing monitoring sites, relocate monitors as appropriate or install new monitors, and have them operational by January 1, 2017, in order to provide data for use in the anticipated designations process in calendar year 2020. The EPA proposed to require that any relocated or new monitors be operated either as SLAMS, or in a manner equivalent to those monitors operated elsewhere in the SLAMS network; they do not, however, have to be designated as SLAMS monitors. In the proposal, the EPA stated that the monitors should use Federal Reference Methods (FRMs) or FEMs and meet the requirements of 40 CFR part 58, appendices A, C, and E. Further, the EPA stated that the resulting data should be reported to the Air Quality System (AQS) and would be subject to the same annual data reporting and certification requirements listed in 40 CFR 58.15 and 58.16 as required for SLAMS data. *See* 79 FR 27461, May 13, 2014.

##### b. Brief Summary of Comments

Some commenters suggested that the rule should allow a third party, such as a facility owner, to cover the expenses of siting and operating new monitors in coordination with the air agency. One public interest group commenter stated that there are numerous considerations that make it unlikely that monitors could be sited at ideal modeled locations, including access to the location, power hookups, local pollutant effects and safety from vandalism. Several commenters expressed concern that the lack of clear criteria for designing an SO<sub>2</sub> source-oriented monitoring network puts air agencies in the unreasonable position of designing a monitoring network without knowing whether it will be approved by the EPA.

Some commenters stated that guidance is needed on the number of monitors required. Commenters stated this issue should not be left up to negotiations with the EPA Regional Office; rather, a procedure should be outlined that will provide consistency for all regional offices and air agencies. Some state and industry commenters suggested that one monitor may be sufficient and recommended the final rule include a discussion of the adequacy of one monitor in certain situations. One industry commenter stated that, because large gradients in

design concentrations for SO<sub>2</sub> are likely not present to the extent that the EPA may expect, the use of a single monitor to demonstrate NAAQS attainment is sufficient in many cases.

##### c. EPA Response

The EPA believes that there are no limitations as to who might operate a monitor or monitors being used to satisfy the requirements of this rulemaking. It can be a state, local or tribal government, industry, other third parties or a mix thereof. Whatever the case, the monitor or monitors should be included as a part of the state’s monitoring plan. The critical issue is that the monitor or monitors must be either a SLAMS monitor or SLAMS-like monitor, where the latter might be an industrial or other third party-operated monitor. In either case, the monitor or monitors must be an FRM or an FEM monitor, and must adhere to requirements in 40 CFR part 58, appendices A, C, and E, and adhere to data reporting requirements also contained in 40 CFR part 58. This does require states to provide oversight to any non-SLAMS sites for which they are claiming to satisfy this rulemaking, as the states have the final responsibility to ensure the quality of submitted data that satisfies the intent of this rulemaking.

With respect to concerns over a lack of clear criteria for designing an SO<sub>2</sub> source-oriented monitoring network, the likelihood to appropriately place one or more monitors, and the issue of what number of monitors might be required around a source, there is no one-size-fits-all answer to this question. The EPA indicated in the preamble to the proposal, and in the draft Monitoring TAD, that the relative location and number of monitors that might be sufficient to characterize the air quality around a source is a case-by-case determination. In general, the main objective is to monitor at, or as near as possible to, the location(s) where ambient SO<sub>2</sub> concentration maxima are expected to occur. Site selection for any monitoring network is subject to logistical hurdles including site access, identification or installation of appropriate infrastructure, telecommunications access, and safety, and state, local, and tribal air agencies are well versed in the variety of logistics that can be involved in the installation of an ambient air monitoring station. These issues undoubtedly can play into what any ambient air monitoring network ultimately looks like. However, as is the case with all required ambient air monitoring, responsible air agencies are expected to establish a clear rationale for the number and placement

of the monitors it is using to satisfy the requirements of the rule. In this process, there is flexibility for the state to use professional judgment in determining what is appropriate for their individual situations, but they are expected to perform due diligence in attempting to locate monitors in the most ideal locations possible. Further, the air agency's recommended number of monitors and preliminary rationale should be discussed with the EPA Regional Offices well in advance of the development of an Annual Monitoring Network Plan. As discussed in the Monitoring TAD, the development of a network design and its rationale can be informed by a number of types of analyses which can include the use of air quality modeling, exploratory monitoring, or analysis of existing data. In any scenario, the state would need to have a technically credible rationale that supports the monitoring network design approach that has been chosen to satisfy requirements in this rulemaking.

As stated previously, the TADs provide recommendations for air agencies, but are not binding or enforceable, and they create no obligations on any entity. Although the draft TADs are referenced as providing recommended approaches in the preamble to the proposal and in this final rulemaking, there is no specific provision in this rule that requires the air agency to adhere to the TADs. The TADs have been provided in order to potentially aid air agencies seeking advice in the air quality characterization process required by this rulemaking.

### 3. Areas Failing to Having New Monitors Operational by January 1, 2017

#### a. Summary of Proposal

Where an air agency has chosen the monitoring approach and submitted a list identifying the sources near which air quality is to be monitored, the proposed rule addressed the situation where it becomes evident that sufficient and appropriate monitoring will not be operational in a timely manner. The EPA proposed that the area around the source in question would be functionally "moved" to the modeling pathway, where air quality data characterized by the state under this rule could inform potential future designations that would be intended to occur by December 2017. The EPA requested comment on this approach, and on any alternative approaches that could most effectively address a situation where an air agency is acting in good faith to deploy monitors on time but experiences a delay which may be outside of its control, as well as a

situation where an air agency does not act in good faith to deploy monitors on time. *See* 79 FR 27461, May 13, 2014.

#### b. Brief Summary of Comments

One public interest group commenter stated that the 2017 modeling pathway discussed in the proposal offers a swifter, cheaper, and more accurate way of assessing air quality, and so did not believe that states that missed deadlines along the monitoring pathway should be allowed to further delay designations. Other commenters stated that the fact that modeling is less expensive than monitoring is not a substitute for what they believe is the superior accuracy of actual monitored data; and that they believe the lower costs of modeling do not offset the regulatory costs and other burdens on sources and communities that could result from nonattainment designations based on modeling.

One public interest group commenter stated that because the monitoring approach already could lead to designations occurring a full decade after the NAAQS was promulgated, it should be regarded as an absolute edge-of-the-envelope approach, meaning that failure to meet monitoring deadlines should result in areas being treated under the modeling pathway as a default. This commenter stated that setting such a policy in any final rule would properly incentivize actors to transmit information to the EPA in a timely manner.

A number of state and industry commenters did not agree that a would-be monitored area should be automatically designated at the same time as areas for which the modeling option was chosen in the event of any delay in monitoring. Commenters also stated that the proposed penalty for unanticipated monitoring site delays is excessive and there are too many uncertainties which argue against such automatic actions; especially in cases where the air agency has exercised all due diligence to ensure that the monitors are operational by the deadline in the rule.

#### c. EPA Response

The EPA is clarifying the relationship between this rule and the schedule for promulgating designations under CAA section 107. This rule does not establish any deadlines for designations or prescribe the manner in which future designations would occur. Therefore, it has never been the role of this rule, even as proposed, to promulgate schedules for designations of areas based on whether air agencies timely implement the rule. However, the proposed milestones for implementation of the

rule were devised in consideration of the Agency's preferred and anticipated schedule for completing area designations.

While this rule does not promulgate designation schedules, separate litigation activities have affected the schedule. On March 2, 2015, the U.S. District Court for the Northern District of California issued an order directing the EPA to complete designations pursuant to the schedule discussed earlier in this document. Affected air agencies considering the monitoring option under this rule should be aware of this schedule. Under the terms of the consent decree entered by the court, in order for the EPA to not be required to designate an area by December 31, 2017, air agencies choosing the monitoring option under this rule will need to install and begin operating those monitors by January 1, 2017. This is the date that the rule requires. However, while the rule does not provide designations schedules, and thus does not address how designation schedules would be affected by an air agency missing this deadline, the March 2015 consent decree does. If the monitor is not operational by January 1, 2017, the EPA will not be able to use the future monitoring information to be generated by those monitors in the initial designation for the area, because the court's order allows those designations to occur as late as 2020 only if the monitor is timely installed and operated. Where the January 1, 2017, deadline is not met, the designations must occur by December 31, 2017, and will have to depend upon other information available at that time.

The EPA's proposal addresses circumstances in which an air agency chooses to characterize through monitoring but fails to have monitors become operational on time. The proposal suggests that in these circumstances, the agency (or, for that matter, the EPA) would be required to conduct modeling under this rule and be relieved of further obligations to conduct monitoring, albeit late. The EPA's intent in its notice of proposed rulemaking was to explain that in these circumstances, where an air agency chooses to characterize air quality with new monitors but failed to have the new monitors operational by the January 1, 2017, deadline, the EPA envisioned designating such areas in conjunction with areas being characterized by modeling. That is, the EPA did not envision delaying the designation for such areas to the envisioned 2020 date when the Agency anticipates promulgating designations for areas characterizing air quality through a new



monitoring network. The EPA must now comply with a court-ordered designation schedule, in which the court expressly requires that areas that have not begun operation of a new monitoring network by January 1, 2017, must be designated by December 2017.

Nevertheless, the EPA wishes to clarify that an air agency that chooses monitoring as its means to meet the air quality characterization requirements, and commits in its July 2016 Annual Monitoring Network Plan to conduct such monitoring, remains obligated to fulfill the original requirement to monitor and to provide the resulting air quality characterization around a given SO<sub>2</sub> source, even if operation of new monitors commences after the January 1, 2017, deadline. If a state fails to meet the January 1, 2017, deadline, the state must still meet the monitoring requirements for the area pursuant to 40 CFR part 58, or the EPA may disapprove the state's monitoring plan for the following year, unless, of course, the monitoring plan is revised accordingly. Although, as discussed previously, the EPA will not be able to rely upon the future monitoring data to issue the designation on the court-ordered schedule, the future monitoring data may be useful for other purposes such as tracking progress and making later attainment status determinations needed for redesignations.

#### 4. Monitor Shut Down

##### a. Summary of Proposal

In the preamble, the EPA proposed that a monitor that has been deployed under the monitoring option pursuant to this rule, and is located in an area that is subsequently designated attainment, may be eligible for shut down provided that the monitor meets certain criteria. The EPA proposed in § 51.1203(c)(3) that any SO<sub>2</sub> monitor identified in an approved state annual monitoring network plan to satisfy the rule requirements may be eligible for shut down if the following criteria are met: (1) The monitor is not also satisfying other minimum SO<sub>2</sub> monitoring requirements listed in 40 CFR part 58, appendix D; (2) the monitor is not otherwise required to meet requirements in a SIP or permit; and (3) the monitor has recorded a 3-year design value (DV) that is no greater than 50 percent of the 1-hour SO<sub>2</sub> NAAQS. The EPA also proposed that any SO<sub>2</sub> monitor eligible for shutting down would need to be approved by the EPA Regional Administrator before monitoring operations could cease. As an alternative, the EPA also proposed an option in which the same criteria noted

earlier would need to be met, except that the monitor would be eligible to cease operations if it recorded a design value (DV) in the 3-year period that is no greater than 80 percent of the 1-hour SO<sub>2</sub> NAAQS. The EPA requested comment on the two proposed options for DV criteria for SO<sub>2</sub> monitor shutdown, as well as other potential values within the 50–80 percent range. The EPA requested that commenters provide specific technical rationale supporting any approach they recommend. See 79 FR 27462, May 13, 2014.

##### b. Brief Summary of Comments

Some state and industry commenters agreed with the proposal that monitors placed pursuant to the monitoring option and located in areas that are designated as attainment should be eligible for shut down. Commenters also stated that providing state agencies with the flexibility to shut down unneeded monitors allows agencies to allocate their limited resources more appropriately. One industry commenter stated that, if the sources are properly controlled and/or limited by permit, the risk of significant increases in DVs over time is relatively low absent new sources entering the affected area. Several state and industry commenters supported the proposal, with one state commenter indicating that the use of the 50 percent threshold would be safe to use because the area would require a significant increase in future SO<sub>2</sub> emission to cause an exceedance of the 1-hour SO<sub>2</sub> NAAQS.

