COKE OVEN INTERIM MEASURES
2018 PROGRESS REPORT

TRADEPOINT ATLANTIC
SPARROWS POINT, MARYLAND

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1.0 EXECUTIVE SUMMARY

1.1. CELL 1

The AS/SVE system in the Former Benzol Processing Area (Cell 1) operated from January 9th through the end of the year, removing an estimated 1,076 pounds of hydrocarbons. The system did not operate from February 5th to April 11th due to various maintenance issues. The concentrations of total VOCs in groundwater at the two monitoring wells that are located within or downgradient of the Cell 1 boundary exhibit overall downward trends in concentration since the restart of system operation on April 5, 2017.

1.2. CELL 2

Cell 2 includes an AS/SVE system for the shallow zone groundwater and a GWPT system for the intermediate zone groundwater in the Former Coal Basin Area of the site. The AS/SVE system operated for about two months combined in 2018. The system was turned off indefinitely in April due to yielding extremely low concentrations in recovered vapors. The GWPT system operated for the majority of the time from January through the end of June, resulting in the removal of approximately 2,712 pounds of hydrocarbons from the Cell 2 area. Since 2014, total VOC concentrations in shallow zone groundwater have generally remained the same or decreased slightly. Total VOC concentrations in intermediate zone groundwater had decreased by more than 50% for the two wells with the highest total VOC concentrations, but exhibited slight increases during the third and fourth quarters of 2018 likely due to the concurrent downtime of the system. The total VOC concentrations at all other intermediate zone wells have exhibited overall decreases since 2014 and were relatively stable throughout 2018.

1.3. CELL 3

The AS/SVE system in the "Cove" Area (Cell 3) operated for approximately 4,904 hours in 2018, removing an estimated 151 pounds of hydrocarbons. The system operated from January 9th to September 7th, until it was turned off due to yielding extremely low concentrations in the recovered vapors. The concentrations of volatile hydrocarbons in the groundwater have decreased slightly over the past few years, and current concentrations at the monitoring wells are similar to or slightly lower than concentrations observed when the remedial AS/SVE system was started in June 2011.

1.4. CELL 5

Cell 5 includes a dual-phase extraction (DPE) system and a Dense Non-Aqueous Phase Liquid (DNAPL) recovery system for the shallow zone groundwater in the "Turning Basin" side of the former Coke Oven Area. These systems were operated for the majority of the year, resulting in the removal of approximately 3,762 pounds of hydrocarbons from the Cell 5 area. Since 2014, total VOC concentrations in some shallow zone monitoring wells have demonstrated decreases,

while others have fluctuated but overall have demonstrated little change from initial concentrations.

1.5. CELL 6

Cell 6 consists of an LNAPL Multi-Phase Extraction (MPE) monitoring and recovery system at the Former Benzol Processing Area, along with some manual bailing and skimming. The extraction system and manual bailing removed an estimated 11,000 pounds of LNAPL during 2018, with a cumulative removal amount of approximately 146,882 pounds since LNAPL recovery was initiated in Cell 6 in July 2010 (the MPE system began operation in October 2016). When comparing the average NAPL thicknesses in extraction wells from the fourth quarter 2017 to fourth quarter 2018, NAPL thicknesses exhibited overall decreases in the Cell 6 source area.

2.0 INTRODUCTION

This Coke Oven Interim Measures Progress Report for groundwater remediation at the Tradepoint Atlantic property has been prepared by ARM Group (ARM) on behalf of EnviroAnalytics Group (EAG). This report presents operational information and monitoring data collected over the full year of 2018 for interim measures (IMs) that have been installed to address environmental conditions at the former Coke Oven (CO) Special Study Area. This report summarizes IM performance and is submitted in accordance with reporting requirements outlined in correspondence received from USEPA on March 26, 2013, November 14 and 16, 2017, and subsequent communications.

2.1. TRADEPOINT ATLANTIC SITE BACKGROUND

The Tradepoint Atlantic property is located in Baltimore County, Maryland at the southeastern corner of the Baltimore metropolitan area, approximately nine miles from the downtown area. The property encompasses approximately 3,100 acres located on a peninsula situated on the Patapsco River near its confluence with the Chesapeake Bay, physically positioned in the mouth of the heavily industrialized and urbanized Baltimore Harbor / Patapsco River region. A land connection to the northeast links the peninsula with the adjacent community of Edgemere.

From the late 1800s until 2012, the property was used for the production and manufacturing of steel. Iron and steel production operations and processes at the Site included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, Sparrows Point was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steelmaking operations at the facility ceased in fall 2012, and current plans for the Site include demolition and redevelopment over the next several years. Some portions of the site have already undergone remediation and/or redevelopment.

2.2. COKE OVEN

The IMs currently in operation at the CO are located within five distinct smaller areas designated as Cells 1-3, 5, and 6. Below is a list of the cells, the name of the area they cover, and their current IM system(s):

- Cell 1 (former Benzol Processing Area): Air Sparge/Soil Vapor Extraction (AS/SVE) system;
- Cell 2 (former Coal Basin Area): AS/SVE system in the shallow groundwater zone and groundwater pump and treat (GW P&T) system in the intermediate zone;
- Cell 3 (Cove Area): AS/SVE system;
- Cell 5 (Turning Basin side of former Coke Oven Area): Dual Phase Extraction (DPE) system for the shallow zone;

- Cell 5: Dense Non-Aqueous Phase Liquid (DNAPL) Recovery system; and
- Cell 6 (former Benzol Processing Area): Multi-Phase Extraction (MPE) of Light Non-Aqueous Phase Liquid (LNAPL).

This progress report provides the following for each cell: a brief description of the IM system(s); notable operations activities that occurred during 2018; a discussion of operational and analytical data from 2018, an evaluation of the effectiveness of the IM system(s), and recommendations for continuation or modification of the current IM systems.

3.0 CELL 1

3.1. CELL DESCRIPTION

Cell 1 consists of an AS/SVE system that is coupled with a vapor-phase granular activated carbon (VGAC) off-gas treatment unit. The purpose of the AS/SVE system is to remove volatile organic compounds from the subsurface, while the purpose of the VGAC off-gas treatment unit is to capture VOCs that are present within extracted vapors. **Figure C1-1** shows the system layout of Cell 1 and the locations of the major design components, including the air sparging wells, vapor collection trenches and groundwater monitoring wells.

3.2. OPERATIONS

Operational performance of the AS/SVE system during this reporting period is summarized in **Table C1-1**. The system did not operate from February 5th to April 11th. The SVE blower was removed for maintenance on February 13th and was re-installed on April 12th. For the remainder of the year, the system operated for the majority of the time, with occasional short periods of downtime (ranging from 1 to 17 days in duration). Power loss, repairs, maintenance, and intentional shut-down due to poor efficiency (low concentrations in extracted vapors) all contributed to system downtime. In total, the AS/SVE system operated for a total of 3,631 hours during 2018. The average hydrocarbon removal rate from January to December was approximately 0.329 pounds per operating hour. **Table C1-1** also includes a cumulative summary of operational performance since system startup in August 3, 2010. In total, the AS/SVE system at Cell 1 has removed approximately 13,969 pounds of hydrocarbons as shown graphically in **Figure C1-2**.

SVE influent air samples were collected during the months of January and May through December. Groundwater samples were collected from three wells quarterly to monitor VOC concentrations in the subsurface. Groundwater samples were collected from the following wells each quarter:

- CO93-PZM (former BP-MW-09, upgradient of Cell 1),
- CO18-PZM006 (upgradient of Cell 1 at edge of berm), and
- CO02-PZM006 (downgradient of Cell 1).

The SVE influent air samples and groundwater samples were submitted to Pace Analytical Services, Inc. for analysis.

3.3. MONITORING RESULTS

Analytical results for the SVE influent air samples collected in 2018 are shown in **Table C1-2.** Analytical results for groundwater samples collected in 2018 are shown in **Table C1-3.** A time-series graph of total VOCs measured in groundwater samples is included as **Figure C1-3.**

3.4. EVALUATION OF EFFECTIVENESS

Based on the system monitoring data from 2018, and as shown on **Figure C1-2**, the AS/SVE system is continuing to remove volatile hydrocarbons from the subsurface in the Cell 1 area. The AS/SVE system at Cell 1 removed an estimated 1,076 pounds of VOCs during 2018. This is significantly more yield than the 311 pounds that were removed in 2017. Two main reasons for the increase are more uptime operations and yielding higher concentrations of VOCs in the SVE influent air. As shown on **Table C1-1**, removal efficiency was highest in the fourth quarter. As shown on **Figure C1-3,** the concentrations of total VOCs in groundwater at the two monitoring wells located within or downgradient of the Cell 1 boundary, CO02-PZM006 and CO18-PZM006, exhibit overall downward trends in concentration since the restart of system operation on April 5, 2017.

3.5. SUMMARY AND RECOMMENDATIONS

The AS/SVE system in the Former Benzol Processing Area (Cell 1) operated from January 9th, 2018 through the end of the year, removing an estimated 1,076 pounds of hydrocarbons. This is a notable increase from the total removed during 2017. The concentrations of total VOCs in groundwater at the two monitoring wells that are located within or downgradient of the Cell 1 boundary generally exhibit overall downward trends in concentration since the restart of system operation on April 5, 2017. Based on this information, the existing system should continue to be operated and monitored in accordance with current practices, although consideration will be given to operating the system on an intermittent basis (i.e., periodic shut downs of optimal length to be determined) during parts of 2019 in an attempt to maximize hydrocarbon removal amounts and efficiencies. Continued use of this system should be evaluated subsequent to 2019 depending on long-term groundwater quality requirements to be defined for the CO in 2019.

4.0 CELL 2

4.1. DESCRIPTION

Cell 2 consists of an AS/SVE system coupled with a VGAC off gas treatment unit for groundwater treatment in the shallow zone, and a groundwater pump and treat (GWPT) system for recovery of groundwater in the intermediate zone. The system design plans were approved by USEPA in correspondence received on September 10, 2013, and the system began full-scale operation in October 2014. The system was updated on February 13, 2017 from a CATOX unit to the current VGAC off-gas treatment unit. **Figure C2-1** shows the system layout of Cell 2 and locations of the major design components including the air sparging wells, vapor collection trenches, intermediate groundwater recovery wells, groundwater injection wells and groundwater monitoring well locations.

4.1.1. AS/SVE System

The delivery and recovery systems for the shallow AS/SVE system include the use of air sparge points and a horizontal vapor extraction trench. Eight (8) air sparge points were installed along a 500-foot long stretch near the shoreline of Cell 2. Additional details of the air sparge zone and recovery trench are listed below.

Air Sparge Zone:

- Eight 2-inch diameter AS points, spaced approximately 56 feet apart
- Each AS point installed to 15-17 feet below ground surface (bgs), which is approximately the bottom of the slag fill
- Bottom 2 feet of each point is a 20-slot screen

Recovery Trench:

- 500-foot section of horizontal, 4-inch diameter screened pipe (20-slot) installed to a total depth of 5 feet
- 5 vertical 4-inch risers spaced every 100 feet
- Top 2 feet is a clay cap
- Geotextile fabric 2 feet bgs (under clay)
- Granular screened slag backfill from 2-5 feet bgs
- Horizontal recovery piping located approximately 3 feet bgs (above water table)

4.1.2. GWPT System

The GWPT system includes a low-profile air stripper that utilizes an oxidizer to destroy VOC vapors generated prior to exhausting to the atmosphere. The design groundwater flow rate is for a maximum of 40 gallons per minute (gpm). The oxidizer is sized to handle up to a 600 cubic feet per minute (CFM) air flow rate. The recovery and re-injection systems include the use of six groundwater recovery wells and six groundwater injection wells. The six recovery wells (RWs)

are installed along a 500-foot-long stretch near the shore line of Cell 2. Additional details of the GWPT system are listed below.

Components (recovery wells):

- Six 4-inch diameter wells spaced approximately 83 feet apart
- Installed to 50 feet bgs (intermediate zone)
- Bottom 15 feet of each RW screened with 20-slot screen
- Electric pump in each RW, approximately 8-10 feet above the bottom of the well

Treatment Process:

- Recovered groundwater enters low profile air stripper
- Off-gas sent to CATOX unit for destruction
- Treated groundwater pumped to six 6-inch diameter re-injection wells screened from 5 to 15 feet bgs (shallow zone)

Specific well construction details for each well are shown on **Table C2-2.**

4.2. OPERATIONS

4.2.1. AS/SVE System

Operational performance of the AS/SVE System at Cell 2 during this reporting period is summarized in **Table C2-1**. In summary, the AS/SVE system operated from January 9th to February 28th and April 3rd to April 5th, amounting to approximately 1,012 hours. The average hydrocarbon removal rate during this time was 0.000026 pounds per operating hour, with a total of approximately 0.07 pounds removed. **Table C2-1** also includes a cumulative summary of operational performance since system startup in October 1, 2014. In total, the AS/SVE system at Cell 2 has removed approximately 282 pounds of hydrocarbons.

SVE influent air samples were collected from the VGAC off-gas treatment unit monthly during the three months of system operation. Samples were submitted to Pace Analytical Services, Inc. for analysis.

4.2.2. GWPT System

The GWPT system operated from January 9th to July 1st with occasional periods of downtime (ranging from 1 to 42 days in duration). Power loss, repairs and maintenance all contributed to system downtime. It also operated for a brief period in December from the 12th to the 21st.

Groundwater samples were also collected quarterly to monitor VOC concentrations in the subsurface. Groundwater samples were collected from the following wells:

<u>Shallow Zone</u>

- CO27-PZM012
- CO36-PZM008
- CO38-PZM006

- CO39-PZM007
- CO40-PZM008
- CO41-PZM001
- CO42-PZM004

Intermediate Zone

- CO27-PZM046
- CO36-PZM043
- CO37-PZM038
- CO38-PZM043
- CO39-PZM042
- CO41-PZM036

Groundwater samples were submitted to Pace Analytical Services, Inc. for analysis.

Depth-to-water level measurements were also recorded for each of the groundwater wells in order to calculate static groundwater elevations. The resulting groundwater elevations were used to create groundwater contour maps for both the shallow zone and the intermediate zone. The depth-to-water level measurements and groundwater elevations are summarized in **Table C2-3.** Groundwater elevation contour maps for each quarter are included as **Figures C2-3 to C2-10.**

As shown on **Table C2-4,** the GWPT system extracted and treated over 1.2 million gallons of water from the Cell 2 Area during 2018. Over the course of the year, the average pumping rate for the pump and treat system was about 3,300 gallons per day (gpd), or 2.3 gpm. Quarterly totals of gallons of water discharged through the GWPT system are shown on **Table C2-4**, along with the average hydrocarbon concentrations and removal amounts for each quarter and the entire year.

4.3. MONITORING RESULTS

Analytical results for CATOX/VGAC influent air samples collected in 2018 are shown in **Table C2-5.** Analytical results for groundwater samples collected in 2018 are shown in **Table C2-6.** Concentrations of benzene detected in groundwater samples collected from the shallow zone for each quarter are displayed on **Figures C2-11 through C2-14.** Concentrations of benzene detected in groundwater samples collected from the intermediate zone for each quarter are displayed on **Figures C2-15 through C2-18.** Time-series graphs of total VOCs collected in groundwater samples from shallow zone wells are included as **Figures C2-19** and **Figure C2-20,** while time-series graphs of total VOCs collected in groundwater samples from intermediate zone wells are included as **Figures C2-21** and **Figure C2-22.**

The cumulative hydrocarbon removal amounts from the AS/SVE at Cell 2 are summarized on **Table C2-1**. The quarterly hydrocarbon removal amounts for the GWPT system at Cell 2 during 2018 are summarized on **Table C2-4**, and shown graphically on **Figure C2-2**, along with the previous removal amounts.

The flow of groundwater in the shallow zone groundwater is generally towards the west at a relatively low hydraulic gradient, as depicted in **Figure C2-3** through **Figure C2-6.** The flow of groundwater in the intermediate zone is towards the groundwater extraction wells in the north-central edge of the Cell 2 area, as shown in **Figure C2-7** through **Figure C2-10.**

4.4. EVALUATION OF EFFECTIVENESS

Based on the system monitoring data from 2018, and as shown on **Figure C2-2**, the GWPT system is continuing to remove volatile hydrocarbons from the subsurface in the Cell 2 area. As shown on **Table C2-4** and **Figure C2-2**, approximately 2,712 pounds of hydrocarbons were removed from the Cell 2 area in 2018. The GWPT system removed the vast majority of this hydrocarbon mass; only a minor fraction was removed by the AS/SVE system. Because of the low recovery yield of the AS/SVE system, it was shut down indefinitely in April.

The total amount of hydrocarbons removed via the GWPT system in 2018 was much less than the amount removed in 2017 (approximately 6,800 pounds), but was similar to the amount removed in 2016 (approximately 2,000 pounds). As shown on **Figure C2-19** and **Figure C2-20**, the total VOC concentrations in the shallow zone groundwater generally show an overall decreasing or stable trend since the first sampling event in 2014. As shown on **Figure C2-21** and **Figure C2-22**, the total VOC concentrations at the two intermediate zone groundwater wells with the highest concentrations (i.e., CO27 and CO41) decreased to less than 50% of the concentrations measured at the first sampling event in 2014 by the third quarter of 2016. Concentrations in these two wells were relatively stable from then up until the third and fourth quarters of 2018, during which concentrations exhibited slight increases. These increases were likely due to the system downtime between July 2nd and December 12th. The total VOC concentrations at the other intermediate zone groundwater monitoring wells at Cell 2 generally decreased since the first sampling event in 2014 and were relatively stable throughout 2018.

4.5. SUMMARY AND RECOMMENDATIONS

Cell 2 includes an AS/SVE system for the shallow zone groundwater and a GWPT system for the intermediate zone groundwater in the Former Coal Basin Area of the site. The AS/SVE system operated for about 1.5 months combined. The system was turned off indefinitely in April because of low recovery yields. The GWPT system operated for the majority of the time from January through the end of June, resulting in the removal of approximately 2,712 pounds of hydrocarbons from the Cell 2 area. Since 2014, total VOC concentrations in shallow zone groundwater have remained relatively stable or slightly decreased. Total VOC concentrations in intermediate zone groundwater had decreased by more than 50% for the two wells with the highest total VOC concentrations, but exhibited slight increases during the third and fourth quarters of 2018 likely due to the concurrent downtime of the system. The total VOC concentrations at all other intermediate zone wells have generally decreased since the first sampling event in 2014 and were relatively stable throughout 2018.

Based on this information, the existing GWPT system appears to be effectively removing hydrocarbons from the subsurface and should continue to be operated and monitored in accordance with current practices. The AS/SVE system was not providing effective removal (i.e., less than 0.1 pounds of hydrocarbons removed in 2018) and was shut down in April as a result. Continued use of this system should be evaluated subsequent to 2019 depending on long-term groundwater quality requirements to be defined for the CO in 2019.

Additional horizontal delineation of VOC concentrations in the intermediate zone groundwater to the south and west of the Cell 2 AS/SVE system is proposed in the Former Coke Oven Area Interim Measures Supplemental Investigation Work Plan (ARM, January 2019) to determine if any modifications to the existing GWPT system are warranted to improve contaminant removal efficiencies. The additional delineation is proposed in the form of new temporary piezometers and offshore pore water samples.

5.0 CELL 3

5.1. DESCRIPTION

Cell 3 consists of an AS/SVE system that is coupled with a VGAC off-gas treatment unit. The purpose of the AS/SVE system is removing volatile hydrocarbons from the subsurface, while the purpose of the VGAC off-gas treatment unit is to capture organic compounds from the extracted vapors. **Figure C3-1** shows the system layout of Cell 3 and locations of the major design components, including the air sparging wells, vapor collection trenches and groundwater monitoring wells. The major design components are described in the Cell 3 final design report (*Coke Oven Area Interim Measures Cell 3 "Cove" Area Air Sparge/Soil Vapor Extraction System Design*), submitted to USEPA on March 1, 2011.