Some state commenters recommended that the threshold of 50 percent be dropped in the final rule since 40 CFR 58.14 already contains provisions for shutting down a monitor at 80 percent of the NAAQS. Commenters stated that there does not seem to be a reason to make the criteria more stringent than the existing criteria in 40 CFR part 58 and, if the EPA wishes to change those criteria, a revision to 40 CFR 58.14(c)(1) should be considered and made available for comment. Industry commenters stated that the requirement for annual reporting of changes in SO<sub>2</sub> emissions with the possibility that further monitoring could be required, argues against the more stringent 50 percent option.

Over 25 commenters supported the use of the 80 percent threshold. Commenters stated that 80 percent of the NAAQS is a strong enough criterion for shut down of an SO<sub>2</sub> monitor and the 80 percent criterion is consistent with criteria for shutting down most regulatory monitors. One public interest group commenter stated that new

monitors should not be shut down since (1) short-term monitor readings may not be consistent with long-term attainment and (2) the SO<sub>2</sub> monitor network needs to be rebuilt. In addition, this commenter recommended that monitors not be removed if the concentrations they are recording are trending upward, indicative of potential future problems.

##### c. EPA Response

The EPA is finalizing the rule to allow any SO<sub>2</sub> monitor identified by an air agency in its approved Annual Monitoring Network Plan as having the purpose of satisfying § 51.1203 which is not in an SO<sub>2</sub> nonattainment area, and is not also being used to satisfy other ambient SO<sub>2</sub> minimum monitoring requirements listed in 40 CFR part 58, appendix D, section 4.4, and is not otherwise required as part of a SIP, permit, attainment plan or maintenance plan, to be eligible for shut down if it produces a DV of no greater than 50 percent of the 1-hour SO<sub>2</sub> NAAQS in the first or second 3-year periods of its operation. The EPA has chosen to adopt this shutdown allowance so that those monitors that record DVs that are well below the NAAQS after 3 or 4 years of operation would no longer be required to operate under the unique provisions of this rule, if they are otherwise not required under other requirements. This potential ability to shut down monitors would relieve any resource burden under this rule on air agencies where NAAQS violations have not and likely will not occur. This particular provision will not require estimates of future concentrations as do existing shutdown provisions in 40 CFR 58.14.

More specifically, this monitor shutdown provision works by assessing how two DVs (*i.e.*, one calculated from monitor data collected in years 1 through 3, and one from years 2 through 4) would compare to the 50 percent of the NAAQS shutdown criterion. If a monitor produces a DV from data collected in years 1 through 3 that is no greater than 50 percent of the NAAQS, it is eligible for shutdown if it is not otherwise required to operate. If the DV is above the 50 percent threshold, the monitor must continue operation. If that monitor produces a DV no greater than 50 percent of the NAAQS from data in years 2 through 4, it is eligible for shutdown if not otherwise required to operate. If, instead, the DV is again above the 50 percent threshold, the air agency must continue to operate the monitor. From that point forward (*i.e.*, for data collection year 2021 and beyond), the applicable monitor shutdown provisions are those that exist in 40 CFR 58.14, which include

probabilistic estimations of future concentrations and other circumstantial situations that might allow for monitor shutdown.

The Agency would like to note language of particular relevance from 40 CFR part 58 regarding eligibility for shutdown based on recorded data and calculated design values that exists in § 58.14(c)(1). This particular provision allows monitoring discontinuation with the Regional Administrator approval for: “Any PM<sub>2.5</sub>, O<sub>3</sub>, CO, PM<sub>10</sub>, SO<sub>2</sub>, Pb, or NO<sub>2</sub> SLAMS monitor which has shown attainment during the previous 5 years, that has a probability of less than 10 percent of exceeding 80 percent of the applicable NAAQS during the next 3 years based on the levels, trends, and variability observed in the past, and which is not specifically required by an attainment plan or maintenance plan. In a nonattainment or maintenance area, if the most recent attainment or maintenance plan adopted by the state, and approved by the EPA, contains a contingency measure to be triggered by an air quality concentration and the monitor to be discontinued is the only SLAMS monitor operating in the nonattainment or maintenance area, the monitor may not be discontinued.”

In any circumstance regarding monitor shutdown, whether pursuant to this final rule or 40 CFR part 58, the air agency must receive the EPA Regional Administrator approval of a request to cease operation of the monitor as part of its action on the annual monitoring plan under 40 CFR 58.10 prior to the shutdown of any qualifying monitor. Therefore, under the final rule, there are two sequential routes for possibly shutting down a monitor. If a monitor shows DVs greater than 50 percent of the NAAQS after the first two 3-year periods of its operation and cannot be approved for shut down under the first sequential route, the monitoring will continue. However, after 5 years of operation it can be considered for shutdown if it meets the criteria that the EPA's rules at 40 CFR 58.14(c)(1) apply, with the EPA Regional Administrator's approval. These monitors might also be subject to shut down eligibility as set forth in § 58.14(c)(2), (3), (5), and (6).

#### 5. Annual Reporting Following Monitor Shutdown

##### a. Summary of Proposal

For any area for which the EPA has approved an air agency's request for an SO<sub>2</sub> monitor to cease operations, the EPA proposed that the air agency be required to assess SO<sub>2</sub> emissions changes annually, beginning in the year after the monitor ceases operation. (The

proposal contained a similar requirement for modeled areas, discussed later in this section.) For areas around these sources in which total SO<sub>2</sub> emissions increase over the emissions for the previous year, the EPA proposed that the air agency would be required to submit to the EPA an assessment of the cause of the increase and provide an initial determination of whether the air quality around that source should be further re-assessed. The EPA proposed that the air agency could choose to reinstate the operation of the air monitor or complete air quality modeling for the source area to verify that the area continues to attain the standard. In the proposal, the EPA stated that, if modeling or monitoring information required to be submitted by the air agency to the EPA pursuant to § 51.1205 indicates that an area is not attaining the 2010 SO<sub>2</sub> NAAQS, the EPA may take appropriate action, including but not limited to disapproving the monitoring plan, requiring adoption of enforceable emission limits to ensure continued attainment of the 2010 SO<sub>2</sub> NAAQS, redesignation of the area to nonattainment, or issuance of a SIP Call.

The EPA proposed two options for how the air agency would submit this report and how the EPA would review and act on it. Under the first option, the EPA proposed that the air agency would submit a report to the EPA annually as an appendix to the air agency's annual monitoring plan; the annual monitoring plan is required to be submitted to the EPA Regional Administrator by July 1st each year. In the proposal, the EPA stated that the inclusion of this verification report as an appendix to the annual monitoring plan would ensure that the report would be subject to public review and comments that are to be provided for the monitoring plan pursuant to regulations at 40 CFR 58.10.

Under the second option, the annual report of emissions data for sources for which the state ceased the operation of nearby monitors would be submitted to the EPA in the form of a separate, independent annual submittal from the state to the EPA Regional Administrator due by the same July 1st date each year. This independent submittal would follow the general guidelines set forth in 40 CFR 58.10 regarding opportunities for public review and comment as described in Option 1, but the report would only include the annual assessments associated with sources in areas that were designated unclassifiable/attainment and for which the EPA granted approval to cease monitoring. The EPA invited comment on any suggested alternatives to these

procedural options. *See* 79 FR 27462, May 13, 2014.

##### b. Brief Summary of Comments

Several state and industry commenters stated that the proposed annual reporting requirement appears to be unduly burdensome. Some industry commenters opposed the annual reporting requirement, stating that SO<sub>2</sub> emissions from sources are already available to the EPA and the need for ongoing data requirements has not been demonstrated. One state commenter suggested that, if the monitors that were removed were providing data under 50 percent of the standard, there is no reason to perform such analyses since an increase in emissions that would result in such a drastic increase in monitored design values would surely be associated with changes to operations that would necessitate air permitting, which evaluates projects for NAAQS compliance.

One group of state commenters stated that the EPA's proposed July 1st submittal date is unrealistic because states will not have the required quality-assured emissions monitoring data processed by July 1st. Some state and industry commenters recommended a less burdensome process in which this verification would take place every 3 to 5 years instead of annually, pointing out that the EPA publishes the NEI data every 3 years, the EPA reviews the NAAQS every 5 years, and there is a 5-year ambient monitoring assessment plan required by 40 CFR 58.10.

Commenters requested clarification regarding the determination of an emissions increase. One state commenter stated that it is unclear whether an emission increase should be based on an increase greater than the 3 year average of emissions during the initial monitoring analysis, an increase above the highest single year of emissions during the initial monitoring analysis, or some other metric. Some commenters recommended the comparison be based on some compliant level of emissions from the year(s) where the monitor demonstrated attainment with the standard, since the “increase” or “decrease” in emissions of SO<sub>2</sub> may have resulted in total SO<sub>2</sub> emissions levels well below the annual emission rates during the years when monitoring data showed compliance.

One tribal and several state commenters supported the option of including the annual emissions analysis with the annual monitoring plan. One commenter stated that the analysis of emissions is closely related to network planning, and this procedure would provide a single document for public

inspection and EPA review and approval. Another commenter stated that the annual monitoring plan may not be the best tool or location to place modeled data, emission reports, ongoing data requirements, and requests to cease modeling. Other state commenters recommended that the monitoring plan verification report be considered a separate element for ease of processing and for public review.

#### c. EPA Response

The EPA has decided not to finalize the proposed requirement that any state with an area for which the EPA has approved the air agency's request for an SO<sub>2</sub> monitor to cease operations must still assess SO<sub>2</sub> emissions changes annually, beginning in the year after the monitor ceases operation. The EPA made this decision based upon comments on the proposed rule, and in recognition that a cessation of monitoring will not occur unless a monitor has measured SO<sub>2</sub> concentrations well below the NAAQS for a given time period and an EPA Regional Administrator has allowed the shut-down. The Agency is persuaded by commenters that monitor shutdown provisions, along with generally applicable emissions reporting requirements, are of sufficient strength that subsequent additional annual observation and reporting of SO<sub>2</sub> source emissions profiles by states specifically due to this rulemaking is unnecessary. Further, there are means by which monitoring can be reinitiated in the future if the unlikely scenario occurs where SO<sub>2</sub> emissions rise significantly in an area, or other data indicate possible NAAQS violations in an area after a monitor has been shut-down, mainly through the EPA Regional Administrator authority granted in 40 CFR part 58, appendix D, section 4.4.3.

#### 6. Modeling Issues

##### a. AERMOD

##### i. Summary of Proposal

In the proposal, the EPA stated that the Agency anticipates that in implementing the rule air agencies would likely use AERMOD to conduct modeling, as AERMOD is the EPA's preferred near-field dispersion model and has been demonstrated to be a reliable predictor of SO<sub>2</sub> air quality given appropriate input data. The EPA explained in the proposed rule that, as part of its development, AERMOD was evaluated using 17 field studies, several of which involved short-term measurements of SO<sub>2</sub>, robust site-specific meteorology and accurate measurements of emissions. The EPA

stated in the proposal that the Agency is confident that AERMOD can provide accurate predictions of actual SO<sub>2</sub> concentrations given representative meteorology and accurate emissions inputs. *See* 79 FR 27463, May 13, 2014.

##### ii. Brief Summary of Comments

One industry commenter stated that, for certain conventional SO<sub>2</sub> emission scenarios, such as tall stacks at coal fired EGUs, AERMOD can be at least reasonably predictive. One public interest group commenter stated that AERMOD modeling performs particularly well in evaluating emission sources with one or a handful of large emission points. This public interest group commenter cited a declaration of Roger W. Brode (EPA) filed in the EPA's successful defense of the 2010 SO<sub>2</sub> NAAQS in which he stated that AERMOD is capable of accurately predicting whether the revised primary SO<sub>2</sub> NAAQS is attained and whether individual sources cause or contribute to a violation of the SO<sub>2</sub> NAAQS. This commenter also stated that AERMOD has been tested and performs very well during conditions of low wind speeds, citing comments of Camille Sears.