5.2. OPERATIONS

Operational performance of the AS/SVE system in Cell 3 during this reporting period is summarized in **Table C3-1**. In summary, the AS/SVE system operated for about 4,900 hours during 2018. The average hydrocarbon removal rate was approximately 0.034 pounds per operating hour in 2018, resulting in the removal of approximately 151 pounds of hydrocarbons. **Table C3-1** also includes a cumulative summary of operational performance since system startup on June 24, 2011. In total, the AS/SVE system in Cell 3 has removed approximately 1,935 pounds of hydrocarbons as shown graphically in **Figure C3-2**.

SVE influent air samples were collected monthly from January through August to monitor the AS/SVE system performance. The system operated from January 9th to September 7th with occasional periods of downtime (ranging from 1 to 8 days in duration). Power loss, repairs and maintenance all contributed to system downtime. The system was turned off in September due to extremely low recovery yields.

Groundwater samples were collected quarterly to monitor VOC concentrations in the subsurface. Groundwater samples were collected from the following wells:

- CO101-PZM (downgradient of Cell 3);
- CO102-PZM (upgradient of Cell 3);
- CO103-PZM (upgradient of Cell 3);
- CO104-PZM (downgradient of Cell 3); and
- CO30-PZM015 (downgradient of Cell 3).

5.3. MONITORING RESULTS

Analytical results for the SVE influent air samples collected in 2018 are shown in **Table C3-2.** Analytical results for groundwater samples collected in 2018 are shown in **Table C3-3.** A time-series graph of total VOCs collected in groundwater samples is included as **Figure C3-3.**

5.4. EVALUATION OF EFFECTIVENESS

Based on the system monitoring data from 2018, and as shown on **Figure C3-2**, the AS/SVE system removed minimal volatile hydrocarbons from the subsurface in the Cell 3 area. As shown on **Table C3-1** and **Figure C3-2**, approximately 151 pounds of hydrocarbons were removed from the Cell 3 area in 2018, and at an average rate slightly greater than that of 2017. The groundwater monitoring data indicate that benzene and naphthalene are the most prevalent constituents in groundwater at Cell 3. All five of the Cell 3 monitoring wells have shown a generally stable or gradual decreasing trend of VOC concentrations since late 2015, as illustrated in **Figure C3-3** and **Figure C3-4.** Wells CO101-PZM, CO103-PZM, and CO104-PZM have shown significant decreases (by at least one order of magnitude) over the past two years.

5.5. SUMMARY AND RECOMMENDATIONS

The AS/SVE system in the "Cove" Area (Cell 3) operated for approximately 4,904 hours in 2018, removing an estimated 151 pounds of hydrocarbons. The concentrations of volatile hydrocarbons in the groundwater have generally decreased over the past few years, a few wells have shown significant decreases (by at least one order of magnitude) over the past two years. Based on this information, the effectiveness of the existing system is extremely poor. The system should be shut down and consideration should be given to modifying the system or utilizing alternate approaches as necessary to remediate groundwater. Continued use of this system or alternate remediation approaches should be evaluated during 2019 depending on long-term groundwater quality requirements also to be defined for the CO in 2019.

Additional vertical and horizontal delineation of VOC concentrations across Cell 3 is proposed in the Former Coke Oven Area Interim Measures Supplemental Investigation Work Plan (ARM, January 2019) to help better determine the extent of potential source area materials around the Cell 3 AS/SVE system and to support the assessment of potential remediation system modifications or changes. The additional delineation is proposed in the form of new temporary piezometers and offshore pore water samples.

6.0 CELL 5

6.1. DESCRIPTION

6.1.1. DPE System

Cell 5 consists of a dual-phase extraction (DPE) system with a low-profile air stripper followed by VGAC for removal and treatment of vapor and dissolved volatile hydrocarbons in the shallow groundwater zone. The system design plans were approved by US EPA in correspondence received on September 10, 2013, and the system began full-scale operation in October 2014. **Figure C5-1** shows the system layout of Cell 5 and locations of the major design components including the dual-phase recovery points, treatment system, groundwater injection wells and groundwater monitoring well locations.

The recovery and re-injection systems include the use of dual-phase (soil vapor and groundwater) recovery wells and six groundwater re-injection wells. Twelve (12) recovery wells were installed along an approximately 500-foot-long stretch between the naphthalene source area and the eastern shoreline along the Turning Basin. Additional details of the DPE system are listed below.

Components (recovery wells):

- Twelve 1.5-inch diameter RWs spaced approximately 42 feet apart
- Installed to 15-17 feet bgs (to bottom of shallow slag)
- Bottom 2 feet of each RW screened with 20-slot screen
- Vapor recovery perforations located between 10-12 ft bgs

Treatment Process:

- Recovered groundwater enters MS knockout tank to separate air and water phases
- Water sent to low profile air stripper
- Off-gas sent to VGAC for capture
- Treated groundwater pumped to six 6-inch diameter re-injection wells screened from 5 to 15 feet (shallow zone)

Specific well construction details for each well are shown on **Table C5-1.**

6.1.2. DNAPL Recovery System

DNAPL product removal began to be extracted from the Cell 5 area in the latter part of the 4th quarter 2015. DNAPL was extracted from several newly constructed extraction wells that have DNAPL sumps below the screened interval. Pneumatic DNAPL skimmer pumps were installed within two specific extraction wells that had shown to produce the greatest amounts of DNAPL: CO123-PZM and CO125-PZM. 55-gallon drums were placed next to CO125-PZM and

CO123-PZM. Product that is removed from the wells is pumped into the drums and taken off-site every 90 days.

6.2. OPERATIONS

6.2.1. DPE System

Table C5-3 shows the quarterly summary of total groundwater treated with the DPE system. A total of 6,543,882 gallons of water were extracted from the DPE wells and treated during 2018. Over the course of the entire year, the average recovery rate for the DPE system was approximately 17,928 gpd (12 gpm).

6.2.2. DNAPL Extraction

Table C5-4 summarizes DNAPL occurrence and recovery observed in monitoring wells during 2018 as well as cumulative DNAPL recovered since the beginning of the interim measure. As shown on Table C5-4, approximately 370 gallons of DNAPL were recovered in 2018.

6.3. MONITORING RESULTS

Groundwater samples were collected from the following shallow zone monitoring.

- CO23-PZM008
- CO24-PZM007
- CO26-PZM007
- CO55-PZM000
- CO56-PZP001
- CO57-PZP002
- CO58-PZM001
- CO59-PZP002
- CO60-PZP001

Depth-to-water level measurements were also recorded for each of the groundwater wells in order to calculate static groundwater elevations. The resulting groundwater elevations were used to create groundwater contour maps for the shallow zone groundwater. The depth-to-water level measurements and groundwater elevations are summarized in **Table C5-2.** Groundwater elevation contour maps for each quarter are included as **Figures C5-3 to C5-6.**

Analytical results for groundwater samples collected in 2018 are shown in **Table C5-5.** Concentrations of naphthalene detected in groundwater samples collected in each quarter are displayed on **Figures C5-7 through C5-10.** Time-series graphs of total VOCs collected in groundwater samples are included as **Figures C5-11** and **C5-12.**

6.4. EVALUATION OF EFFECTIVENESS

As summarized on Table C5-4 and Figure C5-2, the Cell 5 groundwater and DNAPL recovery systems removed approximately 211 and 3,551 pounds of hydrocarbons, respectively. This is a total of approximately 3,762 pounds of hydrocarbons removed during 2018. The groundwater monitoring data indicate that naphthalene is the most prevalent hydrocarbon constituent in groundwater at Cell 5. As shown on **Figure C5-11,** VOC concentrations in CO56-PZP001 have generally decreased over the past two years. As shown on **Figure C5-12,** some wells have exhibited temporary upward spikes in the total VOCs, but current concentrations of these wells are generally similar to the concentrations initially measured in 2014. As shown on **Figure C5-13,** VOC concentrations in CO55-PZM000 and CO57-PZP002 have significantly decreased from concentrations initially measured in 2014.

6.5. SUMMARY AND RECOMMENDATIONS

Cell 5 includes a DPE system and a DNAPL recovery system for the shallow zone groundwater in the "Turning Basin" side of the former Coke Oven Area. These systems were operated for the majority of the year, resulting in the total removal of approximately 3,762 pounds of hydrocarbons from the Cell 5 area, with the significant majority coming from the DNAPL recovery system. Since 2014, total VOC concentrations in some shallow zone wells have demonstrated decreases while others have demonstrated little change from initial concentrations, despite fluctuations.

Based on the poor effectiveness of the DPE system, it should be shut down and modifications to the current system and/or its operation should be considered. Continued use of this system, as well as the DNAPL Extraction system, should be evaluated during 2019 depending on long-term groundwater quality requirements to be defined for the CO in 2019.

Additional vertical and horizontal delineation across Cell 5 to the north, east, and west of the existing extracting wells is proposed in the Former Coke Oven Area Interim Measures Supplemental Investigation Work Plan (ARM, January 2019). This work is planned to define the remediation process and/or approaches necessary to mitigate impacts to surface water and sediment pore water. The additional delineation is proposed in the form of new temporary piezometers and offshore pore water samples.

7.0 CELL 6

7.1. DESCRIPTION

The Cell 6 LNAPL Multi-Phase Extraction (MPE) monitoring and recovery system at the Former Benzol Processing Area was constructed and put into operation in October 2016; manual skimming and bailing of product was started in July 2010. The MPE system separates three extracted phases as follows: LNAPL is skimmed and contained in a 5,000 gallon holding tank, vapor is destroyed via an electric CATOX unit, and water is reinjected via reinjection wells. The layout consists of 53 extraction wells, each individually plumbed with the ability to connect directly to one of the 43 vacuum lines extending from the back of the system container.

7.2. OPERATIONS

LNAPL recovery volumes were recorded during the year and recovered LNAPL was removed from the site every 90 days. **Table C6-1** summarizes the amount of LNAPL recovered prior to the MPE being put into place, the amount of LNAPL recovered by the MPE system during 2018, and total LNAPL recovered over the entire historical operational period. Following the third quarter of 2018, the whole MPE system was cleaned out, including all settling tanks which had accumulated oil-impacted water. When the cleaned-out material was taken off site for disposal, the total volume of combined oil, water, and sludge was recorded on the waste manifest. However, the on-site technician estimated that about 1,000 gallons of the total was actual LNAPL.

7.3. EVALUATION OF EFFECTIVENESS

Based on the LNAPL recovery amounts presented in **Table C6-1** and graphically shown on **Figure C6-2**, the Cell 6 extraction system removed approximately 11,000 pounds of LNAPL during 2018. **Figure C6-3 through Figure C6-6** show the average product thicknesses in the Cell 6 extraction wells for each of the four quarters of 2018. When comparing the average NAPL thicknesses in extraction wells from the fourth quarter 2017 to fourth quarter 2018, NAPL thicknesses exhibited overall decreases in the Cell 6 source area. This change over time is displayed on **Figure C6-7.**

7.4. SUMMARY AND RECOMMENDATIONS

Cell 6 consists of an LNAPL Multi-Phase Extraction (MPE) monitoring and recovery system at the Former Benzol Processing Area, along with manual bailing and skimming. The extraction system, including manual bailing and skimming, removed an estimated 11,000 pounds of LNAPL during 2018, with a cumulative removal amount of approximately 146,882 pounds since LNAPL recovery was started in Cell 6. It is recommended that this system continue to be operated to facilitate LNAPL removal. LNAPL thickness will continue to be measured throughout 2019. While the MPE system is continuing to remove LNAPL from the subsurface with reasonable efficiency, potential upgrades to the system will be evaluated in 2019.

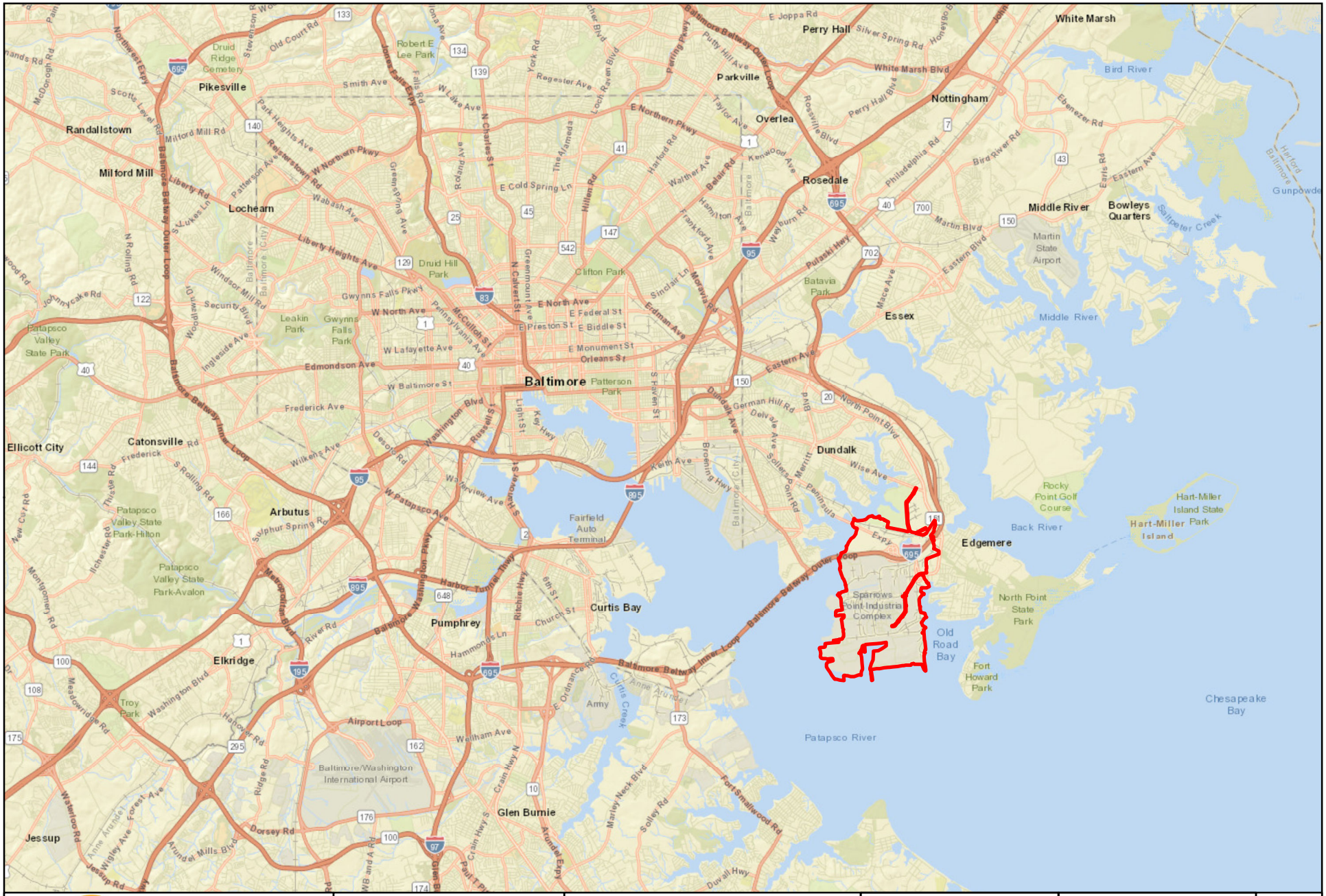
8.0 SUMMARY AND CONCLUSIONS

The IMs at the former CO area were operated during 2018 in accordance with the operating plans. Based on the estimated hydrocarbon removal amounts from the remedial activities at Cells 1, 2, 3, 5, and 6, a total of approximately 18,700 pounds of hydrocarbons were removed from this area in 2018.

Based on the results of monitoring data collected at the CO during 2018, it is recommended that the frequency of groundwater monitoring be reduced from quarterly sample collection to semi-annual sample collection. Further recommendations include shutting down the Cell 3 AS/SVE system and the Cell 5 DPE system. Consideration should be given to improving these two systems or utilizing alternate approaches as necessary to remediate groundwater. Continued use of the systems or alternate remediation approaches should be evaluated during 2019 depending on long-term groundwater quality requirements to be defined for the CO in 2019. While the MPE system in Cell 6 is continuing to remove LNAPL from the subsurface with reasonable efficiency, potential upgrades to the system will be evaluated in 2019.

Additional vertical and horizontal delineation in Cells 2, 3 and 5 is proposed in the Former Coke Oven Area Interim Measures Supplemental Investigation Work Plan (ARM, January 2019) to determine if modifications to the existing systems are warranted. New temporary piezometers will be installed in these cells in strategic locations to further delineate the extent of impacts in the subsurface, while offshore pore water samples will be analyzed to delineate the extent of impacts in offshore sediment.

FIGURES



Tradepoint Atlantic
Regional Site View

February 2, 2017

EnviroAnalytics Group	Tradepoint Atlantic
Area A: Project 150298M Area B: Project 150300M	Baltimore County, MD

Figure 1

\\armgroup.lcl\CorpData\Projects\EnviroAnalytics Group\150298M EAG_Sparrows Point Area A\GIS\Site-wide Regional Figures.mxd



N

EnviroAnalytics Group

1 inch = 500 feet

0 250 500 Feet

Former Coke Oven Area Interim Measures Cell Locations

Date: 12/28/2018

Figure 2

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 1 System Layout
AS/SVE
Date: 12/27/2018

Figure C1-1

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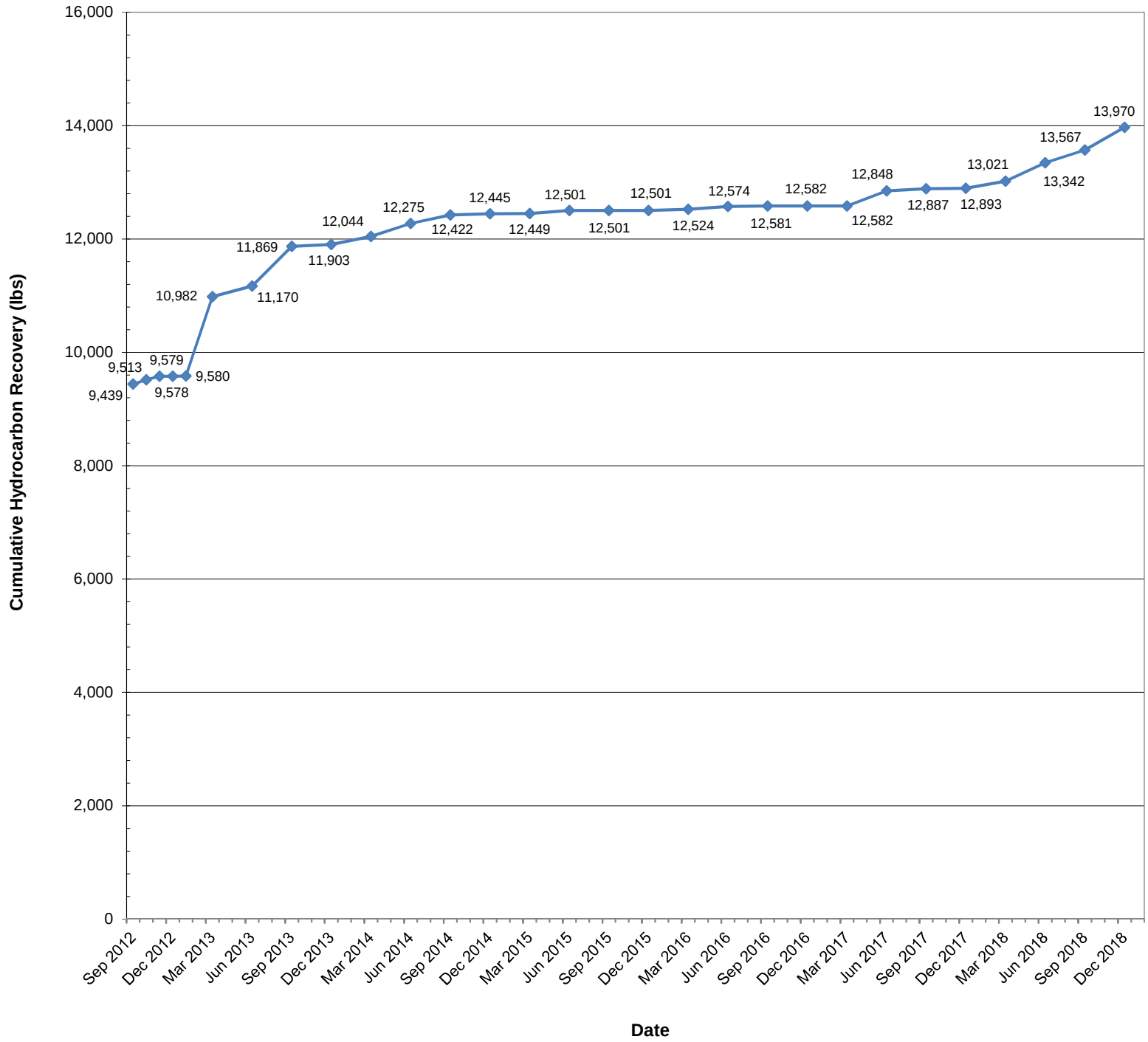


LEGEND

Cell 1

EnviroAnalytics Group

Environmental Engineers

Project

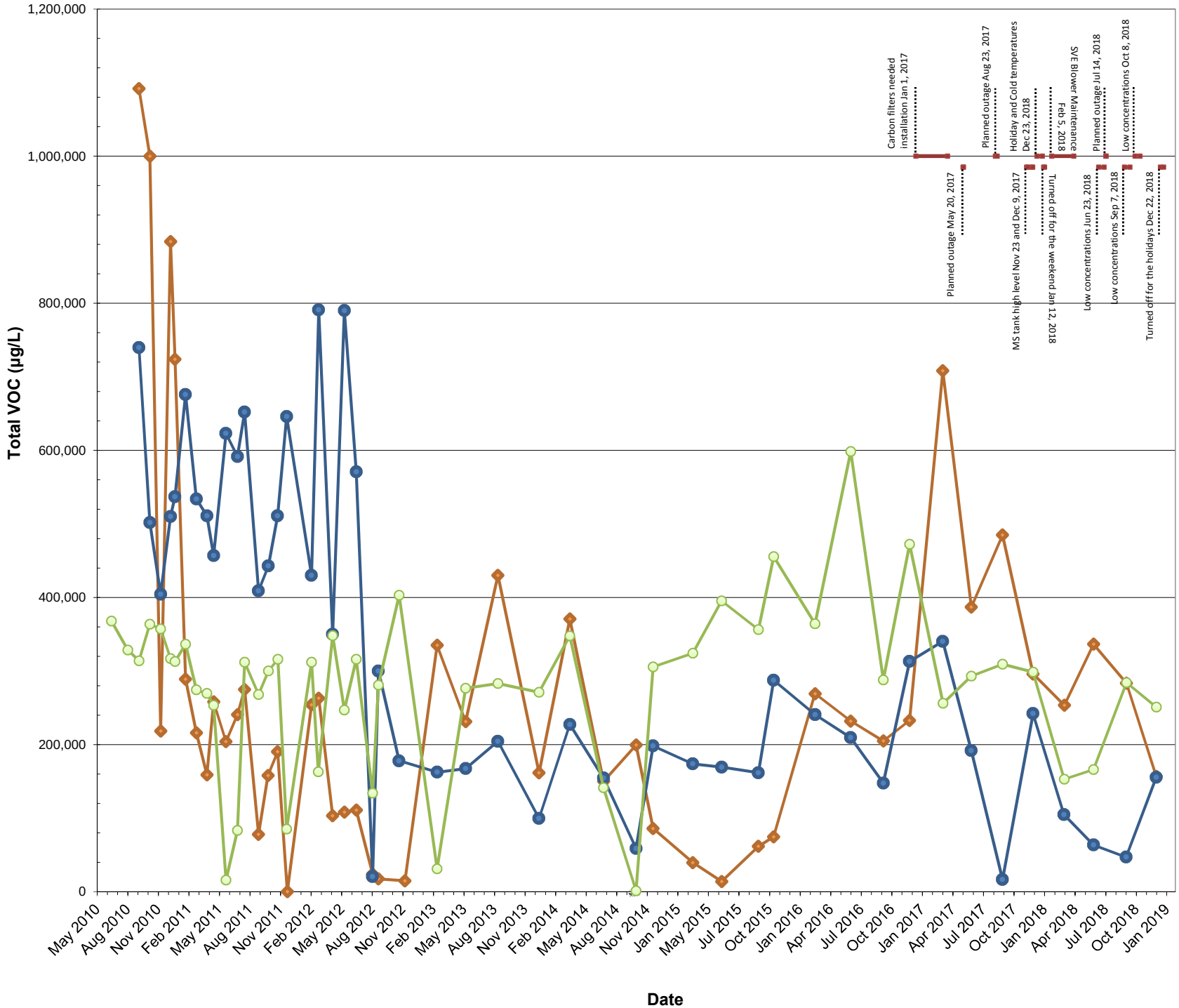
Sparrow Point Terminal, LLC
Baltimore, Maryland

**CUMULATIVE SUMMARY OF ESTIMATED HYDROCARBON RECOVERY
FORMER COKE OVEN AREA
CELL 1 INTERIM REMEDIAL MEASURES**

Project Number	File Number
170674M	

Date	Figure
January 9, 2019	C1-2

PE/RG	PM	DR



LEGEND

- CO18-PZM006
- CO02-PZM006
- CO93-PZMxxx
- System down

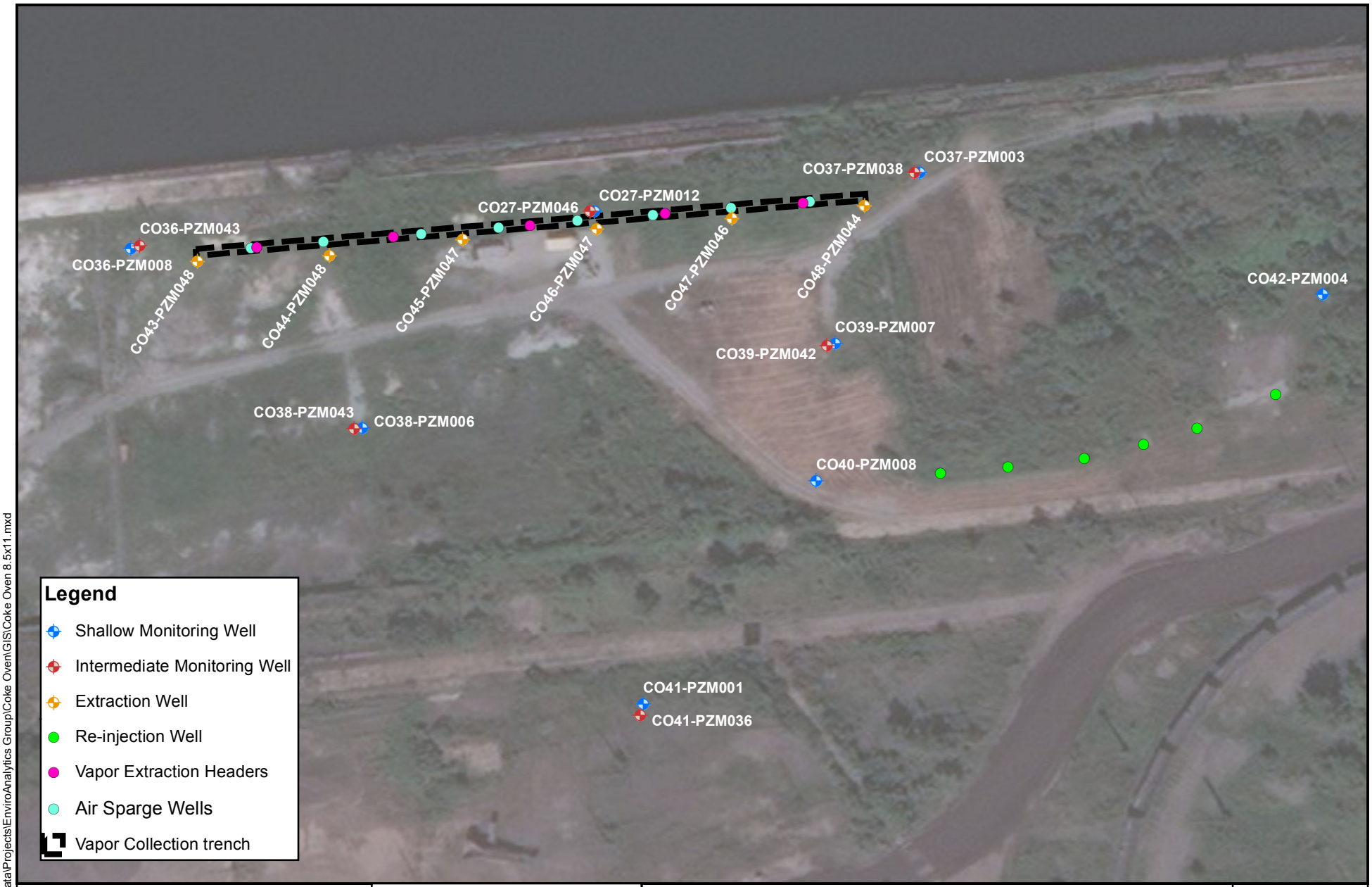
EnviroAnalytics Group
Environmental Engineers

Project
Tradepoint Atlantic
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH
CELL 1: PROTOTYPE AS/SVE SYSTEM
FORMER BENZOL PROCESSING AREA

Date	Figure
January 9, 2019	C1-3

PE/RG	PM	DR



N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 System Layout
AS/SVE and GW P&T
Date: 12/27/2018

Figure C2-1

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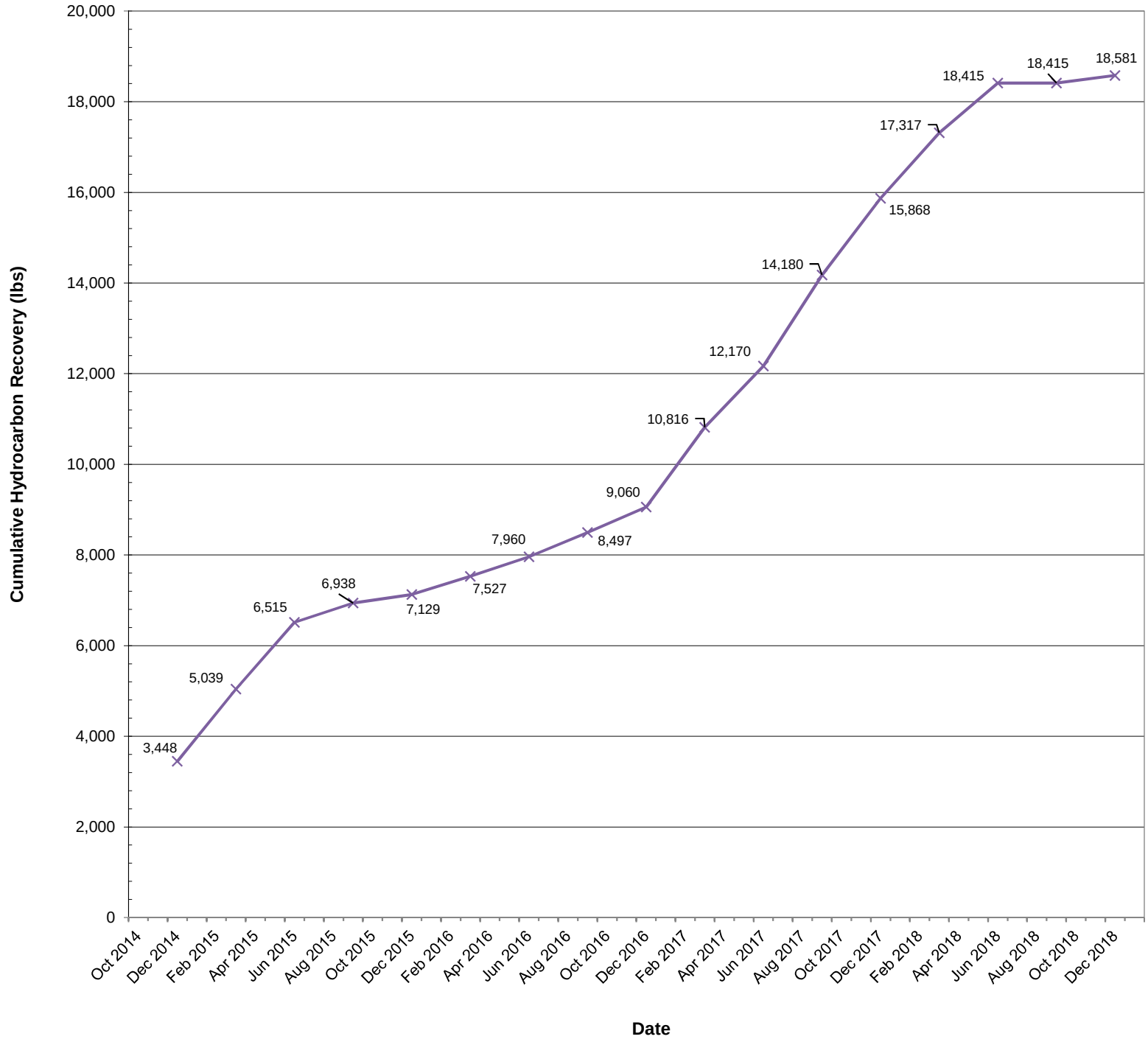

LEGEND

Cell 2

EnviroAnalytics Group
Environmental Engineers

Project
Sparrow Point Terminal, LLC
Baltimore, Maryland

CUMULATIVE SUMMARY OF ESTIMATED HYDROCARBON RECOVERY FORMER COKE OVEN AREA CELL 2 INTERIM REMEDIAL MEASURES

Project Number	File Number
170674M	

Date	Figure
January 7, 2019	C2-2

PE/RG	PM	DR



N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Groundwater Elevation
Shallow Zone

Date: 1/3/2019

Figure C2-3

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Groundwater Elevation
Shallow Zone
Date: 1/3/2019

Figure C2-4

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Groundwater Elevation
Shallow Zone
Date: 1/3/2019

Figure C2-5

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Groundwater Elevation
Shallow Zone

Date: 1/3/2019

Figure C2-6

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Groundwater Elevation
Intermediate Zone
Date: 1/3/2019

Figure C2-7

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Groundwater Elevation
Intermediate Zone
Date: 1/10/2019

Figure C2-8

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Groundwater Elevation
Intermediate Zone
Date: 1/3/2019

Figure C2-9

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Groundwater Elevation
Intermediate Zone
Date: 1/3/2019

Figure C2-10

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Benzene Concentrations
Shallow Zone
Date: 1/29/2019

Figure C2-11

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N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Benzene Concentrations
Shallow Zone
Date: 1/29/2019

Figure C2-12

\\armgroup.lcl\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Benzene Concentrations
Shallow Zone
Date: 1/29/2019

Figure C2-13

\\armgroup.lcl\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Benzene Concentrations
Shallow Zone
Date: 1/29/2019

Figure C2-14

\\armgroup.lcl\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q1 Benzene Concentrations
Intermediate Zone
Date: 1/29/2019

Figure C2-15

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EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q2 Benzene Concentrations
Intermediate Zone
Date: 1/29/2019

Figure C2-16

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N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q3 Benzene Concentrations
Intermediate Zone
Date: 1/29/2019

Figure C2-17

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 2 Q4 Benzene Concentrations
Intermediate Zone
Date: 1/29/2019

Figure C2-18

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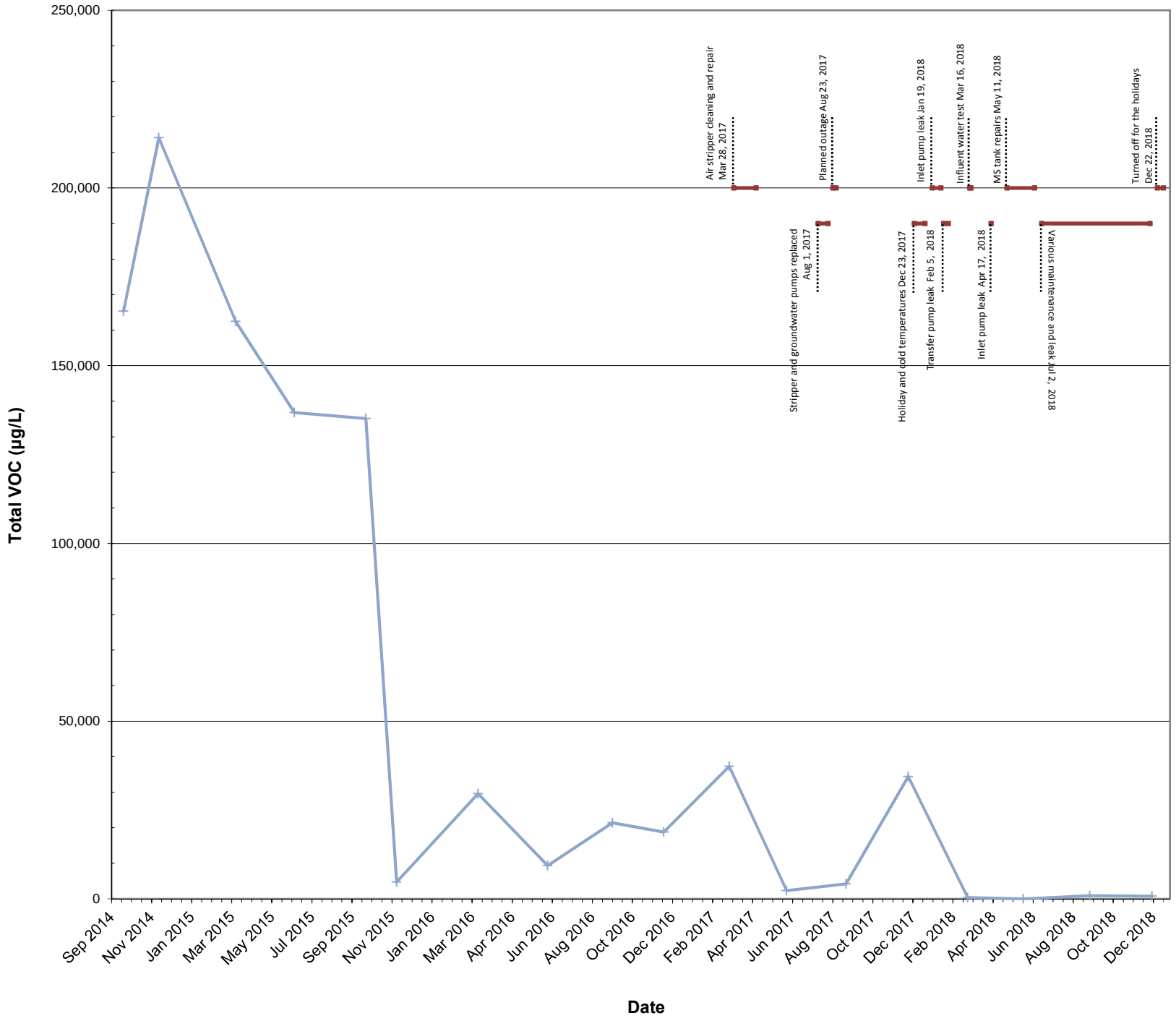