A number of commenters expressed concern with the use of AERMOD. Some commenters stated that AERMOD was intentionally designed to over-predict SO<sub>2</sub> concentrations. Several commenters referenced studies that indicate AERMOD over-predicts, including studies by the Electric Power Research Institute (EPRI), AECOM and some air agencies. Commenters identified a number of issues that they believe need to be addressed because they lead to over-predicting SO<sub>2</sub> concentrations, including buoyant line sources, building downwash, conservative assumptions in terms of model input, modeling of multiple sources, periods of low wind speed, steep terrain and lack of representative meteorological data. Commenters stated that the individual aspects of AERMOD and the EPA's guidance that contribute to over-prediction of the SO<sub>2</sub> concentrations in the context of the 1-hour NAAQS are multiplicative.

##### iii. EPA Response

In this final rule, the EPA is not promulgating a requirement that air agencies use AERMOD in all cases, but is retaining the existing flexibility otherwise provided by the EPA's rules for agencies to support the use of the best model for a particular case. The EPA's latest recommendations for making this assessment are contained in the Modeling TAD. In most cases, the EPA believes that AERMOD will likely

be the model of choice by air agencies to address the requirements of this rule, unless the application involves a different recommended model, such as the Buoyant Line and Point Source Dispersion Model (BLP). Models recommended for particular applications are listed in appendix A of the EPA's Guideline on Air Quality Models.<sup>10</sup> Section 3.2 of the EPA's Guideline on Air Quality Models outlines the procedures for use of alternative models for those cases where an alternative model may be more appropriate than a preferred model. In addition, the Modeling TAD also discusses past use of alternative models for particular applications.<sup>11</sup> The EPA recommends consultation with the appropriate reviewing authority or EPA Regional Office to determine if the use of an alternative model is valid for that application.

In addition, as stated previously, the TADs are documents that provide recommendations but are not binding or enforceable and create no obligations on any person. Although the draft TADs are referenced as recommended approaches in the preamble to the proposal and in this rulemaking, they are not required to be adhered to by any state who is required to characterize air quality around an SO<sub>2</sub> source identified in this rulemaking. The TADs have been provided in order to potentially aid air agencies seeking advice in the air quality characterization process required by this rulemaking.

With regards to concerns regarding model conservatism, EPA recently proposed updates to AERMOD to address concerns regarding buoyant line sources, building downwash, and low wind speed issues. *See* 80 FR 45340 July 29, 2015. With regards to comments about model inputs that lead to over-estimates, as part of its development, AERMOD has been shown to perform well against observed concentrations when actual emissions have been used. The modeling of actual emissions for multiple sources is not anticipated to cause over-predictions. The modeling TAD also discusses that the number of sources explicitly modeled in an

<sup>10</sup> Revision to the Guideline on Air Quality Models: Enhancements to the AERMOD Dispersion Modeling System and Incorporation of Approaches to Address Ozone and Fine Particulate Matter" can be found at <http://www.epa.gov/ttn/scram/11thmodconf.htm>.

<sup>11</sup> It is the EPA's intention to update the Modeling and Monitoring TADs as necessary to reflect any change in policy or to make clarifications that are necessary. Therefore, any comments on the TADs themselves that have been submitted in response to the proposed rule will be addressed as a part of any updates made to the TADs in the future, rather than in this final rule.



application is expected to be low and that in many cases, a number of sources in a modeling domain can be represented by background concentrations instead of being explicitly modeled, thus reducing potential overestimates in modeling.

#### b. Emissions Data

##### i. Summary of Proposal

The EPA proposed that modeling analyses be based on either actual 1-hour SO<sub>2</sub> emissions from the most recent 3 years or federally enforceable allowable emissions. The EPA referred readers to the Modeling TAD for a more detailed discussion of a range of recommended options for determining actual emissions. While actual emissions would be the preferred choice to use for emissions inputs, air agencies have the option of using a more conservative approach by inputting a source's most recent 3 years of allowable, or "potential to emit," emissions. Additional information and recommendations on this approach are discussed in the Modeling TAD. *See* 79 FR 27446, 27464, May 13, 2014.

##### ii. Brief Summary of Comments

More than 30 state and industry commenters supported statements in the EPA's proposal that allow the use of actual emissions as an input in the air quality modeling in order to most effectively serve as a surrogate for comprehensive ambient monitoring results. Several commenters suggested that the use of allowable emissions as an input to air quality modeling analyses would result in modeled air quality values that were higher than air quality levels that would be expected to be observed by a properly sited ambient monitor. Commenters stated that using actual emissions is even more important when conducting a cumulative impact analysis (assessing potential impacts from two or more sources) since the model's tendency to overestimate ambient air impacts is compounded when numerous sources are all modeled at peak emissions at all times.

Several state and industry commenters supported the EPA's proposal to base the modeling analyses on actual emissions over a 3-year period. One commenter noted that, in situations where multiple sources are being modeled, the most recent 3 years of actual emissions data may not be the same for all sources, particularly if there is a mix of EGUs and non-EGUs. One state commenter suggested that, if justification can be provided for an alternative dataset, it too may be considered for modeling. One state

commenter recommended the rule clarify that states must use the most recent 3 years of emissions data that are available at the time that a modeling protocol for that area is submitted to the EPA, and that revised modeling should not be required if more recent emissions data become available.

##### iii. EPA Response

When using actual emissions, the EPA believes the most recent 3 years of time varying emissions (e.g., emissions that vary hourly, seasonally, monthly, daily, etc.) should be modeled since the air quality modeling is being used as a surrogate for monitoring. The Modeling TAD gives recommendations on inputting hourly emissions into AERMOD for those sources with hourly continuous emissions monitoring (CEM) data and also gives recommendations on inputting time varying emissions (e.g., seasonally, monthly, etc.) when no hourly emissions are available and only annual emissions and data such as production logs or fuel usage are available. However, the final rule does not restrict the ability of air agencies to use more conservative allowable emissions in conducting their modeling. In the event that a particular source does not have the most recent 3 years actual of emissions, it may be possible to use the most recently available emissions or develop the most recent 3 years of emissions using recommendations in the Modeling TAD. The reviewing authority should work with the appropriate EPA Regional Office on the use of such emissions. For an application that contains a mix of sources whose emissions data are not concurrent with each other, it is possible to model all of these sources together following recommendations in the Modeling TAD. Once a modeling protocol or modeling analyses have been submitted, there is no requirement to revise the protocol or modeling respectively if more recent emissions have become available since the submission, and in the best professional judgment of the reviewing authority, those emission changes do not warrant a revision to the protocol or modeling analyses.

#### c. Accounting for Recent Emission Reductions in Modeling Analyses

##### i. Summary of Proposal

In the proposal, the EPA noted that, in some cases, air quality modeling conducted in advance of January 2017 may indicate a violation of the 1-hour SO<sub>2</sub> standard and, to address such situations, the air agency may wish to consult with the source(s) and take

action to adopt enforceable emissions limitations as necessary prior to January 2017 to potentially avoid a nonattainment designation. The EPA proposed that, as long as these controls are implemented and enforceable as of January 2017, it would be appropriate for the new lower allowable emissions to be used in the modeling analysis in place of the higher actual emissions.

The EPA proposed that, if the air agency is able to demonstrate attainment with the new controls or emission limits, the governor of the state has the opportunity to modify its designation recommendation accordingly, if that designation has not yet been issued. *See* 79 FR 27464, May 13, 2014.

##### ii. Brief Summary of Comments

A number of commenters supported the inclusion of language providing the option for states to model more recent emission rates based on enforceable limits implemented in advance of the January 2017 modeling deadline. Commenters stated that this approach is a reasonable option which would provide industry with an incentive to achieve timely emission reductions to meet the regulatory requirements while potentially relieving air agencies from the requirements that a nonattainment designation entails, if such a designation has not yet been issued. One industry commenter requested that the method for reducing emissions not be limited to installing controls.

Some state commenters requested that the EPA develop methodologies for air agencies to work with sources whose 2015 emissions are above the threshold to establish permanent and enforceable emission limitations that show attainment with the SO<sub>2</sub> standards prior to a designation of such sources' areas. One state commenter stated that there must be a process that allows for the air agencies' discretion under extenuating circumstances in order to account for significant changes at a facility that occurred during the most recent 3 years.

##### iii. EPA Response

After review of the comments, the EPA continues to believe that it is appropriate for the air agency to consult with the affected source(s) and take action to adopt enforceable emissions limitations as necessary prior to January 2017. As long as the emissions limitations are in place and enforceable by January 2017, the new allowable emission limit may be input into the model instead of the actual emissions of the most recent 3 years.

The EPA expects that a number of emissions sources may be candidates for this optional approach. Many EGUs

were subject to compliance deadlines for the MATS in April 2015 (or in some cases are subject to April 2016 deadlines), and the EPA expects that many will become subject to title V permits that require compliance with MATS SO<sub>2</sub> emission limits as the means of demonstrating compliance with the MATS requirements related to acid gas emissions. These EGUs may be able to adopt control technologies and enforceable emission limits to reduce emissions of SO<sub>2</sub>, as well as mercury. Similarly, industrial boiler operators will have the incentive to adopt SO<sub>2</sub> emission limits as part of their strategy for complying with the Industrial Boiler Maximum Achievable Control Technology Standard. 78 FR 7162, January 31, 2013.

Therefore, the EPA believes that as long as these emissions reductions are implemented and enforceable by to January 2017, it would be appropriate for the new lower allowable emissions to be used in a modeling analysis in place of the higher actual emissions. The air quality impacts from such a source would be characterized by the new enforceable allowable limit and could be used as a basis for future determinations regarding areas' attainment status.

#### d. Stack Height

##### i. Summary of Proposal

The EPA described its view in the proposed rule that actual stack height is appropriate to use in conjunction with actual emissions in a modeling approach to characterize current air quality. The EPA also described its view that, if an air agency chooses to use allowable emissions, then it should use good engineering practice (GEP) stack height when the actual stack height exceeds the GEP height because the GEP height is used when calculating the allowable emission rates. The EPA noted that additional recommendations on the use of actual stack height can be found in the Modeling TAD. *See* 79 FR 27464, May 13, 2014.

##### ii. Brief Summary of Comments

A number of state and industry commenters supported the EPA's views on the use of actual stack height in conjunction with actual emissions. However, several state and industry commenters did not agree that GEP stack height should be used if a state chooses to use allowable emissions. Commenters stated the EPA should allow sources to model using actual stack height regardless of whether they are modeling actual emissions or allowable emissions since the purpose

of the rule is to estimate, as accurately as possible, conditions that would be measured at a monitor. Commenters also stated that GEP stack height is not always a factor in establishing the emissions limit, where such limits are not established under an implementation plan subject to the restrictions of CAA section 123; for example, in the context of emission limits that are established based on emission standards under CAA section 112, such as the MATS rule. One commenter stated that the concern about giving inappropriate credit for dispersion techniques is irrelevant in the context of this designation modeling as CAA section 123 applies only to emission limitation controls.

##### iii. EPA Response

After consideration of comments, the EPA continues to recommend the use of actual stack heights when using actual emissions and the use of GEP height when modeling with allowable emissions where such emissions limits are or would be subject to CAA section 123 and to the EPA's corresponding regulations implementing GEP requirements. This would include limits established under any CAA provision that are intended to be credited in an implementation plan for attaining and maintaining the NAAQS. The use of GEP for allowable emissions modeling in such situations is based on the fact that the modeling conducted to determine the emissions limits was or would be based on GEP stack heights. Therefore, if actual stack heights (when above GEP) were used in such situations, the behavior of the modeled sources would not be consistent with the modeling results used to determine the emissions limits relied upon to demonstrate attainment of the NAAQS.