LEGEND

CO41-PZM001

System down

EnviroAnalytics Group

Environmental Engineers

Project

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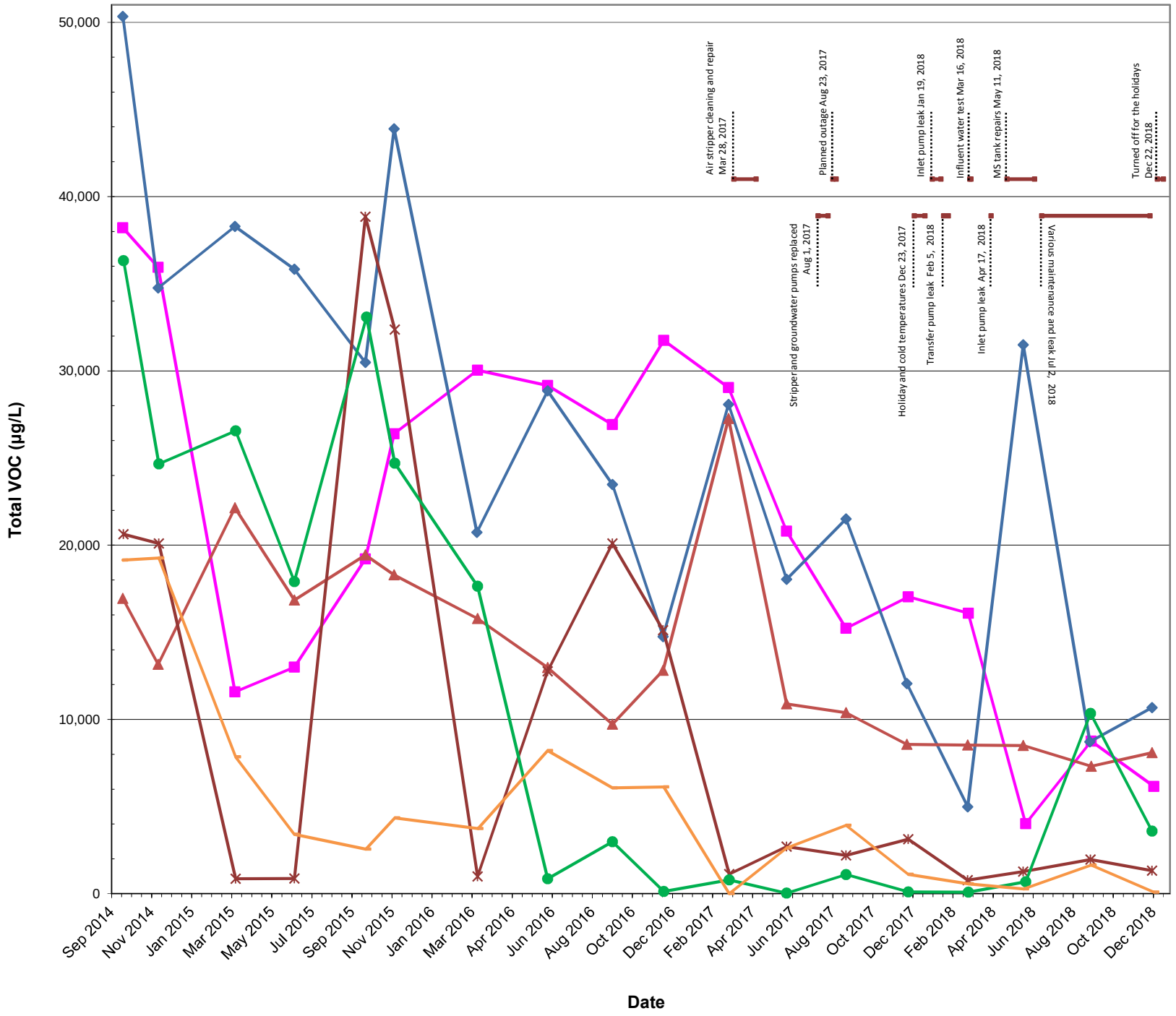
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH CELL 2: GROUNDWATER PUMP AND TREAT SYSTEM SHALLOW ZONE

Date	Figure
January 9, 2019	C2-19

PE/RG	PM	DR



LEGEND

- CO27-PZM012
- CO36-PZM008
- CO38-PZM006
- CO39-PZM007
- CO40-PZM008
- CO42-PZM004
- System down

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Environmental Engineers

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Tradepoint Atlantic
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH CELL 2: GROUNDWATER PUMP AND TREAT SYSTEM SHALLOW ZONE

Date
January 9, 2019

Figure
C2-**20**

PE/RG	PM	DR



LEGEND

- CO27-PZM046
- CO41-PZM036
- System down

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Baltimore, Maryland

**MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH
CELL 2: GROUNDWATER PUMP AND TREAT SYSTEM
INTERMEDIATE ZONE**

Date	Figure
January 9, 2019	C2-**21**

PE/RG	PM	DR



LEGEND

- CO36-PZM043
- CO37-PZM038
- CO38-PZM043
- CO39-PZM042
- System down

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Environmental Engineers

Project
Tradepoint Atlantic
Baltimore, Maryland

**MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH
CELL 2: GROUNDWATER PUMP AND TREAT SYSTEM
INTERMEDIATE ZONE**

Project Number	
190143M	
Date: January 29, 2019	Figure: C2-22
PE/RG	PM / DR



N

EnviroAnalytics Group

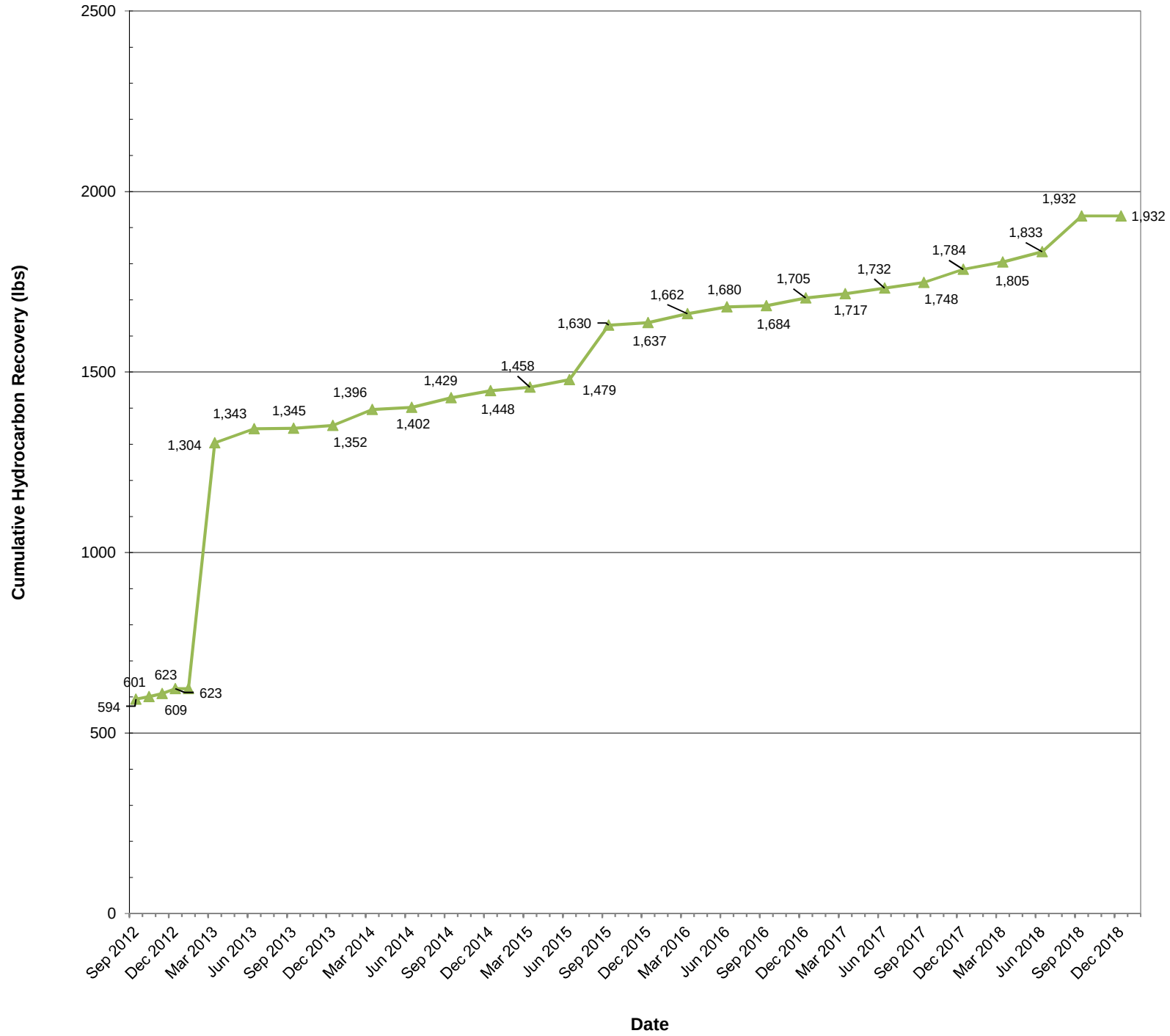
1 inch = 100 feet

0 50 100 Feet

Former Coke Oven Area
Cell 3 System Layout
AS/SVE
Date: 12/27/2018

Figure C3-1

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



LEGEND

Cell 3

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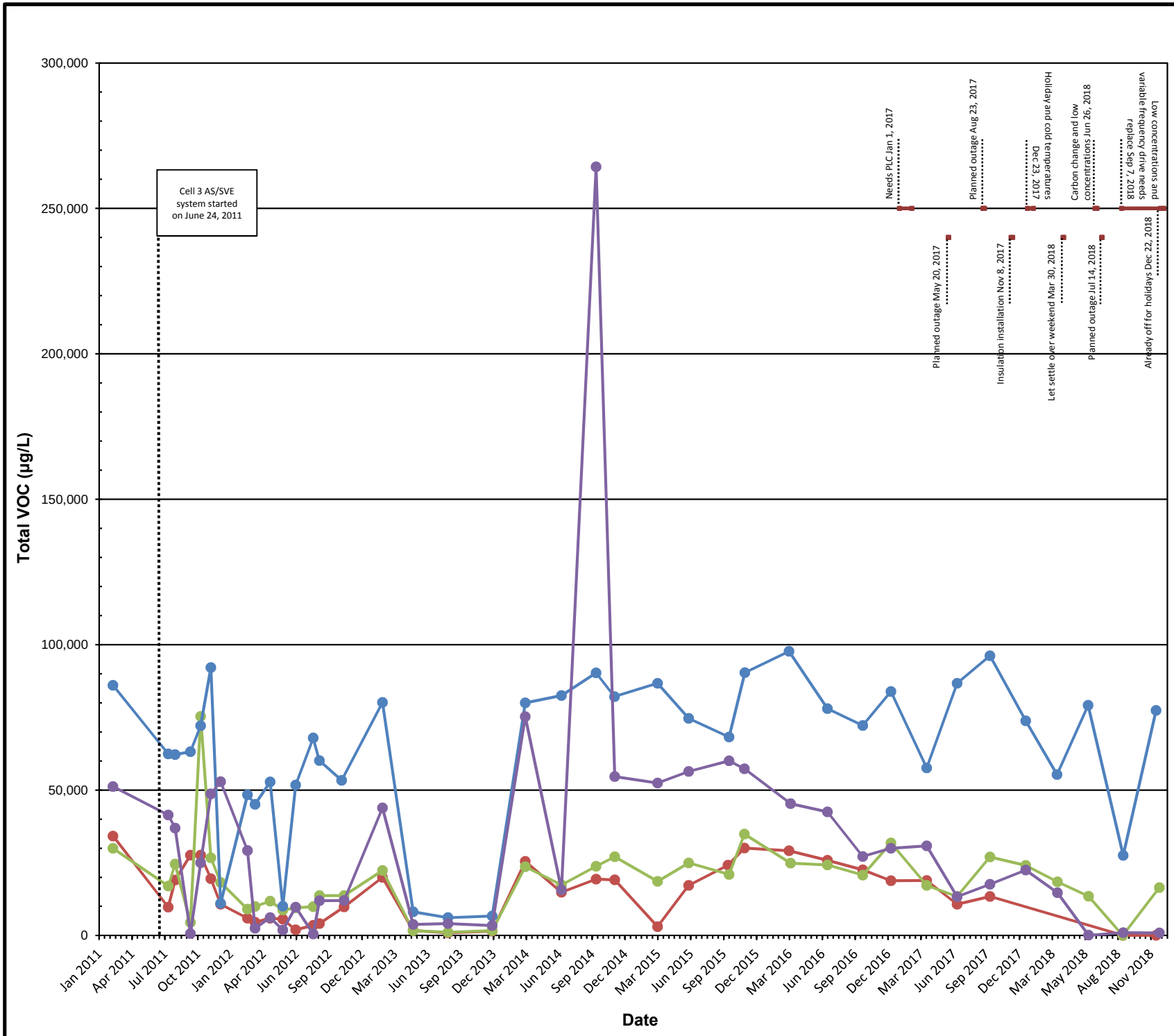
Project
Sparrow Point Terminal, LLC
Baltimore, Maryland

CUMULATIVE SUMMARY OF ESTIMATED HYDROCARBON RECOVERY
FORMER COKE OVEN AREA
CELL 3 INTERIM REMEDIAL MEASURES

Project Number	File Number
170674M	

Date	Figure
January 9, 2019	C3-2

PE/RG	PM	DR



LEGEND

- CO101-PZMxxx
- CO102-PZMxxx
- CO30-PZM015
- CO103-PZMxxx
- System down

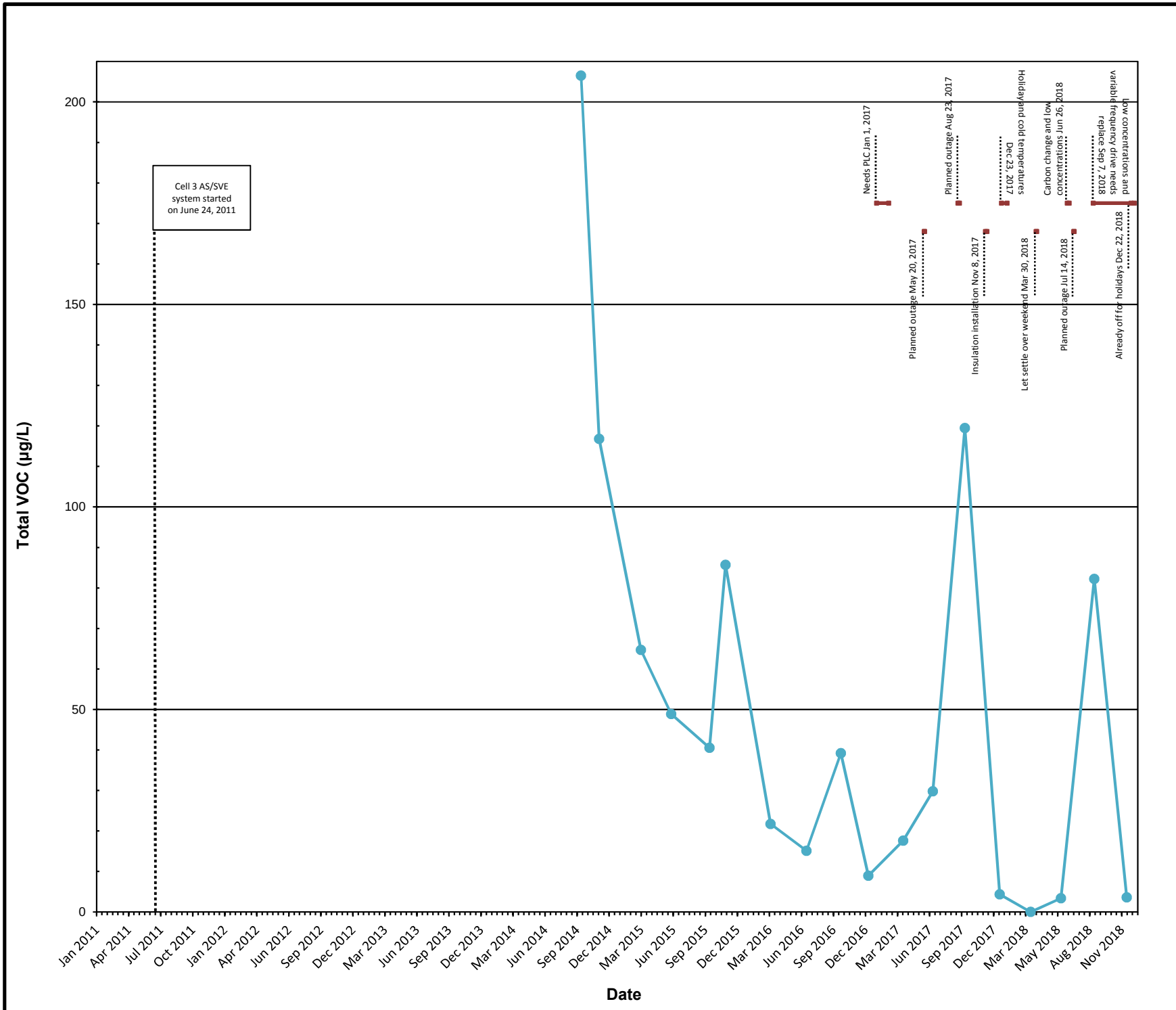
EnviroAnalytics Group
Environmental Engineers

Project
Tradepoint Atlantic
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH CELL 3: PROTOTYPE AS/SVE SYSTEM IN THE COVE AREA

Date	Figure
January 9, 2019	C3-3

PE/RG	PM	DR



LEGEND

CO104-PZMxxx

System down

EnviroAnalytics Group

Environmental Engineers

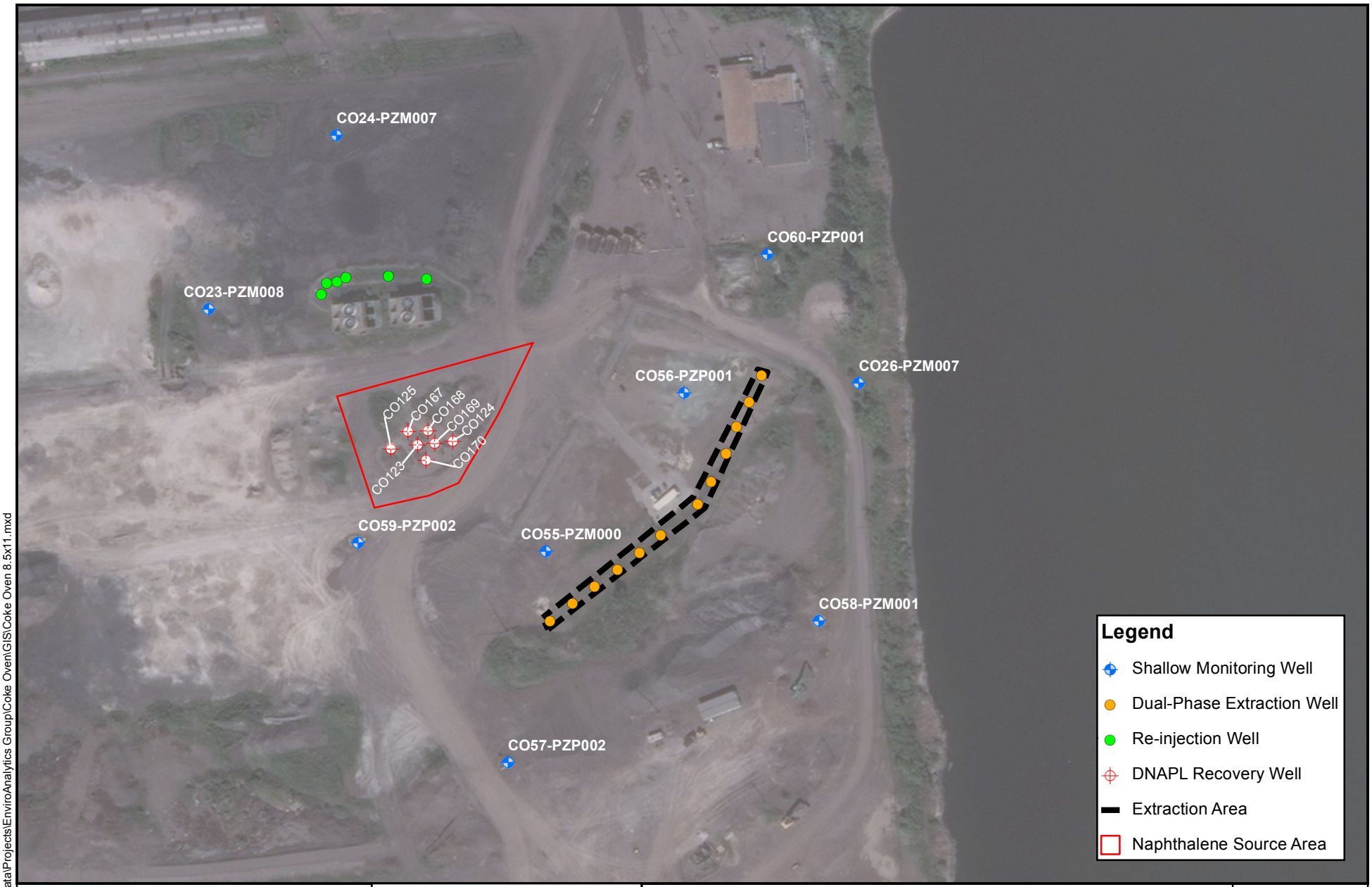
Project

Tradepoint Atlantic
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH CELL 3: PROTOTYPE AS/SVE SYSTEM IN THE COVE AREA

Date	Figure
January 9, 2019	C3-4

PE/RG	PM	DR



N

EnviroAnalytics Group

1 inch = 200 feet

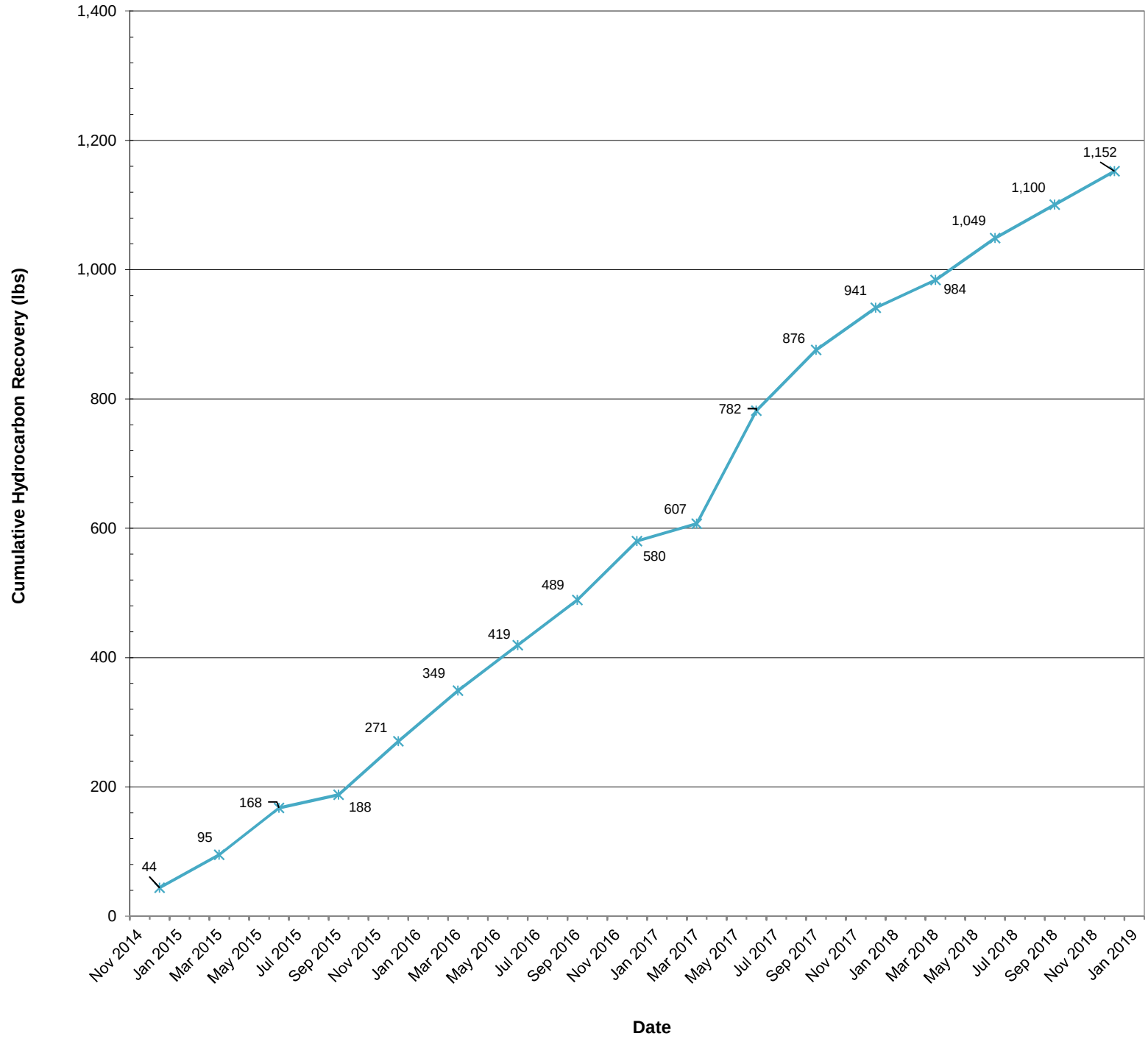
0 100 200 Feet

Former Coke Oven Area
Cell 5 System Layout
DPE System and DNAPL Recovery Pumps

Date: 12/27/2018

Figure C5-1

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



LEGEND

Cell 5

EnviroAnalytics Group
Environmental Engineers

Project
Sparrow Point Terminal, LLC
Baltimore, Maryland

CUMULATIVE SUMMARY OF ESTIMATED HYDROCARBON RECOVERY
FORMER COKE OVEN AREA
CELL 5 INTERIM REMEDIAL MEASURES

Project Number	File Number
170674M	

Date	Figure
January 10, 2019	C5-2

PE/RG	PM	DR



N

EnviroAnalytics Group

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q1 Groundwater Elevation
Shallow Zone
Date: 1/3/2019

Figure C5-3

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N

EnviroAnalytics Group

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q2 Groundwater Elevation
Shallow Zone
Date: 1/3/2019

Figure C5-4

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N

EnviroAnalytics Group

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q3 Groundwater Elevation
Shallow Zone

Date: 1/10/2019

Figure C5-5

\\armgroup.lcl\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q4 Groundwater Elevation
Shallow Zone

Date: 1/3/2019

Figure C5-6

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q1 Naphthalene Concentrations
Shallow Zone

Date: 12/28/2018

Figure C5-7

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q2 Naphthalene Concentrations
Shallow Zone

Date: 12/28/2018

Figure C5-8

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



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N

EnviroAnalytics Group

1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q3 Naphthalene Concentrations
Shallow Zone

Date: 12/28/2018

Figure C5-9



N

EnviroAnalytics Group

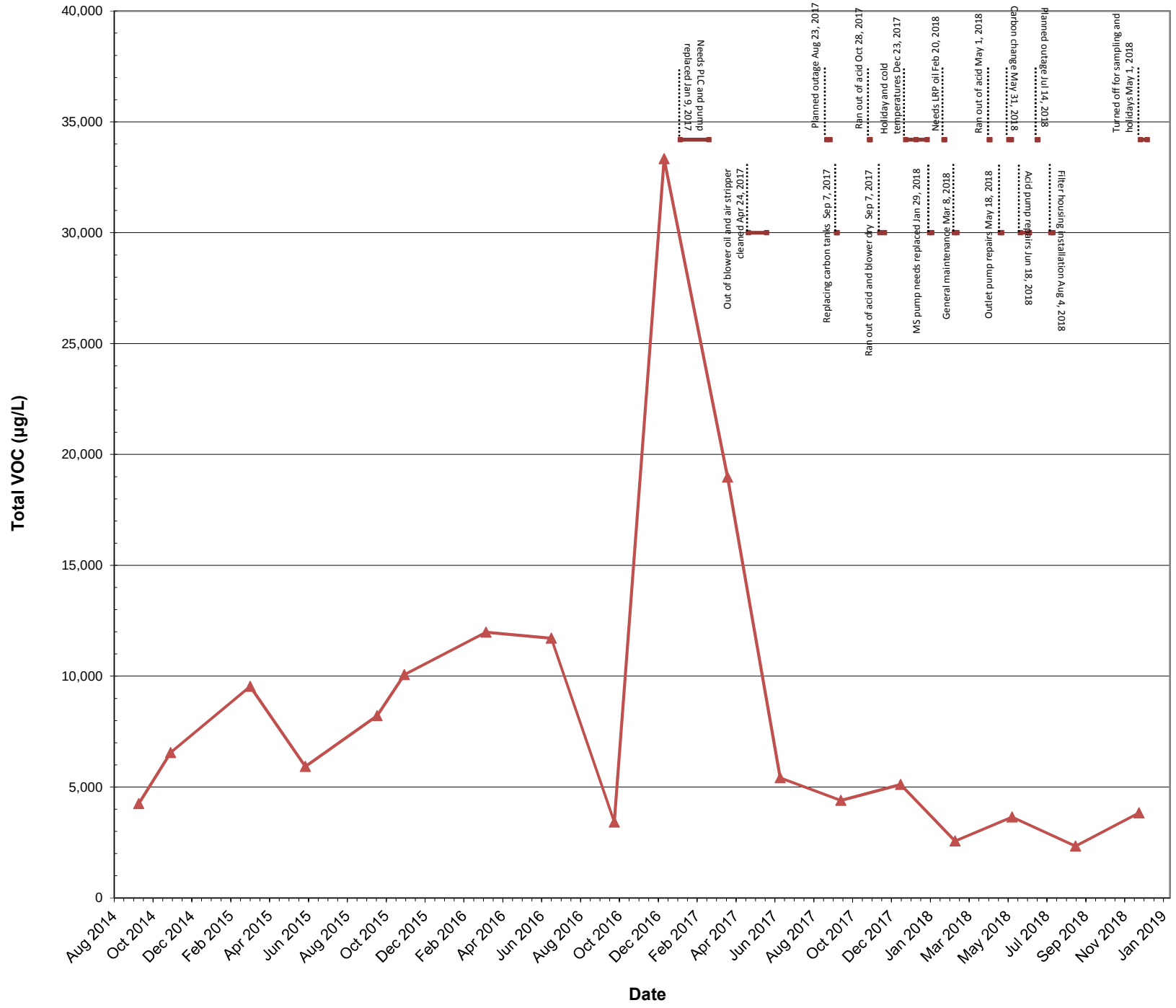
1 inch = 200 feet

0 100 200 Feet

Former Coke Oven Area
Cell 5 Q4 Naphthalene Concentrations
Shallow Zone
Date: 1/4/2019

Figure C5-10

\\armgroup.lcl\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



LEGEND

- CO56-PZP001
- System down

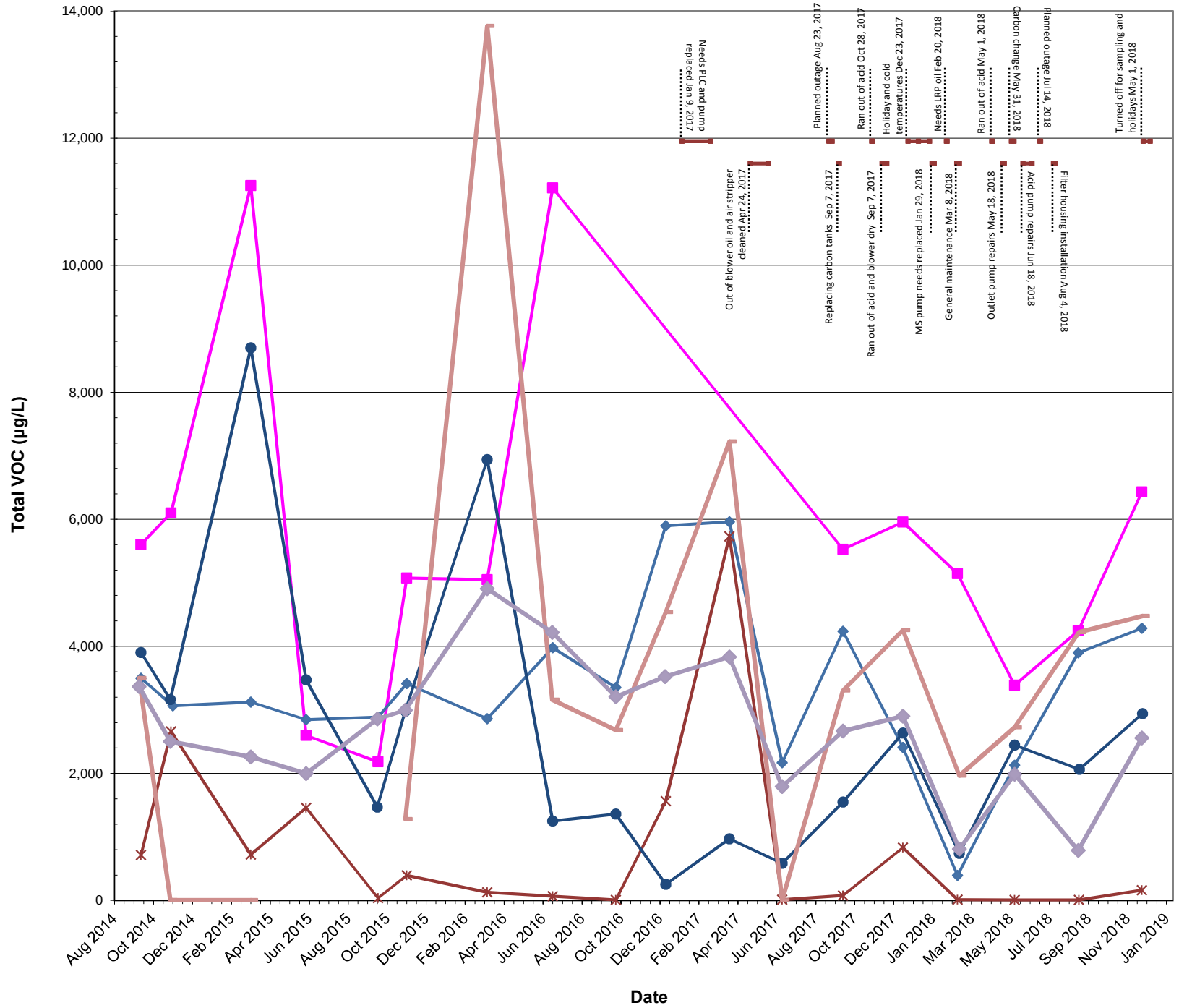
EnviroAnalytics Group
Environmental Engineers

Project
Tradepoint Atlantic
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH
CELL 5: DPE GROUNDWATER PUMP AND TREAT SYSTEM

Date	Figure
January 9, 2019	C5-11

PE/RG	PM	DR



LEGEND

- CO23-PZM008
- CO24-PZM007
- CO59-PZP002
- CO60-PZP001
- System down
- CO26-PZM007
- CO58-PZM001

EnviroAnalytics Group
Environmental Engineers

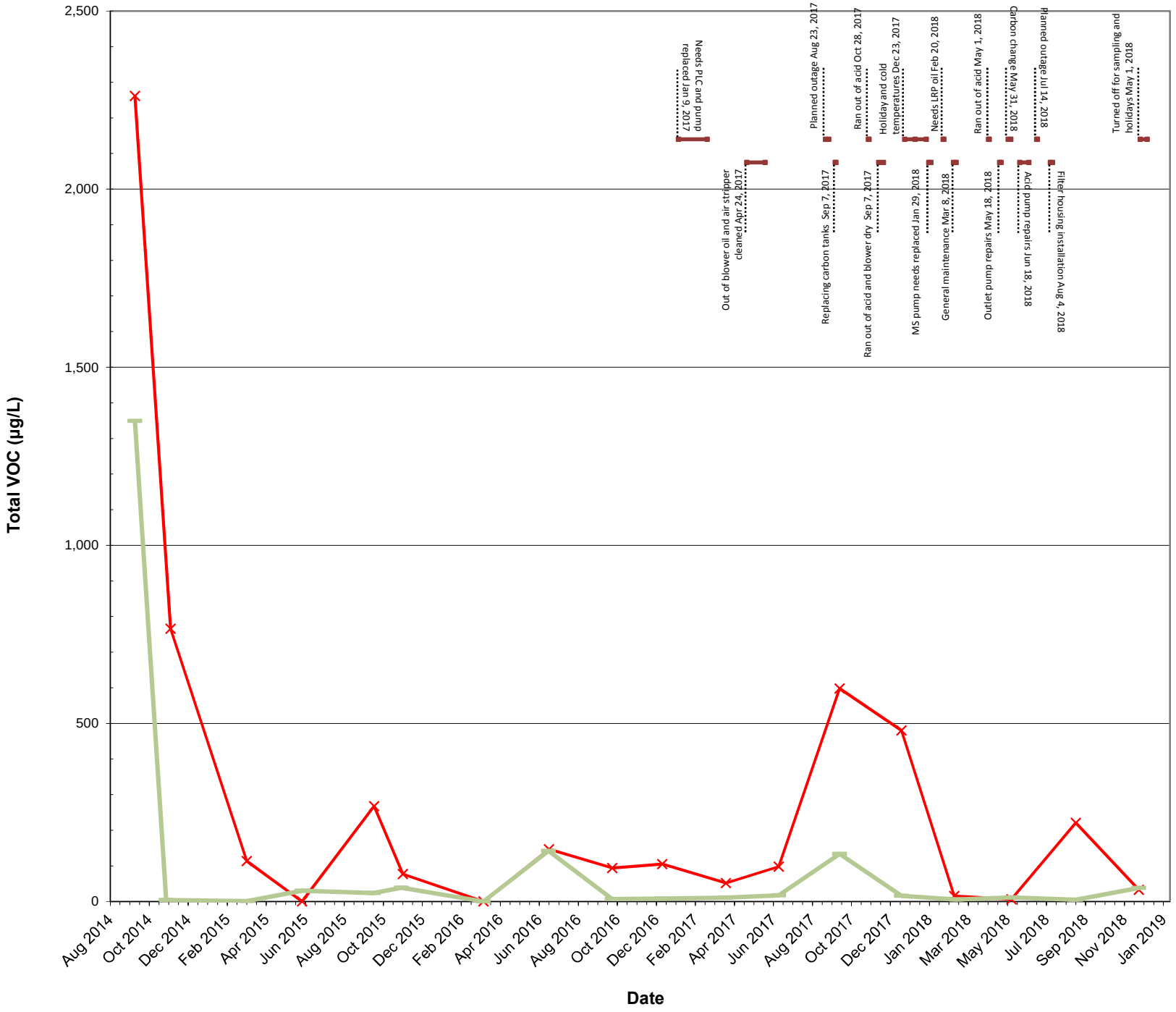
Project
Tradepoint Atlantic
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH CELL 5: DPE GROUNDWATER PUMP AND TREAT SYSTEM