#### e. Meteorological Data

##### i. Summary of Proposal

For purposes of conducting modeling that simulates what might be expected to be measured by an ambient monitor, the EPA recommended the use of 3 years of meteorological data. The EPA stated that, ideally, air agencies would use the most recent 3 years of meteorological data and the same 3 years of actual emissions data when modeling for designations. The EPA noted that the Modeling TAD has additional suggestions on these meteorological inputs. *See* 79 FR 27465, May 13, 2014.

##### ii. Brief Summary of Comments

Some commenters recommended the use of 1 year of meteorological data rather than 3 years and provided several

reasons: Use of 1 year of on-site meteorological data would yield a very robust data set; 3 years does not provide a significant benefit over 1 year; 1 year of meteorological data is sufficient for PSD purposes; collection of 3 years of data would delay the running of AERMOD; and collection of 3 years of data would be unnecessarily expensive. Commenters stated that, while relatively few meteorological databases with 3 years of on-site meteorological data exist, many sources may have previously collected a full year of data and should be able to use that data without starting all over again on an expensive 3-year effort. One state commenter asked the EPA to clarify what is meant by "the most recent 3 years."

One state commenter recommended that up to 5 years of meteorological data be used and stated that, while a single 3-year period may not provide adequate confidence in the analysis, 5 years will provide more 3-year combinations that can be compared to the NAAQS, and more meteorological data improves confidence in the result. Some commenters requested that the EPA clarify:

- That air agencies need not use concurrent meteorological data, given that some sites simply do not have concurrent meteorological data.
- Given the lack of 3 years of on-site data in many areas, the EPA should approve the use of prognostic meteorological data.

##### iii. EPA Response

The EPA's recommendation is to use the most recent 3 years of representative site-specific data or when site-specific data are not readily available, or it is not feasible or cost-effective to collect site-specific data, the most recent 3 years of representative National Weather Service meteorological data or other representative data. When the most recent 3 years of representative meteorological data are not available, the use of older representative meteorological data can be used. For such cases, the Modeling TAD offers recommendations on synching the older meteorological data with the more recent emissions, especially for those sources utilizing hourly emissions. The Modeling TAD provides an explanation of the need for 3 years of meteorological data, even if only 1 year of on-site meteorological data are available. With regards to the type of meteorological data that are available, *i.e.* site-specific, NWS data, or prognostic data, the EPA's Modeling Guideline should be consulted on the latest acceptable forms



of meteorological data at the time of the modeling analyses.

f. Modeling Protocol, Including Multiple Sources

i. Summary of Proposal

This rulemaking proposed that each state list the sources that are to be addressed under this rule and the approach to be used to meet this rule's requirements (air quality characterization through monitoring, air quality characterization through modeling, or establishment of a requirement for a timely source shutdown) for each source. In preparation for conducting modeling, the EPA proposed that the state would need to develop a modeling protocol for all the sources the state plans to model. Specifically, in § 51.1203(d), the EPA proposed that the air agency consult with the appropriate EPA Regional Office in developing modeling protocols and submit the protocol to the Regional Administrator for review. In § 51.1203(d)(1), the EPA proposed that the modeling protocol shall include information about the modeling approach to be followed, including but not limited to the model to be used, modeling domain, receptor grid, emissions dataset, meteorological dataset and how the state will account for background SO<sub>2</sub> concentrations. The EPA stated that details on the suggested protocol elements and the recommended standard format of this protocol can be found in the Modeling TAD. *See* 79 FR 27465, May 13, 2014.

ii. Brief Summary of Comments

Some state and industry commenters requested that the EPA provide more specific guidance on conducting multi-source modeling analyses. Commenters stated that leaving these topics for negotiation with the EPA Regional Office will lead to inconsistent application of guidance among states. Commenters requested guidance on when a source should be modeled by itself, when a source should be modeled with other sources in the surrounding area, more detail on the size and location of sources that should be included in a multi-source analyses, and who would be responsible for conducting analyses when sources are located in multi-state areas. One state commenter requested that guidance on modeling facilities across state lines should be addressed.

iii. EPA Response

The determination of whether to include nearby sources in a modeling exercise around a source that exceeds the emissions threshold is case specific,

and a standardized methodology cannot be developed to fit all scenarios.

Therefore, the final rule does not promulgate requirements addressing nearby sources. The EPA has offered technical recommendations in the Modeling TAD. The identification of nearby sources for modeling should rely on sound technical reasoning and best professional judgment. The EPA emphasizes that not all emissions sources near the source of interest need to be explicitly modeled, as in some cases the impacts of those sources can be sufficiently represented by a background monitor as discussed in the Modeling TAD and section 8.2 of the EPA's Modeling Guideline.

As stated previously, the TADs provide recommendations but are not binding or enforceable and create no obligations on any person. Although the draft TADs are referenced as recommended approaches in the preamble to the proposal and in this rulemaking, they are not required to be adhered to by any air agency who is required to characterize air quality around an SO<sub>2</sub> source identified in this rulemaking. The TADs have been provided in order to potentially aid air agencies seeking advice in the air quality characterization process required by this rulemaking. The Agency has indicated that the TADs are meant to be used as possible tools to aid air agencies. The EPA is not codifying changes to the TADs in this rulemaking in response to any comments received on the proposed rule. The TADs are living documents which the EPA may update as necessary.

g. Ongoing Air Agency Data Requirements for Areas That Were Initially Modeled

i. Summary of Proposal

The EPA proposed that, for areas with modeled air quality data based on actual emissions that did not exceed the standard, air agencies would be required to continue to submit information to the EPA in subsequent years that provide a reasonable assurance that the area continues to have air quality that does not exceed the standard. The EPA proposed three options for how air agencies that rely on modeling of actual emissions would need to conduct additional emissions and/or modeling analyses. In the proposed rule, the EPA believed that such additional analyses would only be needed for areas that had been designated as "unclassifiable/attainment" based on actual emissions-based modeling. The EPA further noted in the proposed rule that modeled source areas would not be subject to

these ongoing data requirements if (1) modeling for the source was conducted using allowable emissions, or (2) the modeling for the source was conducted using actual emissions and the relevant sources then adopted enforceable emission limits consistent with the actual emissions rates used in the modeling.

In Option 1, the EPA proposed that any air agency that will be subject to an ongoing data requirement for modeled areas would be required to assess the most recent SO<sub>2</sub> emissions data annually, beginning in the year after the area is designated as unclassifiable/attainment, and to conduct updated air quality modeling every 3 years, and in additional years when the air agency or the EPA determines that such modeling is warranted. Air agencies would be able to request that the EPA Regional Administrator approve a suspension of the triennial modeling requirement for an area if their most recent modeling DV was less than 50 percent of the NAAQS.

In Option 2, the EPA proposed to require the air agency to provide the EPA with an assessment of SO<sub>2</sub> emissions changes for each source annually, as in Option 1, but to not have a requirement to conduct updated air quality modeling every 3 years. For sources for which the air agency determines that emissions have increased, the air agency would be required to submit to the EPA an assessment of the cause of the increase, and provide the EPA with an initial determination of whether air quality modeling would be needed to verify that the area around the source continues to have air quality levels that do not exceed the standard. If the air agency or the EPA determines that additional air quality modeling is necessary, the air agency would be required to submit the results of that assessment in a timely fashion—within 12 months.

In Option 3, the EPA proposed to require the state to perform periodic screening modeling every 3 years for all source areas that had been previously modeled and determined to be attaining the standard, and submit such modeling for review to the EPA. Screening modeling is commonly performed using a set of default parameters rather than area-specific parameters, and it generally simulates air quality levels that are more "conservative" than levels that would be estimated using area-specific parameters. In the proposal, the EPA stated that a complete, full-scale modeling analysis with updated emissions and meteorological inputs would only be required if the state performs screening modeling that indicates a potential violation. Under all

three options, if the modeling performed indicates that air quality levels in an area exceed the SO<sub>2</sub> NAAQS, the EPA may take any appropriate action, including, but not limited to, requiring adoption of enforceable emission limits to ensure that future air quality levels in the area do not exceed the SO<sub>2</sub> NAAQS; redesignation of the area to nonattainment; or issuance of a SIP call requiring action by the state to bring the area into attainment.

The EPA requested comment on these three options for ongoing data requirements for air agencies with sources modeled based on actual emissions, and requested that each commenter provide a clear rationale for their position. The EPA also invited comments on any alternative ideas and asked that the commenter provide a detailed rationale and estimate of any associated costs for any such recommendations. *See* 79 FR 27465, May 13, 2014.

#### ii. Brief Summary of Comments

Several state, environmental, and tribal commenters supported Option 1. These commenters stated that an approach that simply assesses SO<sub>2</sub> emissions changes at large sources would not account for variations in meteorological conditions, increased SO<sub>2</sub> emissions from interactive sources, or improvements to the actual modeling computer program. One commenter stated that annual modeling makes far more sense from the perspective of protecting the public health, and suggested that modeling once every 3 years is an extremely periodic and slow way of assessing air quality, such that people living in the impacted area could be unaware for years, and thus unable to take action to protect themselves or place pressure on their government to correct the problem.

Several state and industry commenters opposed Option 1 and stated that modeling assessments should not be conducted on a 3-year or any other regular basis. Some believed the requirement to model every 3 years would be an inefficient use of resources and arbitrary since it would not take into account information which might show that undergoing a revised modeling analysis would be unnecessary. They claimed that as long as conditions have remained the same or possibly improved in the intervening timeframe, additional modeling will provide no additional useful information. Others opposed Option 1 on the grounds that no other ambient standard requires such a detailed ongoing analysis. Consistent with their concerns about resources, commenters

supported the aspect of Option 1 that would enable the air agency to terminate certain ongoing data requirements if air quality modeling indicated a DV equal to or less than 50 percent of the 1-hour SO<sub>2</sub> NAAQS.

A number of state and tribal commenters objected to Option 2. One tribal commenter stated that the proposed emissions assessments required in Option 2, which lack a regular air quality modeling requirement, are not stringent enough. Some state commenters expressed concern that this option could lead to an indeterminate number of future analyses required, and that such open-ended requirements have cost implications that could strain states' already-limited resources. On the other hand, more than 20 state and industry commenters supported Option 2 because it balances providing air quality protection with level of effort from state regulatory authorities. Several commenters noted that with SO<sub>2</sub> emissions declining on a national level, remodeling would not be expected to be required and a simple analysis of the change in emissions would be sufficient to determine the need for additional modeling. A state commenter suggested providing clearer guidance regarding what level of emissions increase would trigger further evaluation of sources, rather than having the air agency provide an assessment for each source with increased emissions. The commenter suggested (1) if the original modeling level was equal to or greater than 90 percent of the standard, then new modeling would be required for the area in the event there is any increase in emissions in the area; (2) if the original modeling level was between 50 percent and 75 percent of the standard, then new modeling would be required for the area if area emissions increased by 15 percent or more; and (3) if the original modeling level was less than 50 percent of the standard, then the ongoing modeling requirement should not apply (similar to the provision in Option 1).

Another state commenter stated that, ideally, under Option 2, agencies would have a 2.5-year timeframe to complete the entire ongoing data requirement process: The first year would consist of preparing and submitting data for the national emissions inventory for the previous year; 6 months thereafter agencies would submit a report to the EPA stating whether air quality modeling is needed; and 12 more months would then be permitted to perform any additional modeling deemed necessary.

Regarding Option 3, several state and industry commenters disagreed with

having any default modeling requirement, even for screening modeling, and opposed this option. Several commenters objected to the required use of a screening model for the following reasons: Most of the facilities will have multiple emission points and the screening tools were not designed to evaluate such complex situations; the mandatory use of screening models will result in an overly cautious, ineffective approach to verification; and screening modeling is almost as complex and time consuming as full-scale modeling and thus this option would not be a good use of state and the EPA resources.