Date
January 9, 2019

Figure
C5-12

PE/RG	PM	DR



LEGEND

- CO55-PZM000
- System down
- CO57-PZP002

EnviroAnalytics Group
Environmental Engineers

Project
Tradepoint Atlantic
Baltimore, Maryland

MEASURED GROUNDWATER VOC CONCENTRATION BY MONTH
CELL 5: DPE GROUNDWATER PUMP AND TREAT SYSTEM

Date	Figure
January 9, 2019	C5-13

PE/RG	PM	DR



N

EnviroAnalytics Group

1 inch = 80 feet

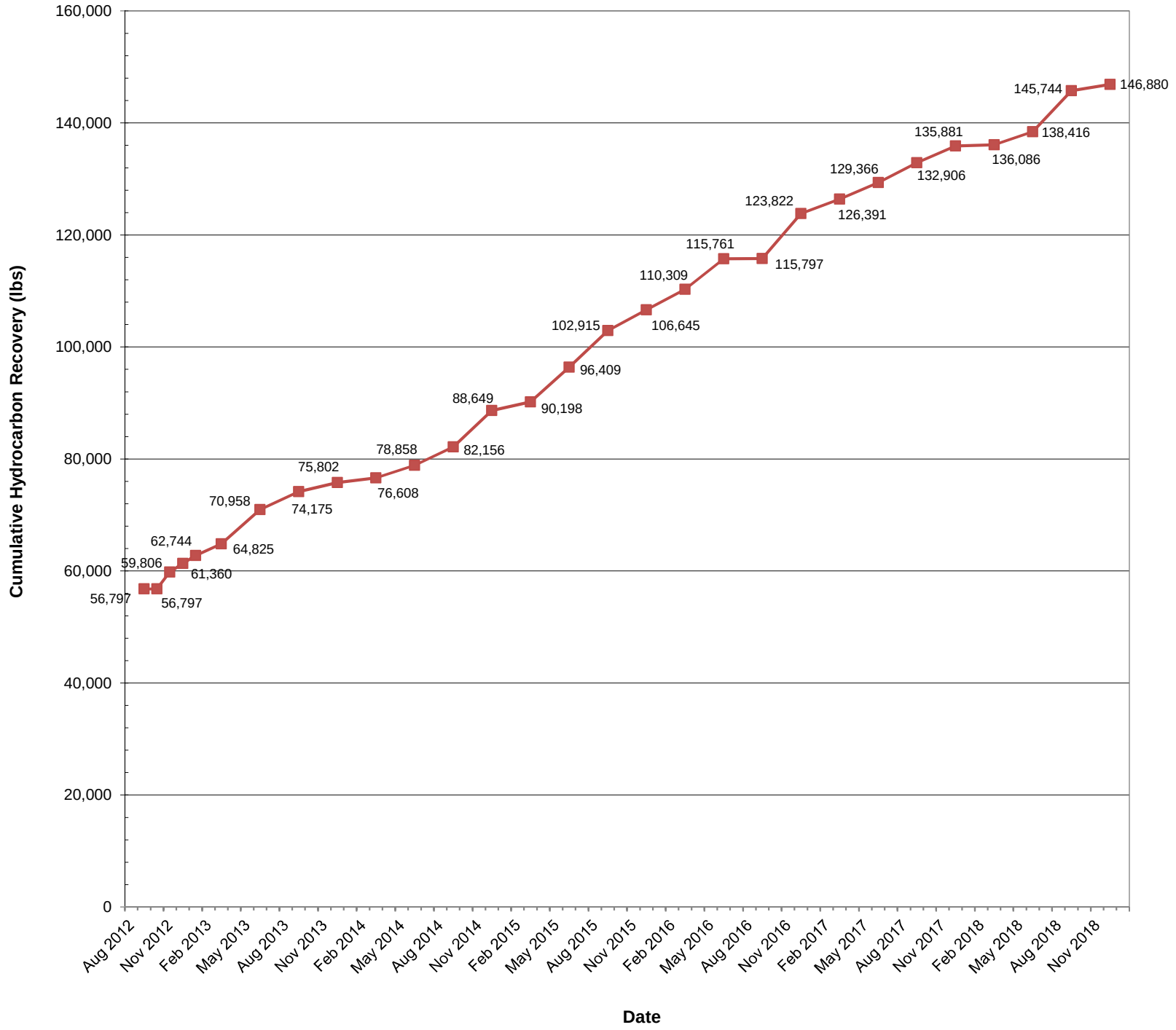
0 40 80 Feet

Former Coke Oven Area
Cell 6 System Layout

Date: 12/27/2018

Figure C6-1

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



LEGEND

Cell 6

EnviroAnalytics Group
Environmental Engineers

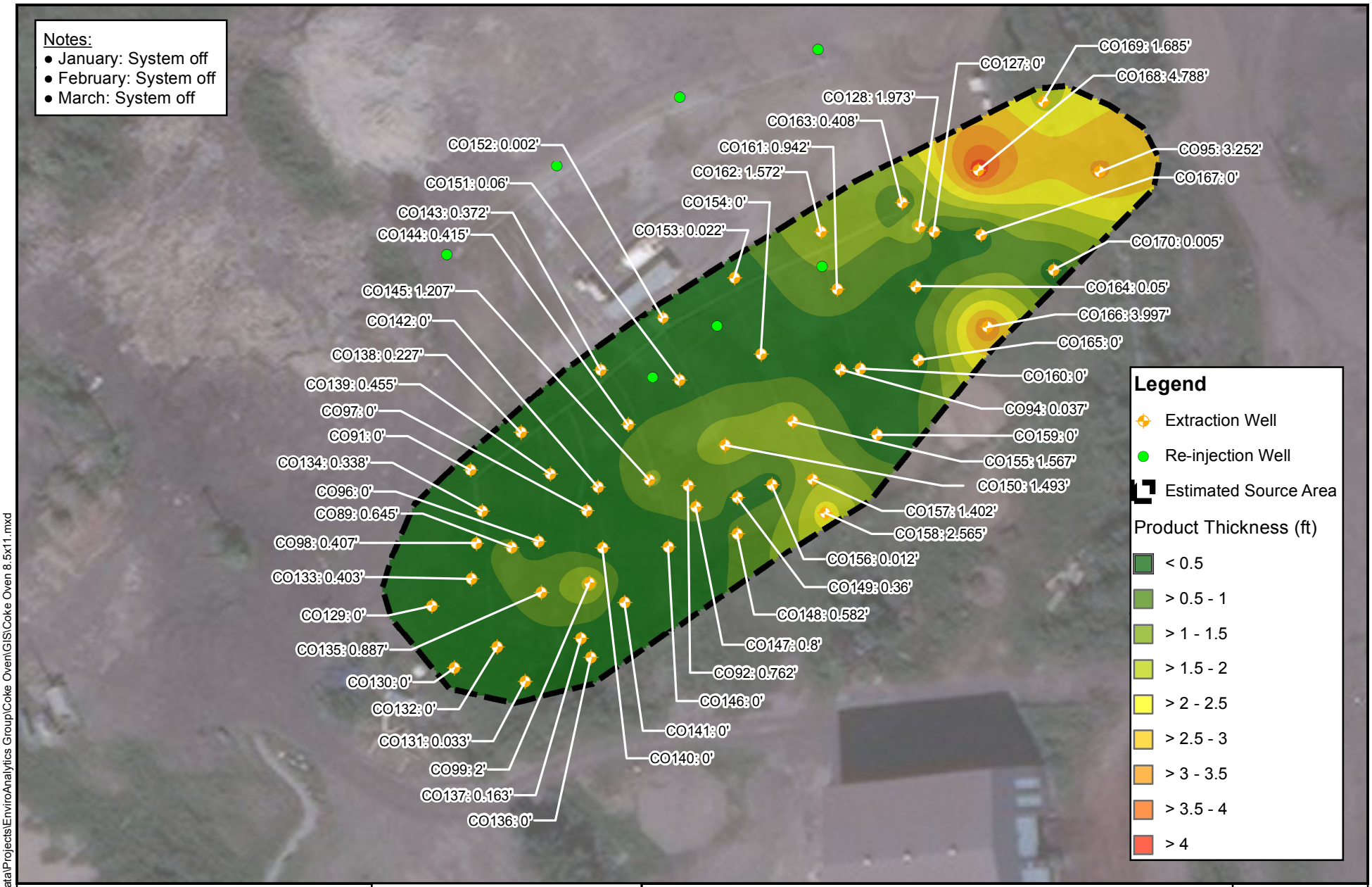
Project
Sparrow Point Terminal, LLC
Baltimore, Maryland

CUMULATIVE SUMMARY OF ESTIMATED HYDROCARBON RECOVERY
FORMER COKE OVEN AREA
CELL 6 INTERIM REMEDIAL MEASURES

Project Number	File Number
170674M	

Date	Figure
January 10, 2019	C6-2

PE/RG	PM	DR



N

EnviroAnalytics Group

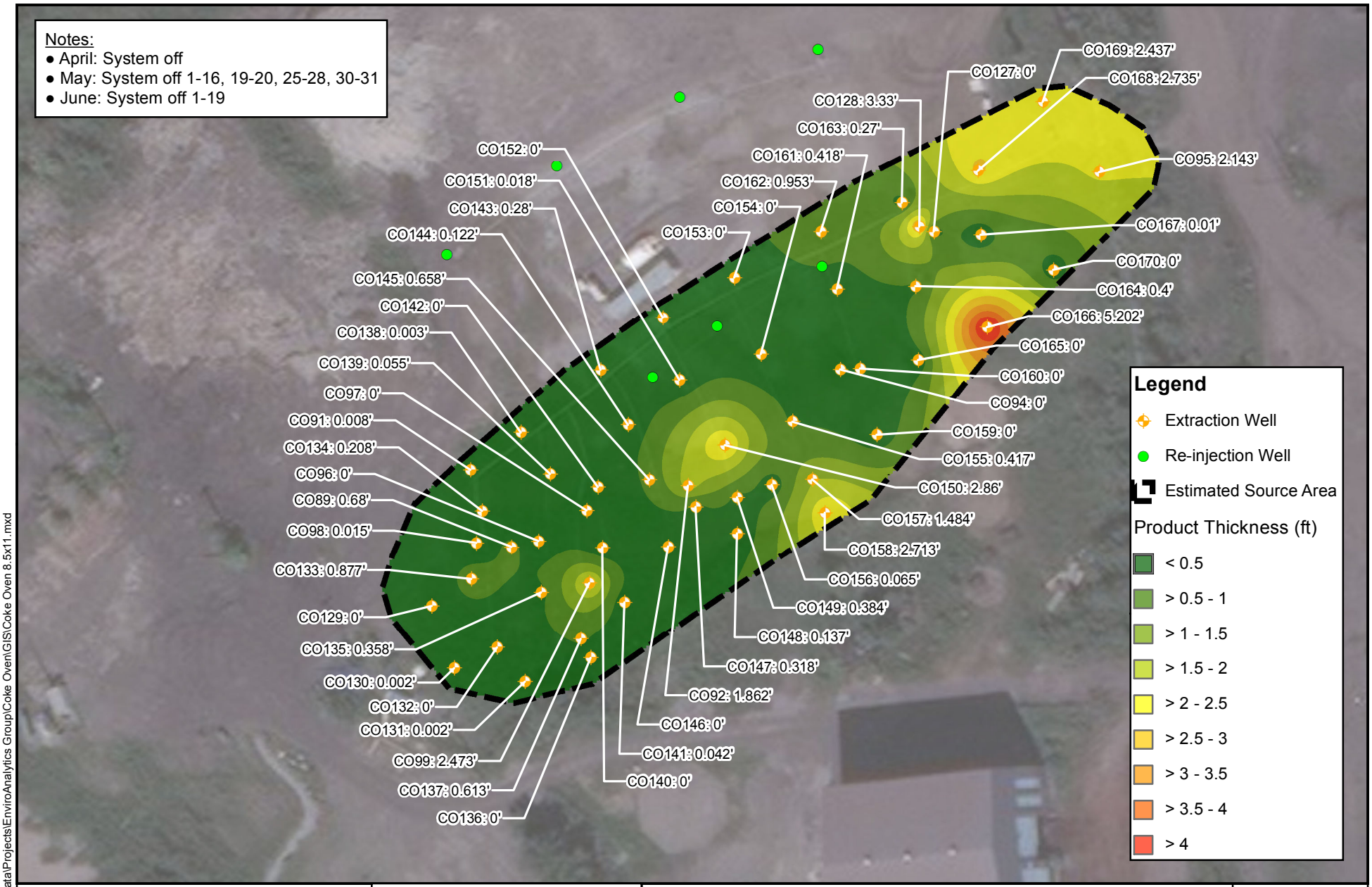
1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q1 2018 Average Product Thickness (ft)
Date: 1/29/2019

Figure C6-3

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd

N

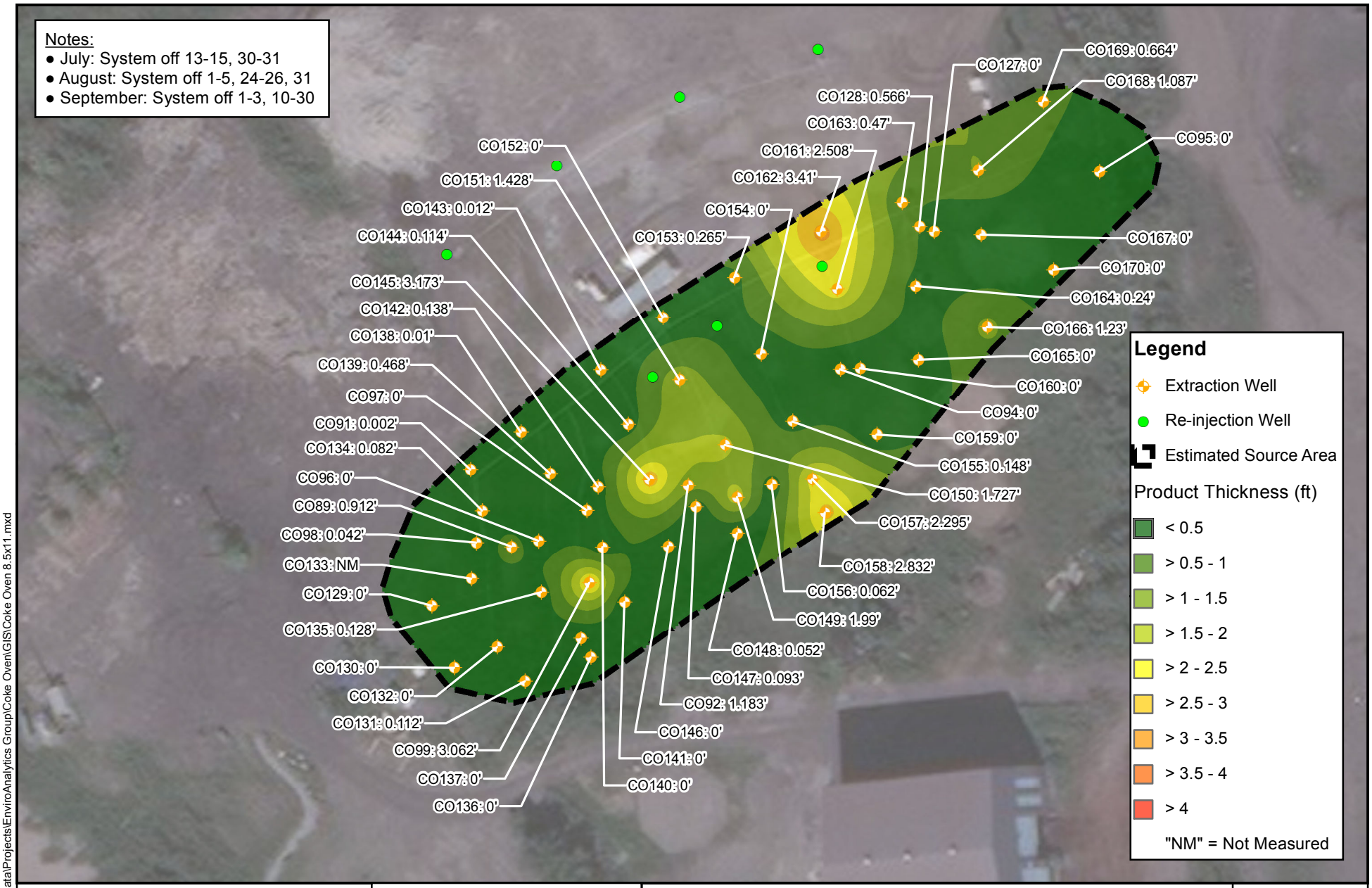
EnviroAnalytics Group

1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q2 2018 Average Product Thickness (ft)
Date: 1/29/2019

Figure C6-4



N

EnviroAnalytics Group

1 inch = 80 feet

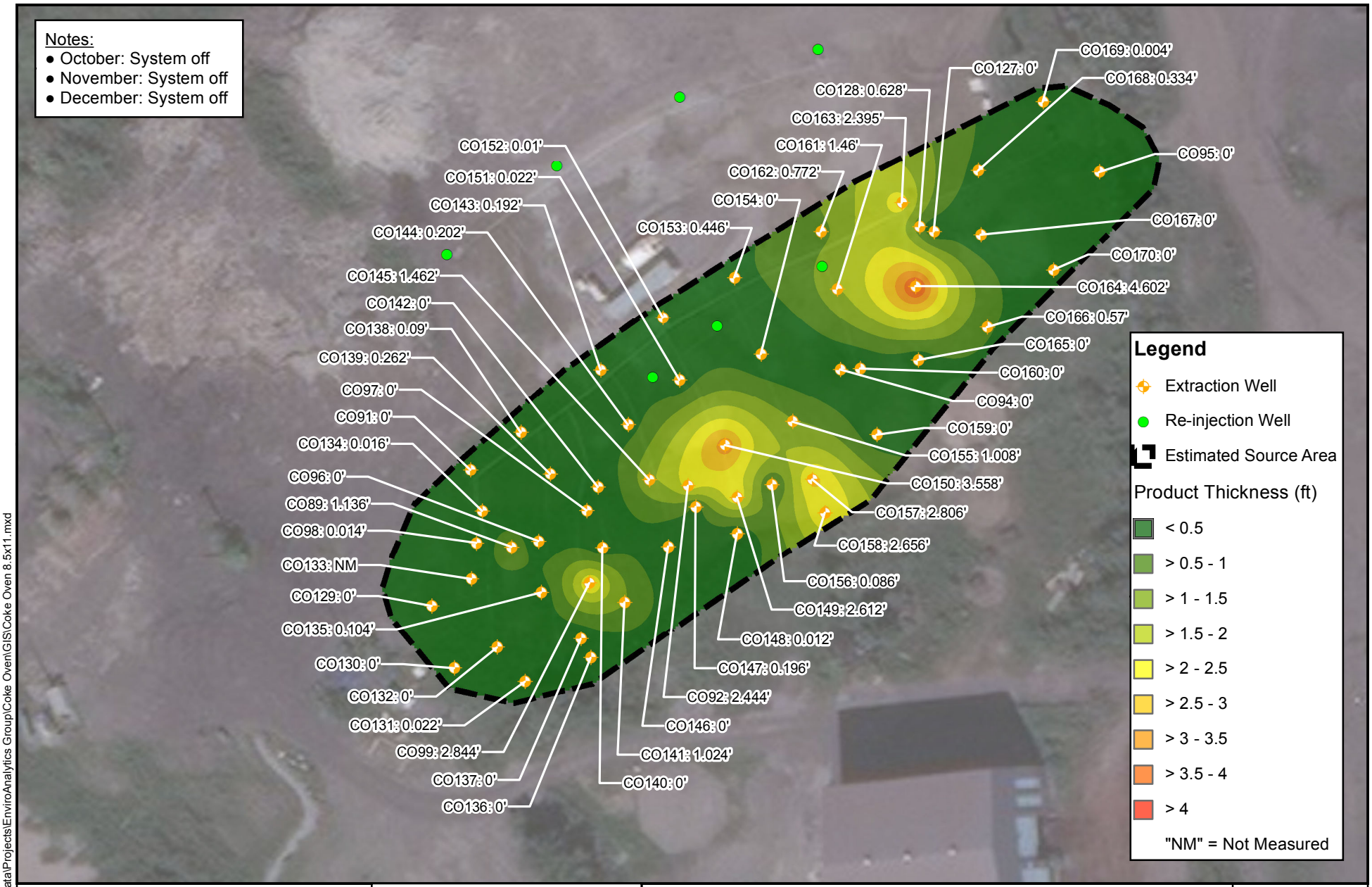
0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q3 2018 Average Product Thickness (ft)

Date: 1/29/2019

Figure C6-5

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



N

EnviroAnalytics Group

1 inch = 80 feet

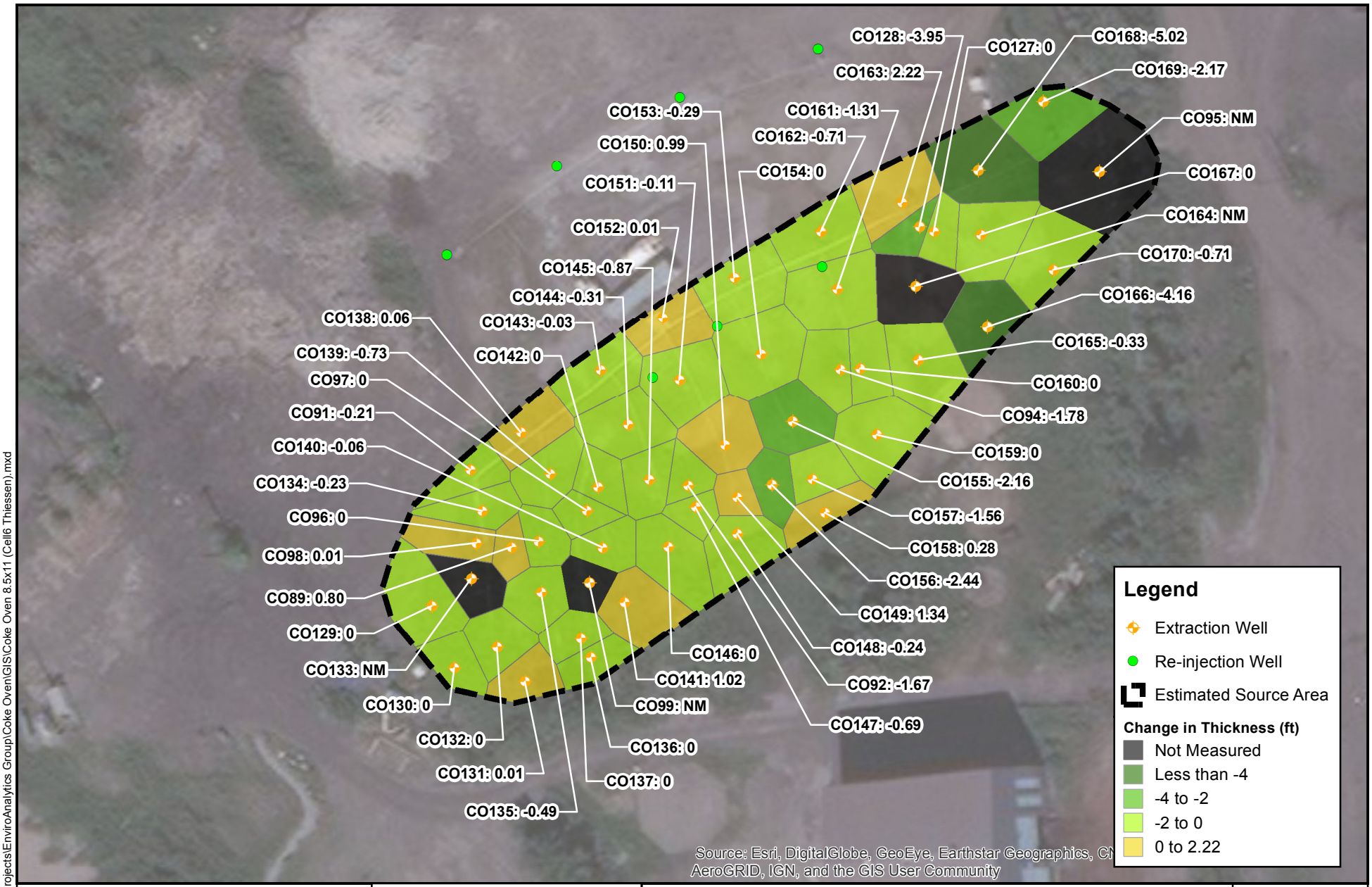
0 40 80 Feet

Former Coke Oven Area
Cell 6 Exctraction Wells
Q4 2018 Average Product Thickness (ft)

Date: 1/29/2019

Figure C6-6

\\COLUMBIADC01\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11.mxd



\\armgroup.lcl\CorpData\Projects\EnviroAnalytics Group\Coke Oven\GIS\Coke Oven 8.5x11 (Cell6 Thiessen).mxd

N

EnviroAnalytics Group

1 inch = 80 feet

0 40 80 Feet

Former Coke Oven Area: Cell 6 Change in Average Product Thickness from Q4 2017 to Q4 2018

Date: 2/8/2019

Figure C6-7

TABLES

Table C1-1: Summary of Operation Conditions
Cell 1: Prototype AS/SVE System in Former Benzol Processing Area

Cell 1 2018 Estimated Hydrocarbon Recovery

Parameter	Units	Q1 1/1 - 3/31	Q2 4/1 - 6/30	Q3 7/1 - 9/30	Q4 10/1 - 12/31	Total/Average 1/1 - 12/31
Flow Rate	SCFM	465	476	449	469	465
Average Concentrations	ug/m^3	247,145	136,463	122,198	248,660	754,466
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.431	0.243	0.205	0.437	0.329
Total VGAC Operating Time	hours	298	1,318	1,093	922	3,631
Overall VGAC Operational Time	%	13.8%	60.3%	49.5%	41.8%	41.4%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	128	321	225	403	1,076

NS = Not Sampled

Cell 1 Cumulative Summary of Estimated Hydrocarbon Recovery

August 3, 2010 - December 31, 2018

Parameter	Units	Quantity
Total VGAC Operating Time	hours	33,653
Overall VGAC Operational Time	%	45.6%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	13,969
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.4151

Table C1-2 - VGAC Influent Analytical Results
Cell 1: AS/SVE System in Former Benzol Processing Area

Month		January	February	March	April	May	June
Analyte (TO-15 Organics)	**Units**						
1,1,1-Trichloroethane	ug/m^3	**4.6**	*NS*	*NS*	*NS*	*29.7 U*	*42 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*0.91 U*	*NS*	*NS*	*NS*	*18.7 U*	*26.4 U*
1,1,2-Trichloroethane	ug/m^3	*0.72 U*	*NS*	*NS*	*NS*	*14.9 U*	*21 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*2 U*	*NS*	*NS*	*NS*	*41.8 U*	*59 U*
1,1-Dichloroethane	ug/m^3	*1.1 U*	*NS*	*NS*	*NS*	*22.1 U*	*31.1 U*
1,1-Dichloroethene	ug/m^3	*1 U*	*NS*	*NS*	*NS*	*21.6 U*	*30.5 U*
1,2,3-Trimethylbenzene	ug/m^3	**10**	*NS*	*NS*	*NS*	*26.8 UN2*	*37.8 UN2*
1,2,4-Trichlorobenzene	ug/m^3	*4.9 U*	*NS*	*NS*	*NS*	*101 U*	*143 U*
1,2,4-Trimethylbenzene	ug/m^3	**33.3**	*NS*	*NS*	*NS*	**26.8**	*37.8 U*
1,2-Dibromoethane (EDB)	ug/m^3	*2 U*	*NS*	*NS*	*NS*	*41.8 U*	*59 U*
1,2-Dichlorobenzene	ug/m^3	*1.6 U*	*NS*	*NS*	*NS*	*32.7 U*	*46.1 U*
1,2-Dichloroethane	ug/m^3	*0.53 U*	*NS*	*NS*	*NS*	*11 U*	*15.5 U*
1,2-Dichloropropane	ug/m^3	*1.2 U*	*NS*	*NS*	*NS*	*25.2 U*	*35.5 U*
1,3,5-Trimethylbenzene	ug/m^3	**80.7**	*NS*	*NS*	*NS*	**62.2**	*37.8 U*
1,3-Dichlorobenzene	ug/m^3	*1.6 U*	*NS*	*NS*	*NS*	*32.7 U*	*46.1 U*
1,4-Dichlorobenzene	ug/m^3	*1.6 U*	*NS*	*NS*	*NS*	*32.7 U*	*46.1 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*4.8 U*	*NS*	*NS*	*NS*	*98.1 U*	*138 U*
2-Butanone (MEK)	ug/m^3	*3.9 U*	*NS*	*NS*	*NS*	*80.4 U*	*113 U*
2-Hexanone	ug/m^3	*5.4 U*	*NS*	*NS*	*NS*	*111 U*	*157 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*5.4 U*	*NS*	*NS*	*NS*	*111 U*	*157 U*
Acetone	ug/m^3	*3.1 U*	*NS*	*NS*	*NS*	*64.6 U*	*91.1 U*
Benzene	ug/m^3	**243,000**	*NS*	*NS*	*NS*	**210,000**	**19,900**
Bromodichloromethane	ug/m^3	*1.8 U*	*NS*	*NS*	*NS*	*36.4 U*	*51.4 U*
Bromoform	ug/m^3	*2.7 U*	*NS*	*NS*	*NS*	*141 U*	*199 U*
Bromomethane	ug/m^3	*1 U*	*NS*	*NS*	*NS*	*21.1 U*	*29.8 U*
Carbon disulfide	ug/m^3	**1.7**	*NS*	*NS*	*NS*	*17 U*	*23.9 U*
Carbon tetrachloride	ug/m^3	*0.83 U*	*NS*	*NS*	*NS*	*17.1 U*	*24.2 U*
Chlorobenzene	ug/m^3	*1.2 U*	*NS*	*NS*	*NS*	*25.1 U*	*35.4 U*
Chloroethane	ug/m^3	*0.7 U*	*NS*	*NS*	*NS*	*14.4 U*	*20.3 U*
Chloroform	ug/m^3	*0.64 U*	*NS*	*NS*	*NS*	*13.3 U*	*18.7 U*
Chloromethane	ug/m^3	*0.55 U*	*NS*	*NS*	*NS*	*11.3 U*	*15.9 U*
cis-1,2-Dichloroethene	ug/m^3	*1 U*	*NS*	*NS*	*NS*	**161**	*30.5 U*
cis-1,3-Dichloropropene	ug/m^3	*1.2 U*	*NS*	*NS*	*NS*	*46.4 U*	*34.9 U*
Cyclohexane	ug/m^3	*0.91 U*	*NS*	*NS*	*NS*	*27.1 U*	*26.5 U*
Dibromochloromethane	ug/m^3	*2.2 U*	*NS*	*NS*	*NS*	**471**	*65.4 U*
Dichlorodifluoromethane	ug/m^3	**2.3**	*NS*	*NS*	*NS*	*58.2 U*	*38.2 U*
Ethylbenzene	ug/m^3	**238**	*NS*	*NS*	*NS*	*67 U*	*33.4 U*
Hexachloro-1,3-butadiene	ug/m^3	*2.8 U*	*NS*	*NS*	*NS*	*98.1 U*	*82 U*
Isopropylbenzene (Cumene)	ug/m^3	**14.4**	*NS*	*NS*	*NS*	*94.6 U*	*94.5 U*
Methylene Chloride	ug/m^3	*4.6 U*	*NS*	*NS*	*NS*	*71.3 U*	*133 U*
Methyl-tert-butyl ether	ug/m^3	*4.8 U*	*NS*	*NS*	*NS*	*23.2 U*	*138 U*
Naphthalene	ug/m^3	*3.5 U*	*NS*	*NS*	*NS*	*18.5 U*	*101 U*
Styrene	ug/m^3	*1.1 U*	*NS*	*NS*	*NS*	**39,800**	*32.7 U*
Tetrachloroethene	ug/m^3	*0.9 U*	*NS*	*NS*	*NS*	*14.6 U*	*26 U*
Toluene	ug/m^3	**2,910**	*NS*	*NS*	*NS*	*30.6 U*	**274**
trans-1,2-Dichloroethene	ug/m^3	*1 U*	*NS*	*NS*	*NS*	*7 U*	*30.5 U*
trans-1,3-Dichloropropene	ug/m^3	*1.2 U*	*NS*	*NS*	*NS*	**2,230**	*34.9 U*
Trichloroethene	ug/m^3	*0.71 U*	*NS*	*NS*	*NS*	*21.6 U*	*20.6 U*
Trichlorofluoromethane	ug/m^3	*1.5 U*	*NS*	*NS*	*NS*	*24.7 U*	*43.1 U*
Vinyl chloride	ug/m^3	*0.34 U*	*NS*	*NS*	*NS*	*21.6 U*	*9.8 U*
Xylene (Total)	ug/m^3	**850**	*NS*	*NS*	*NS*	*24.7 U*	*100 U*
Total Volatile Organics	ug/m^3	**247,145**	*NS*	*NS*	*NS*	**252,751**	**20,174**

Notes:

BOLD = Analyte detected

ug/m^3 = micro grams per cubic meter

U = Non-detect

NS = Not Sampled

Table C1-2 - VGAC Influent Analytical Results
Cell 1: AS/SVE System in Former Benzol Processing Area

Month		July	August	September	October	November	December
Analyte (TO-15 Organics)	**Units**						
1,1,1-Trichloroethane	ug/m^3	*714 U*	**18.2**	**44.9**	*42 U*	**15.4**	*1850 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*449 U*	*1.4 U*	*0.97 U*	*26.4 U*	*9.4 U*	*1160 U*
1,1,2-Trichloroethane	ug/m^3	*357 U*	*1.1 U*	*0.77 U*	*21 U*	*7.4 U*	*924 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*1000 U*	*3.1 U*	*2.2 U*	*59 U*	*20.9 U*	*2600 U*
1,1-Dichloroethane	ug/m^3	*529 U*	*1.6 U*	*1.1 U*	*31.1 U*	*11 U*	*1370 U*
1,1-Dichloroethene	ug/m^3	*518 U*	*1.6 U*	*1.1 U*	*30.5 U*	*10.8 U*	*1340 U*
1,2,3-Trimethylbenzene	ug/m^3	*643 UN2*	*2 UN2*	**3.2**	*37.8 UN2*	*13.4 UN2*	*1660 UN2*
1,2,4-Trichlorobenzene	ug/m^3	*2420 U*	*14.9 U*	*10.5 U*	*285 U*	*101 U*	*12500 U*
1,2,4-Trimethylbenzene	ug/m^3	*643 U*	*2 U*	**8.2**	*37.8 U*	*13.4 U*	*1660 U*
1,2-Dibromoethane (EDB)	ug/m^3	*1000 U*	*1.5 U*	*1.1 U*	*29.5 U*	*10.5 U*	*1300 U*
1,2-Dichlorobenzene	ug/m^3	*785 U*	*2.4 U*	*1.7 U*	*46.1 U*	*16.3 U*	*2030 U*
1,2-Dichloroethane	ug/m^3	*264 U*	*0.81 U*	*0.57 U*	*15.5 U*	*5.5 U*	*684 U*
1,2-Dichloropropane	ug/m^3	*604 U*	*1.9 U*	*1.3 U*	*35.5 U*	*12.6 U*	*1560 U*
1,3,5-Trimethylbenzene	ug/m^3	*643 U*	*2 U*	**8.7**	*37.8 U*	*13.4 U*	*1660 U*
1,3-Dichlorobenzene	ug/m^3	*785 U*	*2.4 U*	*1.7 U*	*46.1 U*	*16.3 U*	*2030 U*
1,4-Dichlorobenzene	ug/m^3	*785 U*	*6.1 U*	*4.3 U*	*116 U*	*41 U*	*5090 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*2350 U*	*7.2 U*	*5.1 U*	*138 U*	*49 U*	*6090 U*
2-Butanone (MEK)	ug/m^3	*1930 U*	*5.9 U*	**6.4**	*113 U*	*40.2 U*	*4990 U*
2-Hexanone	ug/m^3	*2680 U*	*8.2 U*	*5.8 U*	*157 U*	*55.7 U*	*6920 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*2680 U*	*8.2 U*	*5.8 U*	*157 U*	*55.7 U*	*6920 U*
Acetone	ug/m^3	*1550 U*	**46.2**	**22.1**	*91.1 U*	*32.3 U*	*4010 U*
Benzene	ug/m^3	**23,300**	**6,140**	**333,000**	**84,400**	**575,000**	**78,100**
Bromodichloromethane	ug/m^3	*875 U*	*2.7 U*	*1.9 U*	*51.4 U*	*18.2 U*	*2260 U*
Bromoform	ug/m^3	*1350 U*	*10.4 U*	*7.3 U*	*198 U*	*70.4 U*	*8740 U*
Bromomethane	ug/m^3	*507 U*	*1.6 U*	**6.9**	*29.8 U*	*10.6 U*	*1310 U*
Carbon disulfide	ug/m^3	*407 U*	**1.3**	**4.7**	*23.9 U*	*8.5 U*	*1050 U*
Carbon tetrachloride	ug/m^3	*411 U*	*2.5 U*	*1.8 U*	*48.4 U*	*17.2 U*	*2130 U*
Chlorobenzene	ug/m^3	*602 U*	*1.9 U*	*1.3 U*	*35.4 U*	*12.5 U*	*1560 U*
Chloroethane	ug/m^3	*345 U*	*1.1 U*	*0.75 U*	*20.3 U*	*7.2 U*	*892 U*
Chloroform	ug/m^3	*319 U*	*0.98 U*	*0.69 U*	*18.7 U*	*6.6 U*	*825 U*
Chloromethane	ug/m^3	*270 U*	**1.1**	*0.58 U*	*15.9 U*	*5.6 U*	*699 U*
cis-1,2-Dichloroethene	ug/m^3	*518 U*	*1.6 U*	*1.1 U*	*30.5 U*	*10.8 U*	*1340 U*
cis-1,3-Dichloropropene	ug/m^3	*594 U*	*1.8 U*	*1.3 U*	*34.9 U*	*12.4 U*	*1540 U*
Cyclohexane	ug/m^3	*450 U*	**5.6**	**5.7**	*66.2 U*	*23.4 U*	*2910 U*
Dibromochloromethane	ug/m^3	*1110 U*	*3.4 U*	*2.4 U*	*65.4 U*	*23.2 U*	*2880 U*
Dichlorodifluoromethane	ug/m^3	*650 U*	**3.2**	**2.7**	*38.2 U*	*13.5 U*	*1680 U*
Ethylbenzene	ug/m^3	*568 U*	**5.3**	**132**	*33.4 U*	**171**	*1470 U*
Hexachloro-1,3-butadiene	ug/m^3	*1400 U*	*10.7 U*	*7.5 U*	*205 U*	*72.6 U*	*9020 U*
Isopropylbenzene (Cumene)	ug/m^3	*1610 U*	**6.5**	**7.4**	*94.5 U*	*33.5 U*	*4160 U*
Methylene Chloride	ug/m^3	*2270 U*	**471**	*4.9 U*	*133 U*	*47.3 U*	*5870 U*
Methyl-tert-butyl ether	ug/m^3	*2350 U*	*7.2 U*	*5.1 U*	*138 U*	*49 U*	*6090 U*
Naphthalene	ug/m^3	*1710 U*	*5.3 U*	*7.4 U*	*101 U*	*35.6 U*	*4430 U*
Styrene	ug/m^3	*557 U*	*1.7 U*	*1.2 U*	*32.7 U*	*11.6 U*	*1440 U*
Tetrachloroethene	ug/m^3	*443 U*	*1.4 U*	*0.96 U*	*26 U*	*9.2 U*	*1150 U*
Toluene	ug/m^3	**1,440**	**28**	**1,830**	**97**	**7,680**	*1270 U*
trans-1,2-Dichloroethene	ug/m^3	*518 U*	*1.6 U*	*1.1 U*	*30.5 U*	*10.8 U*	*1340 U*
trans-1,3-Dichloropropene	ug/m^3	*594 U*	*1.8 U*	*1.3 U*	*34.9 U*	*12.4 U*	*1540 U*
Trichloroethene	ug/m^3	*351 U*	*1.1 U*	*0.76 U*	*20.6 U*	*7.3 U*	*909 U*
Trichlorofluoromethane	ug/m^3	*733 U*	**4.1**	**6.5**	*43.1 U*	*15.3 U*	*1900 U*
Vinyl chloride	ug/m^3	*167 U*	*0.51 U*	*0.36 U*	*9.8 U*	*3.5 U*	*865 U*
Xylene (Total)	ug/m^3	*1700 U*	**33**	*2360 U*	*100 U*	**517**	*4410 U*
Total Volatile Organics	ug/m^3	**24,740**	**6,764**	**335,089**	**84,497**	**583,383**	**78,100**