Lastly, some commenters suggested that the air agency should be able to choose which ongoing data requirement approach it intends to follow for a particular area. Another commenter suggested an approach that would be a combination of all three options, where the air agency would evaluate emissions changes each year, and then conduct screening modeling or full-scale modeling if the magnitude of emission changes warrant.

#### iii. EPA Response

The EPA recognizes the concerns of commenters about the resource considerations associated with Options 1 and 3, which for areas with modeling based on actual emissions and designated as attaining would require full-scale modeling or screening modeling every 3 years, even if annual emissions in the area were not increasing. We disagree with those commenters who oppose any requirement for ongoing data assessment at all; and with those commenters who suggest a requirement for annual modeling for all areas. The EPA believes that a reasonable requirement for ongoing evaluation of priority areas identified by this rule is important to meeting the public health objectives of this NAAQS while balancing resource constraints of air agencies in a manageable way. The EPA agrees with commenters that suggest it would be reasonable to check emissions changes first, and based on that information, then make a determination about whether to conduct additional modeling. The EPA is also mindful of the fact that in this rule, modeling is effectively serving as a surrogate for monitoring, and so the EPA believes it is reasonable to have similar approaches for terminating the ongoing data requirements for both areas where air quality was initially characterized by monitoring, and areas where air quality was initially characterized by modeling.

After considering the comments received on the proposed rule, the EPA is finalizing a combination of elements from Option 1 and Option 2. As outlined in proposed Option 2, the final approach requires the air agency to conduct an assessment of emissions changes annually for all source areas for which the initial air quality modeling was based on actual emissions and the area was designated as attaining the standard. The air agency must provide this assessment to the EPA in the form of a report, to be submitted by July 1 of the following year. This assessment should reflect the most recent quality-assured emissions data available for the relevant sources in the area. The report must also describe the reason for emissions increases in the previous year at any listed sources, and must include a recommendation indicating for which sources and areas the emissions increase was substantial enough to warrant updated air quality modeling that would help determine air quality levels relative to the standard.

Adapting suggested criteria from a state commenter (with some modification), the EPA recommends as a general guideline that the air agency should conduct additional modeling (using the most recent actual emissions as inputs) for an area if (1) the original modeling level was equal to or greater than 90 percent of the standard, and there is any increase in emissions in the area; or (2) if the original modeling level was between 50 percent and 90 percent of the standard, and emissions in the area increased by 15 percent or more. However, the EPA is not promulgating specific criteria for when additional modeling is required because the EPA believes that the need for additional modeling is best judged on a case-by-case basis reflecting case-specific information on emissions changes and prior modeling results. For example, if the emissions increase was substantial and the previous modeling had indicated that air quality in the area was just under the standard, then air quality modeling would be warranted. In other cases where air quality has been modeled to be well below the standard and annual emissions increase only slightly in the following year, the air agency would be able to exercise judgment regarding whether additional modeling would be needed. The use of case-specific judgment will be especially important in cases involving multiple sources or multiple emission units that may have different emissions-air quality relationships.

The modeling analysis for the area would then be due within 12 months of the air agency recommendation that

such modeling is warranted (*i.e.* by July 1 of the following year). In this way, if new modeling is recommended, the whole process ideally would take 18 months from the end of the “ongoing data requirement” year to when new modeling would be due (not 30 months as suggested by a state commenter).

The EPA finds that the relatively straightforward approach described in proposed Option 2 requiring the examination of emissions data annually (rather than conducting updated air quality modeling every 3 years for every area) is consistent with the frequency with which ambient monitoring data is evaluated. This approach also provides some flexibility to the air agency in recommending whether the magnitude of emissions changes in an area would be large enough to warrant new modeling. As compared to Options 1 and 3, this approach also would be expected to involve less overall workload for air agencies over time.

In addition, as provided in Option 1, the final rule also includes a provision in § 51.1205(b) enabling the air agency to terminate the ongoing data requirement for a modeled area if it meets certain criteria. The provision is analogous to § 51.1205(a), which allows for the air agency to obtain EPA approval to cease operation of a new ambient monitor if the most recent DV is low enough to meet certain criteria (*e.g.* less than or equal to 50 percent of the level of the NAAQS, or meeting the criteria of 40 CFR 58.14). Thus, for areas that were originally modeled based on actual emissions, § 51.1205(b) of the rule allows termination of the air agency’s annual emission reporting requirement if the air agency submits an air quality modeling analysis, using updated actual emissions data from the most recent 3 years, that demonstrates that air quality DVs at all receptors in the analysis are less than or equal to 50 percent of the 1-hour SO<sub>2</sub> NAAQS, and such demonstration is approved by the EPA Regional Administrator. Likewise, if the initial modeling of a source area demonstrates that air quality DVs at all receptors in the analysis are less than or equal to 50 percent of the 1-hour SO<sub>2</sub> NAAQS, and such demonstration is approved by the EPA Regional Administrator, the area would not be subject to ongoing data requirements as well. The EPA believes that including this type of provision in the final rule structures the rule in a balanced way for both modeled and monitored areas in order to meet the objectives of ensuring that such areas continue to meet the standard and continue to protect public health, while recognizing the resource constraints of air agencies.

h. Procedural Approach for Post-Attainment Annual Reporting

i. Summary of Proposal

The EPA proposed two options regarding the procedures by which air agencies would submit ongoing data reports to the EPA for source areas characterized through modeling, and by which the EPA would review and act on them. Under Option 1, the EPA proposed that the air agency would submit a report to the EPA annually as an appendix to its annual monitoring plan. The annual monitoring plan is required to be submitted to the EPA Regional Administrator by July 1 each year. The inclusion of this report as an appendix to the annual monitoring plan would ensure that the report would be subject to the same opportunities for public review and comment that are to be provided for the monitoring plan pursuant to regulations at 40 CFR 58.10. Those regulations specify that if the air agency modifies the monitoring plan from the previous year, then prior to taking final action to approve or disapprove the plan, the EPA would be required to provide an opportunity for public review and comment on the modified plan. The regulations also indicate that if the air agency has already provided a public comment opportunity in developing its revised monitoring plan and has made no further changes to the plan after reviewing the public comments that were received, then it could submit the public comments along with the revised plan to the EPA, and the EPA Regional Administrator would not need to provide a separate opportunity for comment before approving or disapproving the plan.

Under Option 2, the ongoing report would not be submitted to the EPA as an appendix to the annual monitoring network plan, but it would take the form of a separate, independent submittal from the state to the EPA Regional Administrator. The EPA proposed that this report would be due by the same July 1st date each year and that this independent submittal would follow the general guidelines set forth in 40 CFR 58.10 regarding opportunities for public review as described in Option 1, but the report would only include the annual assessments associated with sources in areas that were designated unclassifiable/attainment based on modeling of actual emissions.

In the proposed rule, the EPA requested comment on the two procedural options as well as any alternative ideas suggested by commenters. For any such recommendations, the EPA requested



that the commenter provide a detailed rationale and estimate of any associated costs. See 79 FR 27467, May 13, 2014.

#### ii. Brief Summary of Comments

Some state, tribal and industry commenters recommended that this information be included as an appendix to the annual monitoring plan, rather than as a stand-alone document. One commenter stated that, since both options have a deadline of July 1st each year, a separate document would only add more time and resource use. Several state commenters recommended that the assessment be submitted separately from the annual monitoring plan. These commenters provided the following rationale: Since these documents are not related, they should be kept separate; since the annual report refers to modeling, it will cause less confusion for the general public if it is a separate document from the annual monitoring plan; and because the annual monitoring plan and the emissions inventory submittals are performed by separate work units on different timelines, it would be better to deliver the products separately rather than delay one or the other to deliver them together.

#### iii. EPA Response

After considering the comments received related to both of the proposed options, the EPA believes that the best approach for the final rule is to allow the affected air agencies the discretion to either include the required annual data requirements report for modeled areas either as an appendix to the state's monitoring plan, or as a stand-alone document. The air agency will have the flexibility under the final rule to select the approach that best meets the Agency's workload, schedule, and particular needs. The EPA believes that either of the procedural approaches will be sufficient to implement the ongoing data requirements. Regardless of which approach is chosen by the air agency, the report must be submitted to the respective EPA Regional Office by July 1st annually and made available for public review and comment. The first report is due on July 1st of the year after the effective date of the area's initial designation and additional reports are due July 1st of each subsequent year.

#### E. Other Key Issues and Comments

Comments on the proposed rule also raised several other issues not already addressed in this document. This section identifies and addresses the key issues raised by those comments.

#### 1. March 2015 Consent Decree

The proposed rule did not contain any regulatory deadlines for the EPA to complete area designations under the 2010 SO<sub>2</sub> NAAQS. However, at the same time that the EPA was developing the proposed rule and the final rule, the agency was also engaged in district court litigation from public interest groups and some states and state agencies seeking to have the EPA placed on a binding schedule to complete the designations. The parties in these cases filed complete briefs in one of these cases, resulting first in the court finding that the EPA was liable for having failed to meet the statutory deadline to complete all area designations. Subsequently, the EPA and the other parties conducted extensive settlement discussions over the remedy, *i.e.*, the schedule by which the EPA would complete its duties. This resulted in a settlement between the EPA and the public interest group plaintiffs, which the plaintiff-intervenors did not join.

On June 2, 2014, the EPA published notice of a proposed consent decree reflecting this settlement (*Sierra Club et al v. McCarthy*, Civil Action No. 3:13-cv-3953-SI (N.D. Cal.)). 79 FR 31325. This proposed consent decree included deadlines for the EPA to complete designations in three phases, the latter two of which were due on the same dates that the EPA discussed as its intended designations dates in the preamble to the proposed DRR. The EPA received several comments on the notice informing the public of the proposed consent decree itself, and in response to this proposed rule.

The EPA is not promulgating deadlines for its completion of area designations in this final rule. Therefore, any comments directed to the merits of the consent decree itself are outside the scope of this rulemaking, and we will not respond to them here. Instead, as discussed earlier in this document, on March 2, 2015, the court issued an order entering the consent decree and establishing its deadlines as binding on the EPA. As also explained earlier, the 2017 and 2020 deadlines for the latter two stages of designations established by the consent decree will allow the EPA and states to use the new data and information that is timely generated by the implementation of this rule to inform the designations required to be completed by those dates, but it is not likely that full implementation of the rule can occur quickly enough to support the next round of designations required by the court's order to be completed by July 2, 2016.

#### 2. Recommendations for the EPA To Designate Areas as Unclassifiable

Several commenters recommended that the EPA take prompt action to designate areas with inadequate data for air quality characterization as unclassifiable. A number of commenters asserted that the EPA cannot use the rule to supersede the statutory schedule under which the EPA is required to make area designations, including statutorily-appropriate "unclassifiable" designations. One industry group commented that the CAA does not authorize the EPA to conduct designations according to the schedule anticipated by the proposed rule preamble, commenting that the EPA must instead complete designations in accordance with the schedule under CAA section 107(d)(1) (designating areas unclassifiable where appropriate), and then redesignating unclassifiable areas as either attainment or nonattainment later. Similarly, a state commenter expressed the view that further data are not necessary to meet the CAA. Several commenters also stated that the proposed rule effectively nullifies the "unclassifiable" designation, use of which would have allowed the EPA to meet its statutory deadline. One commenter also stated that the EPA should continue to use the "unclassifiable" designation where appropriate, and should not seek to designate all areas as attainment or nonattainment.

Several commenters also addressed the interrelationship between the proposed rule and the proposed consent decree for settling the lawsuit regarding the EPA's failure to promulgate designations for areas without monitored violations. One state commenter urged that the EPA codify the proposed consent decree into the rule. Another state commenter objected to this suggestion, stating that the proposed consent decree specifies a designations schedule that conflicts with the proposed schedule and compromises a commenter's ability to comment on the impact of that consent decree on the rule. An industrial commenter found the consent decree to undermine the proposed rule. These commenters urged that the EPA re-propose the relationship between the consent decree and the rule. An industry group stated that the issuance of the proposed consent decree undermines the rule because it would require an early round of designations that would be based on modeling, in contravention of the process under the proposed rule that offers the option of basing designations on monitoring data.

As stated previously, the EPA is not establishing or modifying any area designation requirements provided for in section 107 of the CAA through this rulemaking. The purpose of this rulemaking is to require states to characterize air quality in priority areas throughout the country where existing ambient monitors may not be adequately characterizing peak 1-hour SO<sub>2</sub> concentrations. The air quality data obtained as a result of this rulemaking then may be used in future designations or redesignations, as appropriate. While the notice of proposed rulemaking described the EPA's anticipated designations schedule, for purposes of explaining the timeline by which the EPA anticipates that the data the EPA was proposing to require will be used, the timeline for possible future use of these data does not dictate the schedule or the substantive features of the requirements for obtaining data for air quality characterization purposes, and the Agency believes it will be highly valuable to obtain these data even if that occurs after initial designations occur.

While the notice of proposed rulemaking described the EPA's expectations that designations for areas not already completed in August 2013 would be completed either in 2017 or in 2020, the timetables for obtaining additional data are as prompt as the EPA considers reasonable whether or not such data can be used to inform the remaining designations, and thus alternate approaches and timetables for designations would not result in a different timetable for implementation of the rule's requirements. In particular, whether designations proceed according to the approach described in the EPA's notice of proposed rulemaking, or whether areas are first designated unclassifiable and subsequently redesignated to attainment or nonattainment, the same timetable, and substance of requirements for data to support more properly informed future judgments regarding areas' attainment status is warranted. Because this rulemaking is not intended to define the designations process and did not propose regulatory deadlines for issuing designations, it would be inappropriate in this final rulemaking to codify any particular schedule for designations action.

The proposed consent decree referenced by the comments concerns separate legal proceedings that are addressing the EPA's obligations to designate areas under CAA section 107. The commenters have not identified why any potential outcome of those proceedings warrants any particular revision to the rule, nor have they

explained why the validity of the DRR is contingent on use of any particular designations approach. While the court's decision establishing timing requirements for the EPA's designations obligations will of course affect the EPA's approach to designations, including affecting the extent to which the EPA will be able to use the data required under the rule at various times in the designations or redesignations processes, these effects do not determine the validity of the data collection requirements of the rule. For these reasons, the EPA believes that the ability of commenters to address issues relevant to the rule was not compromised by the proposed consent decree and other actions or statements in the proceedings regarding the EPA's timetable for designations, and the EPA finds that re-proposal of the rule is not justified.

### 3. The Cost of Monitoring or Modeling Under this Rule

Several state and industry commenters stated that, because of funding limitations at the state level, any monitoring or modeling done to meet the requirements of the rule would likely need to be done by the affected sources. Commenters also stated that the rule will present yet another burden on the regulated community when facilities are already spending resources on emissions reductions projects that are required as the result of other EPA air quality rules.

Commenters also stated that even if sources voluntarily set up and operate their own monitors, state and local agencies will nevertheless still need to dedicate resources to administer the program, provide technical assistance, conduct performance audits, ensure data quality and submit the data to the EPA's AQS database each year. Commenters also stated that the initial state funding should be provided by the EPA through CAA section 103 or 105 grant funds in order to establish the monitoring sites required to meet the requirements of the rule.

The EPA recognizes that there will be costs and resources required to satisfy the requirements of this rulemaking. As suggested by both state and industry stakeholders who attended the EPA's May–June 2012 stakeholder meetings, in the absence of increased grant funding it may be necessary for air agencies to rebalance their existing grant funds for this purpose, or to consider alternative funding approaches such as working closely with affected sources to assist in funding either the modeling or monitoring required to meet the requirements of the rule. Early planning

may be helpful to address these funding needs.

Because the CAA assigns to states much of the responsibility for developing air quality characterization data, the EPA describes the requirements of this rule in a consistent manner: Air agencies are the entities with principal responsibility to establish and operate monitors, and conduct modeling, and to provide air quality data to the EPA. However, the EPA recognizes that other parties (such as facility owners) also may perform significant portions of the work that this rule requires. The EPA would consider monitoring or modeling conducted by a third party to be an appropriate means for air agencies to obtain the data necessary to meet the requirements of this rule, provided that the state provides oversight to assure that (1) any monitoring is conducted in a manner that is equivalent to SLAMs and quality-assured in accordance with applicable requirements, and (2) any modeling analysis that the state submits, even if it was initially provided to the state by a third party, is done in a reasonable manner and follows the recommendations in the Modeling TAD or as otherwise agree upon with the EPA Regional Office on a case-by-case basis.

### 4. How the DRR Addresses SO<sub>2</sub> Sources in Areas That Are Already Designated

The intent of this DRR is to direct state and tribal air agencies to characterize air quality in areas around the largest sources of SO<sub>2</sub> emissions, through the use of either air quality modeling or ambient monitoring, and to provide such data to the EPA. The additional information required by this rule will be able to inform future action by the EPA or the state (e.g., future designation decisions).

The proposed rule did not specifically address whether the requirement to characterize a sources' SO<sub>2</sub> emission impacts would apply differently based on whether areas containing sources were still undesignated, or whether they had already been designated as nonattainment, attainment, or unclassifiable. However, much of the discussion in the proposed rule preamble concerned how implementation of the rule might inform future area designations, thus implying that the air quality characterization requirement might apply only to areas that remained undesignated at the time of the rule's implementation. The EPA believes it is necessary to clarify how the rule applies to areas that have already been designated in some manner, either during the initial round of designations in August 2013 or in

subsequent rounds of designations pursuant to the March 2015 consent decree.

The first question is whether air agencies are required under this rule to characterize air quality near sources in areas that were designated as nonattainment in August 2013. *See* 78 FR 47191, August 5, 2013. In general, we expect nonattainment plans to provide adequate characterization of the impacts of sources within those nonattainment areas. Therefore, we have concluded that an air agency will not be required under this rule to characterize air quality around SO<sub>2</sub> sources located in a designated nonattainment area. Specifically, we have clarified the definition of “applicable source” in § 51.1200 of the final rule to be “a stationary source that is (1) not located in a designated nonattainment area, and (2) has annual actual SO<sub>2</sub> emissions of 2,000 tons or more, or has been identified by an air agency or by the EPA Regional Administrator as requiring further air quality characterization.” Thus, as a general matter, this rule does not require the state’s January 2016 list of sources triggering the requirements of this rule to include sources located within areas already designated as nonattainment.

However, it may be possible that in some cases an SO<sub>2</sub> source or group of sources within the boundary of an existing nonattainment area can have significant impacts outside the nonattainment area, potentially raising concerns that these impacts might not be adequately evaluated in a nonattainment plan. The EPA notes that for such cases, the air agency and the EPA Regional Administrator retain the authority under this rule to require additional characterization of air quality around specific sources located in an existing nonattainment area, in the same manner that they retain the authority, as warranted, to require characterization of air quality around sources that are below the emissions threshold identified in this rule.

Related questions also arise for sources in areas that will be subject to evaluation and designation by July 2016 under the March 2015 consent decree regarding SO<sub>2</sub> designations. Because all sources that meet the March 2015 consent decree criteria for designation by July 2016 will also exceed the 2,000 ton threshold under this DRR, these sources will need to be included on the January 2016 list of sources subject to requirements for air quality characterization under this rule. Subsequent designations do not alter this list. The list is a permanent list of prioritized sources that excludes

sources in areas designated as nonattainment before January 2016 and is not altered by designations promulgated after January 2016. In particular, the list of sources would not be altered by promulgation of nonattainment designations in July 2016. Nevertheless, the EPA expects that if the area around a “consent decree” source is designated as nonattainment by July 2016, pursuant to the consent decree, then the information that was adequate to inform this designation would also satisfy the air agency’s obligation under this rule to submit modeling information in January 2017 characterizing air quality around that source.

The next question is how this rule applies to sources in areas that have been designated as “unclassifiable” or as “unclassifiable/attainment.”<sup>12</sup> The EPA did not apply these designations to any areas in August 2013, but the EPA may apply these designations to some areas in the designations required to be completed by July 2016. This rule requires air quality characterization for areas previously designated as unclassifiable, just as it requires air quality characterization for undesignated areas. If the EPA has previously determined through a designation action that sufficient information has not yet been identified to support an attainment or nonattainment designation (*i.e.*, the area was initially designated as unclassifiable), then the additional information required by this rule will be used to inform possible future actions by the EPA or the state (*e.g.*, to determine whether the area is attaining or not attaining the standard, and change designation status).

With regard to “unclassifiable/attainment” areas, no areas were given this designation in the August 2013 designations. However, it is possible that some areas may be given this designation in the July 2016 designations based on relevant air quality characterization information (such as air quality modeling) that has been provided by the air agency or other

parties in the designations process. The applicable sources in any such areas designated pursuant to the March 2015 consent decree would have also been included in the list of sources that air agencies would be required to submit to the EPA in January 2016 according to this rule. If an area has already been designated by the EPA as “unclassifiable/attainment” by July 2016 pursuant to the consent decree, then the EPA expects that, as was the case for areas as designated nonattainment, the information that was adequate to inform an unclassifiable/attainment designation would also satisfy the air agency’s obligation under this rule to submit modeling information in January 2017 characterizing air quality around that source. As a result, under this rule, the air agency would not be required to provide additional air quality characterization information to the EPA by January 2017.

However, these already-designated “unclassifiable/attainment” areas would nevertheless be subject to the ongoing data requirements included in § 51.1205 of this rule. While modeling for purposes of informing designations promulgated by July 2016 would also be considered modeling to address the requirements of this rule, the EPA is promulgating revised rule language that clarifies that the ongoing data requirements apply to areas modeled based on actual emissions whether that modeling was conducted for purposes of informing designations by July 2016 or conducted only for satisfying the requirements of this rule. Accordingly, § 51.1205(b) has been modified to apply to any attainment area designated based on modeling of actual emissions to characterize air quality.

##### 5. How Air Agencies Should Address Modeling and Monitoring in Multi-State Areas To Meet the Requirements of the Rule

As with the previous issue, a review of the comments and questions received from states has made the EPA aware of the need to clarify how the rule applies to situations where an applicable source that is located in one state or tribal jurisdiction has an impact on SO<sub>2</sub> concentrations in one or more other jurisdictions. While the final rule preserves the option of the air agency of the jurisdiction in which the source is located to choose how to satisfy the air quality characterization requirements of the rule (*i.e.*, through either monitoring or modeling), the EPA urges all air agencies involved to consult and coordinate in order to make appropriate decisions concerning whether modeling

<sup>12</sup> While states have and may continue to submit designations recommendations identifying areas as “attainment,” the EPA expects to continue its traditional approach, where appropriate, of using a designation category of “unclassifiable/attainment” for areas that the EPA determines meet the NAAQS. The EPA expects to reserve the category “unclassifiable” for areas where the EPA cannot determine based on available information whether the area is meeting or not meeting the NAAQS or where the EPA cannot determine whether the area contributes to a violation in a nearby area. *See* SO<sub>2</sub> designations guidance issued by Stephen D. Page on March 20, 2015, available at <http://www.epa.gov/airquality/sulfurdioxide/pdfs/20150320SO2designations.pdf>.



or monitoring would be the most effective method to characterize the peak 1-hour SO<sub>2</sub> concentrations in the ambient air affected by such sources.

If the jurisdiction in which the source is located prefers to employ ambient monitoring to characterize air quality, the EPA believes it would be appropriate to use ambient monitoring only if: (1) The air agency coordinates with the other jurisdiction in identifying appropriate ambient monitoring sites; and (2) there is an agreement established with the other jurisdiction (in which peak 1-hour SO<sub>2</sub> impacts are being experienced), and possibly with the facility owner, regarding logistical, financial and operational responsibilities associated with the purchase, installation and operation of the monitor or monitors that is acceptable to all parties. However, if one or both jurisdictions do not wish to employ ambient monitoring, and a monitoring agreement cannot be reached, the EPA believes that the obligation to characterize air quality rests with the jurisdiction in which the source is located. Without an adequate multi-jurisdiction monitoring plan, the air agency would need to use modeling analyses to characterize air quality in the multi-jurisdiction area. Consultation among all involved jurisdictions will be important for planning and conducting technically appropriate modeling. The EPA expects that early and active coordination among all involved parties can lead to beneficial agreements for characterizing air quality in multi-jurisdiction areas, and the EPA will work with air agencies to help facilitate such agreements.

#### V. Environmental Justice Considerations

The EPA believes the human health or environmental risk addressed by this action will not have disproportionately high and adverse human health or environmental effects on minority, low-income, or indigenous populations because it does not affect the level of protection provided to human health or the environment under the SO<sub>2</sub> NAAQS. When promulgated, these regulations will require that air agencies characterize air quality around certain large emissions sources, or secure emission limits on sources to reduce annual emissions below 2,000 tpy. It is intended that the actions resulting from this rule would lead to greater protection for U.S. citizens, including minority, low-income, or indigenous populations, by reducing exposure to high ambient concentrations of SO<sub>2</sub>. In addition, this rule will help communities by informing residents

about ambient air quality around the largest sources of SO<sub>2</sub>.

#### VI. Statutory and Executive Order Reviews

##### A. Executive Order 12866: Regulatory Planning and Review and Executive Order 13563: Improving Regulation and Regulatory Review

This action is not an economically significant action, but raises novel policy issues and was submitted to the Office of Management and Budget (OMB) for review. Any changes made in response to OMB recommendations have been documented in the docket.

##### B. Paperwork Reduction Act (PRA)

The information collection activities in this rule have been submitted for approval to the Office of Management and Budget (OMB) under the PRA. The Information Collection Request (ICR) document that the EPA prepared has been assigned EPA ICR number 2495.01. A copy of the ICR is available in the docket for this rule, and is briefly summarized here. The information collection requirements are not enforceable until OMB approves them.

The EPA is requiring air agencies to more extensively characterize ambient SO<sub>2</sub> air quality concentrations, pursuant to sections 110(a)(2)(B), 110(a)(2)(K), 301(a) and 114 of the CAA. For purposes of analysis of the estimated paperwork burden, the EPA assumed that 43 states and tribes would take actions to characterize air quality through either air quality modeling or ambient monitoring in 412 areas around SO<sub>2</sub> sources emitting 2,000 tpy or more across the country, and such states would submit the results of these analyses to the EPA. Under this rule, the air agency will have the ability to choose, on an area-by-area basis, the analytical approach to follow for characterizing air quality around each qualifying source. For this reason, there is no way of determining exactly how many areas may be characterized through ambient monitoring versus air quality modeling approaches. Therefore, this section presents two sets of estimated costs, one that assumes all source areas would be characterized through ambient monitoring, and the other that assumes that all source areas would be characterized through air quality modeling.

Potential ambient air monitoring costs are estimated based on the assumption that air quality for each of the 412 SO<sub>2</sub> sources exceeding the 2,000 tpy threshold would be characterized through a single newly deployed air monitor. (Note, however, that the

Monitoring TAD discusses situations where more than one monitor may be appropriate or necessary to properly characterize peak 1-hour SO<sub>2</sub> concentrations in certain areas, which would increase costs proportionally.) Estimates are provided for a 3-year period and include a calculation for equipment amortization over 7 years (as is typically done in monitoring-related ICRs). For the period of 2016, 2017, and 2018 (monitoring related expenditures would begin in 2016), the total approximate average annual monitoring cost, including a calculation for equipment amortization, is \$8,662,110 (total capital, and labor and non-labor operation and maintenance) with a total burden of 102,869 hours. The annual labor costs associated with these hours is \$7,080,572. Included in the \$8,662,110 total are other annual costs of non-labor operations and maintenance of \$706,827 and equipment and contract costs of \$874,711. For reference purposes, an estimate for initial establishment of a new SO<sub>2</sub> monitoring station is \$92,614 (does not include equipment amortization). In addition to the costs that would be incurred by the state and local air agencies, there would be an estimated burden to the EPA related to salary cost and equipment cost, etc., of a total of 52,717 hours and \$776,005.

Potential air quality modeling costs are estimated based on the assumption that air quality for each of the 412 SO<sub>2</sub> sources exceeding the 2,000 tpy threshold would be characterized through air quality modeling analyses. Based on market research, stakeholder feedback and assumptions about the procedures to follow when conducting modeling for designations purposes,<sup>13</sup> an estimate of modeling costs for a single modeling run centered on an identified source would be approximately \$30,000. If air agencies choose to characterize air quality through modeling analyses around all 412 sources expected to be identified as exceeding the source threshold, then total national costs for modeling analyses would be estimated at \$12,360,000. If these costs were incurred over the course of 3 years, then the approximate annual cost for each year over that period would be \$4,120,000.

An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB

<sup>13</sup> The Draft SO<sub>2</sub> NAAQS Designations Modeling Technical Assistance Document can be found at: <http://www.epa.gov/airquality/sulfurdioxide/pdfs/SO2ModelingTAD.pdf>.

control number. The OMB control numbers for the EPA's regulations in 40 CFR are listed in 40 CFR part 9. When OMB approves this ICR, the agency will announce that approval in the **Federal Register** and publish a technical amendment to 40 CFR part 9 to display the OMB control number for the approved information collection activities contained in this final rule.

#### *C. Regulatory Flexibility Act (RFA)*

I certify that this action will not have a significant economic impact on a substantial number of small entities under the RFA. In making this determination, the impact of concern is any significant adverse economic impact on small entities. An agency may certify that a rule will not have a significant economic impact on a substantial number of small entities if a rule relieves regulatory burden, has no net burden or otherwise has a positive economic effect on the small entities subject to the rule. This final rule will not impose any requirements directly on small entities. Entities potentially affected directly by this final rule include state, local and tribal governments and none of these governments are small entities. Other types of small entities are also not directly subject to the requirements of this rule.

#### *D. Unfunded Mandates Reform Act (UMRA)*

This action does not contain any unfunded mandate of \$100 million or more as described in UMRA, 2 U.S.C. 1531, and does not significantly or uniquely affect small governments.

#### *E. Executive Order 13132: Federalism*

This action does not have federalism implications. It will not have substantial direct effects on the states, on the relationship between the national government and the states, or on the distribution of power and responsibilities among the various levels of government. The requirement to characterize air quality to inform the area designation process for the revised NAAQS is imposed by the CAA. This rule is intended to interpret those requirements as they apply to the 2010 1 hour SO<sub>2</sub> NAAQS.

#### *F. Executive Order 13175: Consultation and Coordination With Indian Tribal Governments*

This action does not have tribal implications, as specified in Executive Order 13175. It would not have a substantial direct effect on one or more Indian tribes. Furthermore, this regulation does not affect the

relationship or distribution of power and responsibilities between the federal government and Indian tribes. The CAA and the Tribal Air Rule establish the relationship of the federal government and tribes in characterizing air quality and developing plans to attain the NAAQS, and this regulation does nothing to modify that relationship. Thus, Executive Order 13175 does not apply to this action.

Consistent with the EPA Policy on Consultation and Coordination with Indian tribes, the EPA held several meetings with tribal environmental professionals to discuss issues associated with this rule, including discussions at the National Tribal Forum on May 1, 2013, and on National Tribal Air Association policy calls. These meetings discussed the SO<sub>2</sub> implementation White Paper. The EPA provided an opportunity for tribes and stakeholders to provide written comments on the concepts discussed in the White Paper. Summaries of these meetings are included in the docket for this rule. The EPA also provided information on the proposed rule and conducted consultation with the National Tribal Air Association in the form of a briefing on April 24, 2014, and a webinar on May 21, 2014.

#### *G. Executive Order 13045: Protection of Children From Environmental Health and Safety Risks*

The EPA interprets Executive Order 13045 as applying only to those regulatory actions that concern environmental health or safety risks that the EPA has reason to believe may disproportionately affect children, per the definition of "covered regulatory action" in section 2-202 of the Executive Order. This action is not subject to Executive Order 13045 because it does not directly involve an environmental health risk or safety risk.

#### *H. Executive Order 13211: Actions Concerning Regulations That Significantly Affect Energy Supply, Distribution, or Use*

This action is not a "significant energy action" because it is not likely to have a significant adverse effect on the supply, distribution or use of energy. The EPA is finalizing this SO<sub>2</sub> DRR to require air agencies to more extensively characterize ambient SO<sub>2</sub> air quality concentrations, pursuant to sections 110(a)(2)(B), 110(a)(2)(K), 301(a) and 114 of the CAA. The rule does not prescribe specific control strategies by which the SO<sub>2</sub> NAAQS will be met. Such strategies will be developed by states on a case-by-case basis only if the information generated by this rule

results in an area being designated nonattainment, thereby triggering the need for the state to develop an attainment plan for the area. The EPA cannot predict whether the attainment plan prepared by the state will include regulations on energy suppliers, distributors, or users. Thus, the EPA concludes that this rule is not likely to have any adverse energy effects.

#### *I. National Technology Transfer and Advancement Act*

This action does not involve technical standards.

#### *J. Executive Order 12898: Federal Actions To Address Environmental Justice in Minority Populations and Low-Income Populations*

The EPA believes the human health or environmental risk addressed by this action will not have potential disproportionately high and adverse human health or environmental effects on any population, including any minority, low-income or indigenous populations, because it does not affect the level of protection provided to human health or the environment. That level of protection is established by the NAAQS itself. The results of the evaluation of environmental justice considerations is contained in section V of this preamble titled, "Environmental Justice Considerations."

#### *K. Congressional Review Act (CRA)*

This action is subject to the CRA, and the EPA will submit a rule report to each House of the Congress and to the Comptroller General of the United States. This action is not a "major rule" as defined by 5 U.S.C. 804(2).

#### *L. Judicial Review*

Under section 307(b)(1) of the CAA, petitions for judicial review of this final action must be filed in the United States Court of Appeals for the District of Columbia Circuit by October 20, 2015. Filing a petition for reconsideration by the Administrator of this final action does not affect the finality of this action for the purposes of judicial review nor does it extend the time within which a petition for judicial review must be filed, and shall not postpone the effectiveness of this action.

#### **Statutory Authority**

The statutory authority for this action is provided by 42 U.S.C. 7401 *et seq.*, and particularly sections 7403, 7407, 7410, 7414 and 7601.



**List of Subjects in 40 CFR Part 51**

Environmental protection, Air pollution control, Intergovernmental relations, Sulfur oxides.

Dated: August 10, 2015.

**Gina McCarthy,**  
Administrator.

For the reasons stated in the preamble, title 40, chapter I, part 51 of the Code of Federal Regulations is amended as follows:

**PART 51—REQUIREMENTS FOR PREPARATION, ADOPTION, AND SUBMITTAL OF IMPLEMENTATION PLANS**

- 1. The authority citation for part 51 continues to read as follows:

**Authority:** 23 U.S.C. 101; 42 U.S.C. 7401–7671q.

- 2. Subpart BB is added to read as follows:

**Subpart BB—Data Requirements for Characterizing Air Quality for the Primary SO<sub>2</sub> NAAQS**

Sec.

- 51.1200 Definitions.  
51.1201 Purpose.  
51.1202 Applicability.  
51.1203 Air agency requirements.  
51.1204 Enforceable emission limits providing for attainment.  
51.1205 Ongoing data requirements.

**Subpart BB—Data Requirements for Characterizing Air Quality for the Primary SO<sub>2</sub> NAAQS**

**§ 51.1200 Definitions.**

The following definitions apply for the purposes of this subpart. All terms not defined herein will have the meaning given them in § 51.100 or in the Clean Air Act (CAA). *Air agency* means the agency or organization responsible for air quality management within a state, local governmental jurisdiction, territory or area subject to tribal government. *Annual SO<sub>2</sub> emissions data* means the quality-assured annual SO<sub>2</sub> emissions data for a stationary source. Such data may have been required to be reported to the EPA in accordance with an existing regulatory requirement (such as the Air Emissions Reporting Rule or the Acid Rain Program); however, annual SO<sub>2</sub> emissions data may be obtained or determined through other reliable means as well.

*Applicable source* means a stationary source that is:

- (1) Not located in a designated nonattainment area, and
- (2) Has actual annual SO<sub>2</sub> emissions data of 2,000 tons or more, or has been identified by an air agency or by the

EPA Regional Administrator as requiring further air quality characterization. *2010 SO<sub>2</sub> NAAQS* means the primary National Ambient Air Quality Standard for sulfur oxides (sulfur dioxide) as codified at 40 CFR 50.17, as effective August 23, 2010.

**§ 51.1201 Purpose.**

The purpose of this subpart is to require air agencies to develop and submit air quality data characterizing maximum 1-hour ambient concentrations of SO<sub>2</sub> across the United States through either ambient air quality monitoring or air quality modeling analysis at the air agency's election. These monitoring and modeling data may be used in future determinations by the EPA regarding areas' SO<sub>2</sub> NAAQS attainment status, or for other actions designed to ensure attainment of the 2010 SO<sub>2</sub> NAAQS and provide protection to the public from the short-term health effects associated with exposure to SO<sub>2</sub> concentrations that exceed the NAAQS.

**§ 51.1202 Applicability.**

This subpart applies to any air agency in whose jurisdiction is located one or more applicable sources of SO<sub>2</sub> emissions that have annual actual SO<sub>2</sub> emissions of 2,000 tons or more; or in whose jurisdiction is located one or more sources of SO<sub>2</sub> emissions that have been identified by the air agency or by the EPA Regional Administrator as requiring further air quality characterization. For the purposes of this subpart, the subject air agency shall identify applicable sources of SO<sub>2</sub> based on the most recently available annual SO<sub>2</sub> emissions data for such sources.

**§ 51.1203 Air agency requirements.**

(a) The air agency shall submit a list of applicable SO<sub>2</sub> sources identified pursuant to § 51.1202 located in its jurisdiction to the EPA by January 15, 2016. This list may be revised by the Regional Administrator after review based on available SO<sub>2</sub> emissions data.

(b) For each source area subject to requirements for air quality characterization, the air agency shall notify the EPA by July 1, 2016, whether it has chosen to characterize peak 1-hour SO<sub>2</sub> concentrations in such area through ambient air quality monitoring; characterize peak 1-hour SO<sub>2</sub> concentrations in such area through air quality modeling techniques; or provide federally enforceable emission limitations by January 13, 2017 that limit emissions of applicable sources to less than 2,000 tpy, in accordance with paragraph (e) of this section, or provide documentation that the applicable

source has permanently shut down. Emission limits in accordance with paragraph (e) of this section may be established in lieu of conducting monitoring or modeling unless, in the judgment of the air agency or the EPA Regional Administrator, the area warrants further air quality characterization even with the establishment of any new emission limit(s). If the air agency has chosen to establish requirements to limit emissions for applicable sources in an area, the notification from the air agency shall describe the requirements and emission limits the air agency intends to apply. For any area with multiple applicable sources, the air agency (or air agencies if a multi-state area) shall use the same technique (monitoring, modeling, or emissions limitation) for all applicable sources in the area. If multiple air agencies have applicable sources in an area, the air agencies must consult with each other to employ a common technique for the area.

(c) *Monitoring.* For each area identified in the notification submitted pursuant to paragraph (b) of this section as an area for which SO<sub>2</sub> concentrations will be characterized through ambient monitoring, the required monitors shall be sited and operated either as SLAMS or in a manner equivalent to SLAMS. In either case, monitors shall meet applicable criteria in 40 CFR part 58, appendices A, C, and E and their data shall be subject to data certification and reporting requirements as prescribed in 40 CFR 58.15 and 58.16. These requirements include quarterly reporting of monitoring data to the Air Quality System, and the annual certification of data by May 1 of the following year.

(1) The air agency shall include relevant information about monitors used to meet the requirements of this paragraph (c) in the air agency's Annual Monitoring Network Plan required by 40 CFR 58.10 due July 1, 2016. The air agency shall consult with the appropriate EPA Regional Office in the development of plans to install, supplement, or maintain an appropriate ambient SO<sub>2</sub> monitoring network pursuant to the requirements of 40 CFR part 58 and of this subpart.

(2) All existing, *new*, or relocated ambient monitors intended to meet the requirements of this paragraph (c) must be operational by January 1, 2017 and must be operated continually until approved for shut down by EPA.

(3) Any SO<sub>2</sub> monitor identified by an air agency in its approved Annual Monitoring Network Plan as having the purpose of meeting the requirements of this paragraph (c) that: Is not located in

an area designated as nonattainment as the 2010 SO<sub>2</sub> NAAQS is not also being used to satisfy other ambient SO<sub>2</sub> minimum monitoring requirements listed in 40 CFR part 58, appendix D, section 4.4; and is not otherwise required as part of a SIP, permit, attainment plan or maintenance plan, may be eligible for shut down upon EPA approval if it produces a design value no greater than 50 percent of the 2010 SO<sub>2</sub> NAAQS from data collected in either its first or second 3-year period of operation. The air agency must receive EPA Regional Administrator approval of a request to cease operation of the monitor as part of the EPA's action on the Annual Monitoring Network Plan under 40 CFR 58.10 prior to shutting down any qualifying monitor under this paragraph (c).

(d) *Modeling.* For each area identified in the notification submitted pursuant to paragraph (b) of this section as an area for which SO<sub>2</sub> concentrations will be characterized through air quality modeling, the air agency shall submit by July 1, 2016, a technical protocol for conducting such modeling to the Regional Administrator for review. The air agency shall consult with the appropriate EPA Regional Office in developing these modeling protocols.

(1) The modeling protocol shall include information about the modeling approach to be followed, including but not limited to the model to be used, modeling domain, receptor grid, emissions dataset, meteorological dataset and how the air agency will account for background SO<sub>2</sub> concentrations.

(2) Modeling analyses shall characterize air quality based on either actual SO<sub>2</sub> emissions from the most recent 3 years, or on any federally enforceable allowable emission limit or limits established by the air agency or the EPA and that are effective and require compliance by January 13, 2017.

(3) Except as provided by § 51.1204, the air agency shall conduct the modeling analysis for any applicable source identified by the air agency pursuant to paragraph (a) of this section, and for its associated area and any nearby area, as applicable, and submit the modeling analysis to the EPA Regional Office by January 13, 2017.

(e) *Federally enforceable requirement to limit SO<sub>2</sub> emissions to under 2,000 tons per year.* For each area identified

in the notification submitted pursuant to paragraph (b) of this section as an area for which the air agency will adopt federally enforceable requirements in lieu of characterizing air quality through monitoring or modeling, the air agency shall submit documentation to the EPA by January 13, 2017, showing that such requirements have been adopted, are in effect, and been made federally enforceable by January 13, 2017, through an appropriate legal mechanism, and the provisions either:

(1) Require the applicable sources in the area to emit less than 2,000 tons of SO<sub>2</sub> per year for calendar year 2017 and thereafter; or

(2) Document that the applicable sources in the area have permanently shut down by January 13, 2017.

#### **§ 51.1204 Enforceable emission limits providing for attainment.**

At any time prior to January 13, 2017, the air agency may submit to the EPA federally enforceable SO<sub>2</sub> emissions limits (effective no later than January 13, 2017) for one or more applicable sources that provide for attainment of the 2010 SO<sub>2</sub> NAAQS in the area affected by such emissions. The submittal shall include associated air quality modeling and other analyses that demonstrate that all modeling receptors in the area will not violate the 2010 SO<sub>2</sub> NAAQS, taking into account the updated allowable emission limits on applicable sources as well as emissions limits that may apply to any other sources in the area. The air agency shall not be subject to the ongoing data requirements of § 51.1205 for such area if the air quality modeling and other analyses demonstrate that the area will not violate the 2010 SO<sub>2</sub> NAAQS.

#### **§ 51.1205 Ongoing data requirements.**

(a) *Monitored areas.* For any area where SO<sub>2</sub> monitoring was conducted to characterize air quality pursuant to § 51.1203, the air agency shall continue to operate the monitor(s) used to meet those requirements and shall continue to report ambient data pursuant to existing ambient monitoring regulations, unless the monitor(s) have been approved for shut down by the EPA Regional Administrator pursuant to § 51.1203(c)(3) or pursuant to 40 CFR 58.14.

(b) *Modeled areas.* For any area where modeling of actual SO<sub>2</sub> emissions serve as the basis for designating such area as

attainment for the 2010 SO<sub>2</sub> NAAQS, the air agency shall submit an annual report to the EPA Regional Administrator by July 1 of each year, either as a stand-alone document made available for public inspection, or as an appendix to its Annual Monitoring Network Plan (also due on July 1 each year under 40 CFR 58.10), that documents the annual SO<sub>2</sub> emissions of each applicable source in each such area and provides an assessment of the cause of any emissions increase from the previous year. The first report for each such area is due by July 1 of the calendar year after the effective date of the area's initial designation.

(1) The air agency shall include in such report a recommendation regarding whether additional modeling is needed to characterize air quality in any area to determine whether the area meets or does not meet the 2010 SO<sub>2</sub> NAAQS. The EPA Regional Administrator will consider the emissions report and air agency recommendation, and may require that the air agency conduct updated air quality modeling for the area and submit it to the EPA within 12 months.

(2) An air agency will no longer be subject to the requirements of this paragraph (b) for a particular area if it provides air quality modeling demonstrating that air quality values at all receptors in the analysis are no greater than 50 percent of the 1-hour SO<sub>2</sub> NAAQS, and such demonstration is approved by the EPA Regional Administrator.

(c) Any air agency that demonstrates that an area would meet the 2010 SO<sub>2</sub> NAAQS with allowable emissions is not required pursuant to paragraph (b) of this section to submit future annual reports for the area.

(d) If modeling or monitoring information required to be submitted by the air agency to the EPA pursuant to this subpart indicates that an area is not attaining the 2010 SO<sub>2</sub> NAAQS, the EPA may take appropriate action, including but not limited to requiring adoption of enforceable emission limits to ensure continued attainment of the 2010 SO<sub>2</sub> NAAQS, designation or redesignation of the area to nonattainment, or issuance of a SIP Call.

[FR Doc. 2015-20367 Filed 8-20-15; 8:45 am]

**BILLING CODE 6560-50-P**

## **Appendix E: Response to Comments**

Maryland Department of the Environment Response to Comments  
Regarding this 1-Hour SO<sub>2</sub> State Implementation Plan

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## Appendix E Public Hearing

### MARYLAND DEPARTMENT OF THE ENVIRONMENT

#### RESPONSE TO COMMENTS

Received in

SUBMISSIONS and at the PUBLIC HEARING

Hearing held on January 16, 2020 in Baltimore, Maryland

In relation to

*State of Maryland 1-Hour Sulfur Dioxide (SO<sub>2</sub>) National Ambient Air Quality Standard (NAAQS)*

*State Implementation Plan for the*

*Anne Arundel County and Baltimore County, MD (“Wagner”) Nonattainment Area*

A public hearing will be held on January 16, 2020, at the Maryland Department of the Environment (MDE) Headquarters, 1800 Washington Boulevard, Baltimore, Maryland 21230.

Additional information on the hearing and comments received, including responses to the comments, will be included in this appendix after the public comment period and hearing are complete.