Notes:

BOLD = Analyte detected

ug/m^3 = micro grams per cubic meter

U = Non-detect

NS = Not Sampled

Table C1-3
Cell 1 Groundwater Analytical Results

Sample ID		CO02-PZM006			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**18.3**	**37.3**	**37.3**	**39.6**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**104,000**	**63,100**	**46,800**	**155,000**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**261**	**202**	**134**	**283**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**5.8**	**3.1**	**1.8**	**4.1**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**32**	**33.3**	**13.7**	**77.7**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**376**	**139**	**60.2**	**139**
Total Volatile Organics	µg/L	**104,693**	**63,515**	**47,047**	**155,543**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**314**	**164**	**119**	**187**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C1-3
Cell 1 Groundwater Analytical Results

Sample ID		CO18-PZM006			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	**12.6**	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**64.5**	**47.4**	**74.5**	**65.6**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**251,000**	**328,000**	**281,000**	**149,000**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**51.4**	**69.2**	**43.1**	**49.4**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**4.4**	**2.1**	**2.5**	**1.6**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**1,170**	**6,710**	**1,430**	**6,070**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**1,100**	**1,610**	**903**	**1,420**
Total Volatile Organics	µg/L	**253,390**	**336,451**	**283,453**	**156,607**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**182**	**172**	**121**	**135**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C1-3
Cell 1 Groundwater Analytical Results

Sample ID		CO93-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**19.9**	**16.7**	**21.8**	**35.1**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**117,000**	**122,000**	**201,000**	**172,000**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	**9.8**	**17.4**	**14.6**
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	**7.3**	**10.5**	**12.2**	**10.1**
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**812**	**934**	**1,120**	**975**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**735**	**952**	**1,180**	**1,010**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**27,100**	**32,900**	**63,900**	**60,700**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**7,240**	**9,080**	**17,100**	**16,200**
Total Volatile Organics	µg/L	**152,914**	**165,903**	**284,351**	**250,945**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**1,540**	**1,790**	**1,930**	**1,930**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-1: Summary of Operation Conditions
Cell 2: Prototype AS/SVE System

Cell 2 2018 Estimated Hydrocarbon Recovery

Parameter	Units	Q1 1/1 - 3/31	Q2 4/1 - 6/30	Q3 7/1 - 9/30	Q4 10/1 - 12/31	Total/Average 1/1 - 12/31
Flow Rate[1]	SCFM	188	122	*System Off*	*System Off*	155
Average Concentrations	ug/m^3	102	67	*NS*	*NS*	168
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.00007	0.00003	0	0	0.000026
Total VGAC Operating Time	hours	959	53	0	0	1,012
Overall VGAC Operational Time	%	44.4%	60.3%	0.0%	0.0%	26.2%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	0.07	0.002	0	0	0.07

NS = Not Sampled

[1]Flow rates are calculated with the assumption of 70 degree general operating temperature, instead of the actual pitot tube temperature.

Cell 2 Cumulative Summary of Estimated Hydrocarbon Recovery

October 1, 2014 - December 31, 2018

Parameter	Units	Quantity
Total VGAC Operating Time	hours	18,867
Overall VGAC Operational Time	%	50.6%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	282
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.0149

Table C2-2
Cell 2 Well Construction Information

Monitoring Well Designation	Monitoring Well Temporary Identification	Installation Method	Northing	Easting	Top of Casing Elevation	Protection Cover Type	Well Total Depth	Riser Length	Screen Length	Filter Pack Interval	Seal Interval	Grout Interval
CO27-PZM012	----------	Unknown	563239.965	1454916.917	5.12	Unknown	-----	-----	-----	-----	-----	-----
CO27-PZM046	----------	Unknown	563239.958	1454913.372	5.17	Unknown	-----	-----	-----	-----	-----	-----
CO36-PZM008	Cell 2 - MW1 (S)	Hollow Stem Auger	563212.310	1454571.760	6.94	Steel Riser	15.00	5.00	10.00	3-15	2-3	0-2
CO36-PZM043	Cell 2 - MW8 (I)	Hollow Stem Auger	563214.490	1454578.370	6.92	Steel Riser	50.00	30.00	20.00	28-50	27-28	0-27
CO37-PZM038	Cell 2 - MW9 (I)	Hollow Stem Auger	563268.500	1455154.680	12.12	Steel Riser	50.00	30.00	20.00	28-50	27-28	0-27
CO38-PZM006	Cell 2 - MW3 (S)	Hollow Stem Auger	563078.800	1454743.790	6.75	Steel Riser	13.00	3.00	10.00	2-13	1-2	0-1
CO38-PZM043	Cell 2 - MW10 (I)	Hollow Stem Auger	563078.330	1454737.750	6.65	Steel Riser	50.00	30.00	20.00	28-50	27-28	0-27
CO39-PZM007	Cell 2 - MW4 (S)	Hollow Stem Auger	563141.660	1455095.700	7.75	Steel Riser	15.00	5.00	10.00	3-15	2-3	0-2
CO39-PZM042	Cell 2 - MW11 (I)	Hollow Stem Auger	563140.070	1455089.800	7.91	Steel Riser	50.00	30.00	20.00	28-50	27-28	0-27
CO40-PZM008	Cell 2 - MW5 (S)	Hollow Stem Auger	563039.410	1455081.700	7.47	Steel Riser	15.00	5.00	10.00	3-15	2-3	0-2
CO41-PZM001	Cell 2 - MW6 (S)	Hollow Stem Auger	562873.180	1454953.000	13.57	Steel Riser	15.00	5.00	10.00	3-15	2-3	0-2
CO41-PZM036	Cell 2 - MW12 (I)	Hollow Stem Auger	562865.340	1454950.750	13.60	Steel Riser	50.00	30.00	20.00	28-50	27-28	0-27
CO42-PZM004	Cell 2 - MW7 (S)	Hollow Stem Auger	563177.720	1455458.510	10.83	Steel Riser	15.00	5.00	10.00	3-15	2-3	0-2

Table C2-3
Well Groundwater Elevations

Well ID	Temporary Well ID	Top of PVC Elevation (ft)	Aquifer	Well Depth from Ground Surface (ft)	3/13/2018-3/17/2018		6/4/2018-6/8/2018		9/12/2018-9/14/2018		12/14/2018-12/17/2018	
					Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)
CO27-PZM012		5.12	S		4.54	0.58	3.97	1.15	3.81	1.31	3.81	1.31
CO27-PZM046		5.17	I		8.59	-3.42	6.31	-1.14	6.04	-0.87	7.75	-2.58
CO36-PZM008	Cell 2 - MW1 (S)	6.94	S	15.00	7.48	-0.54	6.33	0.61	5.64	1.30	6.81	0.13
CO36-PZM043	Cell 2 - MW8 (I)	6.92	I	50.00	8.02	-1.10	6.82	0.1	6.52	0.40	7.41	-0.49
CO37-PZM038	Cell 2 - MW9 (I)	12.12	I	50.00	12.45	-0.33	11.38	0.74	11.48	0.64	11.47	0.65
CO38-PZM006	Cell 2 - MW3 (S)	6.75	S	13.00	6.83	-0.08	5.81	0.94	NM	NM	6.16	0.59
CO38-PZM043	Cell 2 - MW10 (I)	6.65	I	50.00	7.84	-1.19	6.37	0.28	NM	NM	7.14	-0.49
CO39-PZM007	Cell 2 - MW4 (S)	7.75	S	15.00	6.28	1.47	7.45	0.3	5.83	1.92	6.79	0.96
CO39-PZM042	Cell 2 - MW11 (I)	7.91	I	50.00	8.78	-0.87	5.11	2.8	7.26	0.65	8.12	-0.21
CO40-PZM008	Cell 2 - MW5 (S)	7.47	S	15.00	6.82	0.65	6.27	1.2	6.22	1.25	6.74	0.73
CO41-PZM001	Cell 2 - MW6 (S)	13.57	S	15.00	12.47	1.10	11.32	2.25	11.31	2.26	12.38	1.19
CO41-PZM036	Cell 2 - MW12 (I)	13.60	I	50.00	14.09	-0.49	12.06	1.54	12.56	1.04	13.38	0.22
CO42-PZM004	Cell 2 - MW7 (S)	10.83	S	15.00	6.78	4.05	5.74	5.09	7.64	3.19	4.47	6.36
CO43-PZM048	Extraction Well 1	0.00	I	48.00	NM	NM	NM	NM	NM	NM	NM	NM
CO44-PZM048	Extraction Well 2	0.00	I	48.00	NM	NM	NM	NM	NM	NM	NM	NM
CO45-PZM047	Extraction Well 3	0.00	I	47.00	NM	NM	NM	NM	NM	NM	NM	NM
CO46-PZM047	Extraction Well 4	0.00	I	47.00	NM	NM	NM	NM	NM	NM	NM	NM
CO47-PZM046	Extraction Well 5	0.00	I	46.00	NM	NM	NM	NM	NM	NM	NM	NM
CO48-PZM044	Extraction Well 6	0.00	I	44.00	NM	NM	NM	NM	NM	NM	NM	NM

Notes:

I = Intermediate depth wells

S = Water table well

NM = Not Measured

Table C2-4: Summary of Operation
Cell 2: Groundwater Pump Treat System

Parameter	Units	Q1 1/1 - 3/31	Q2 4/1 - 6/30	Q3 7/1 - 9/30	Q4 10/1 - 12/31	Total 1/1 - 12/31
Total Discharge	gallons	635,667	486,061	18,147	65,405	1,205,280
Extracted Total Concentrations	lbs/gal	2.28E-03	2.26E-03	0	2.56E-03	7.10E-03
Effluent Total Concentrations	lbs/gal	6.02E-06	4.02E-06	0	2.22E-05	3.22E-05
Extracted Hydrocarbons	lbs	1,452	1,100	0	167	2,719
Effluent Hydrocarbons	lbs	3.83	1.95	0	1.45	7.23
Total Hydrocarbons Removed	lbs	1,449	1,098	0	166	2,712

Table C2-5 - VGAC Influent Analytical Results
Cell 2: AS/SVE System

Month		January	February	March	April	May	June
Analyte (TO-15 Organics)	**Units**						
1,1,1-Trichloroethane	ug/m^3	*1.8 U*	*1.4 U*	*NS*	*1.4 U*	*NS*	*NS*
1,1,2,2-Tetrachloroethane	ug/m^3	*1.1 U*	*0.91 U*	*NS*	*0.88 U*	*NS*	*NS*
1,1,2-Trichloroethane	ug/m^3	*0.89 U*	*0.72 U*	*NS*	*0.7 U*	*NS*	*NS*
1,1,2-Trichlorotrifluoroethane	ug/m^3	**3.4**	*2 U*	*NS*	*2 U*	*NS*	*NS*
1,1-Dichloroethane	ug/m^3	*1.3 U*	*1.1 U*	*NS*	*1 U*	*NS*	*NS*
1,1-Dichloroethene	ug/m^3	*1.3 U*	*1 U*	*NS*	*1 U*	*NS*	*NS*
1,2,3-Trimethylbenzene	ug/m^3	*1.6 U*	*1.3 U*	*NS*	*1.3 UN2*	*NS*	*NS*
1,2,4-Trichlorobenzene	ug/m^3	*6.1 U*	*4.9 U*	*NS*	*4.8 U*	*NS*	*NS*
1,2,4-Trimethylbenzene	ug/m^3	**3.1**	*1.3 U*	*NS*	*1.3 U*	*NS*	*NS*
1,2-Dibromoethane (EDB)	ug/m^3	*2.5 U*	*2 U*	*NS*	*2 U*	*NS*	*NS*
1,2-Dichlorobenzene	ug/m^3	*2 U*	*1.6 U*	*NS*	*1.5 U*	*NS*	*NS*
1,2-Dichloroethane	ug/m^3	*0.66 U*	*0.53 U*	*NS*	*0.52 U*	*NS*	*NS*
1,2-Dichloropropane	ug/m^3	*1.5 U*	*1.2 U*	*NS*	*1.2 U*	*NS*	*NS*
1,3,5-Trimethylbenzene	ug/m^3	*1.6 U*	*1.3 U*	*NS*	*1.3 U*	*NS*	*NS*
1,3-Dichlorobenzene	ug/m^3	*2 U*	*1.6 U*	*NS*	*1.5 U*	*NS*	*NS*
1,4-Dichlorobenzene	ug/m^3	*2 U*	*1.6 U*	*NS*	*1.5 U*	*NS*	*NS*
1,4-Dioxane (p-Dioxane)	ug/m^3	*5.9 U*	*4.8 U*	*NS*	*4.6 U*	*NS*	*NS*
2-Butanone (MEK)	ug/m^3	*4.8 U*	**22**	*NS*	*3.8 U*	*NS*	*NS*
2-Hexanone	ug/m^3	*6.7 U*	*5.4 U*	*NS*	*5.2 U*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*6.7 U*	*5.4 U*	*NS*	*5.2 U*	*NS*	*NS*
Acetone	ug/m^3	**102**	**38**	*NS*	**6.9**	*NS*	*NS*
Benzene	ug/m^3	**3**	**1.5**	*NS*	**29.1**	*NS*	*NS*
Bromodichloromethane	ug/m^3	*2.2 U*	*1.8 U*	*NS*	*1.7 U*	*NS*	*NS*
Bromoform	ug/m^3	*3.4 U*	*2.7 U*	*NS*	*2.6 U*	*NS*	*NS*
Bromomethane	ug/m^3	*1.3 U*	*1 U*	*NS*	*0.99 U*	*NS*	*NS*
Carbon disulfide	ug/m^3	*1 U*	*0.82 U*	*NS*	*0.8 U*	*NS*	*NS*
Carbon tetrachloride	ug/m^3	*1 U*	*0.83 U*	*NS*	*0.81 U*	*NS*	*NS*
Chlorobenzene	ug/m^3	*1.5 U*	*1.2 U*	*NS*	*1.2 U*	*NS*	*NS*
Chloroethane	ug/m^3	*0.86 U*	*0.7 U*	*NS*	*0.68 U*	*NS*	*NS*
Chloroform	ug/m^3	**2.9**	**1.1**	*NS*	*0.62 U*	*NS*	*NS*
Chloromethane	ug/m^3	**8.4**	**5.1**	*NS*	*0.53 U*	*NS*	*NS*
cis-1,2-Dichloroethene	ug/m^3	*1.3 U*	*1 U*	*NS*	*1 U*	*NS*	*NS*
cis-1,3-Dichloropropene	ug/m^3	*1.5 U*	*1.2 U*	*NS*	*1.2 U*	*NS*	*NS*
Cyclohexane	ug/m^3	*1.1 U*	*0.91 U*	*NS*	*0.88 U*	*NS*	*NS*
Dibromochloromethane	ug/m^3	*2.8 U*	*2.2 U*	*NS*	*2.2 U*	*NS*	*NS*
Dichlorodifluoromethane	ug/m^3	**2.5**	**2.4**	*NS*	**1.7**	*NS*	*NS*
Ethylbenzene	ug/m^3	*1.4 U*	*1.1 U*	*NS*	*1.1 U*	*NS*	*NS*
Hexachloro-1,3-butadiene	ug/m^3	*3.5 U*	*2.8 U*	*NS*	*6.8 U*	*NS*	*NS*
Isopropylbenzene (Cumene)	ug/m^3	*4 U*	*3.2 U*	*NS*	*3.2 U*	*NS*	*NS*
Methylene Chloride	ug/m^3	*5.7 U*	*4.6 U*	*NS*	**22.2**	*NS*	*NS*
Methyl-tert-butyl ether	ug/m^3	*5.9 U*	*4.8 U*	*NS*	*4.6 U*	*NS*	*NS*
Naphthalene	ug/m^3	**4.7**	*3.5 U*	*NS*	*3.4 U*	*NS*	*NS*
Styrene	ug/m^3	*1.4 U*	*1.1 U*	*NS*	*1.1 U*	*NS*	*NS*
Tetrachloroethene	ug/m^3	*1.1 U*	*0.9 U*	*NS*	*0.87 U*	*NS*	*NS*
Toluene	ug/m^3	**3.1**	*1 U*	*NS*	**6.9**	*NS*	*NS*
trans-1,2-Dichloroethene	ug/m^3	*1.3 U*	*1 U*	*NS*	*1 U*	*NS*	*NS*
trans-1,3-Dichloropropene	ug/m^3	*1.5 U*	*1.2 U*	*NS*	*1.2 U*	*NS*	*NS*
Trichloroethene	ug/m^3	*0.88 U*	*0.71 U*	*NS*	*0.69 U*	*NS*	*NS*
Trichlorofluoromethane	ug/m^3	*1.8 U*	*1.5 U*	*NS*	*1.4 U*	*NS*	*NS*
Vinyl chloride	ug/m^3	*0.42 U*	*0.34 U*	*NS*	*0.33 U*	*NS*	*NS*
Xylene (Total)	ug/m^3	*4.3 U*	*3.4 U*	*NS*	*3.3 U*	*NS*	*NS*
Total Volatile Organics	ug/m^3	**133**	**70**	*NS*	**67**	*NS*	*NS*

Notes:

BOLD = Analyte detected

ug/m^3 = micro grams per cubic meter

U = Non-detect

NS = Not Sampled

Table C2-5 - VGAC Influent Analytical Results
Cell 2: AS/SVE System

Month		July	August	September	October	November	December
Analyte (TO-15 Organics)	**Units**						
1,1,1-Trichloroethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2,2-Tetrachloroethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichloroethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,3-Trimethylbenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trimethylbenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromoethane (EDB)	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichlorobenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloroethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloropropane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,3,5-Trimethylbenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,3-Dichlorobenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dioxane (p-Dioxane)	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Benzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromodichloromethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromoform	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromomethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Carbon disulfide	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Carbon tetrachloride	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chlorobenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloroethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloroform	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloromethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
cis-1,2-Dichloroethene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
cis-1,3-Dichloropropene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Cyclohexane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Dibromochloromethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Dichlorodifluoromethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Ethylbenzene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Hexachloro-1,3-butadiene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Isopropylbenzene (Cumene)	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methylene Chloride	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methyl-tert-butyl ether	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Naphthalene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Tetrachloroethene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Toluene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,2-Dichloroethene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,3-Dichloropropene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichloroethene	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichlorofluoromethane	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Vinyl chloride	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Xylene (Total)	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Total Volatile Organics	ug/m^3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Notes:

BOLD = Analyte detected

ug/m^3 = micro grams per cubic meter

U = Non-detect

NS = Not Sampled

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO27-PZM012			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**16.9**	**58.1**	**20.3**	**42.9**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**10,500**	**3,180**	**6,490**	**4,670**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**114**	**20.7**	**59.8**	**37.7**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**120**	**16.3**	**54.7**	**32.8**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**3,390**	**410**	**1,130**	**744**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**1,040**	**160**	**511**	**327**
Total Volatile Organics	µg/L	**15,181**	**3,845**	**8,266**	**5,854**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**913**	**176**	**482**	**293**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO27-PZM046			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**23.3**	**20.5**	**36.5**	**61.2**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**215,000**	**214,000**	**346,000**	**297,000**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	**1.7**	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	**2.4**	*5 U*	**2.5**
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**611**	**703**	**932**	**789**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**126**	**123**	**204**	**160**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**33,700**	**33,200**	**70,700**	**59,400**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**7290**	**8,260**	**23,900**	**16,300**
Total Volatile Organics	µg/L	**256,750**	**256,309**	**441,774**	**373,713**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**7,240**	**15,800**	**1,680**	**1,360**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO36-PZM008			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**18.6**	**25.3**	*50 U*	**29.5**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**3,830**	**23,400**	**6,550**	**8,050**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**7.4**	**88.6**	**31**	**27.2**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**1.9**	**25.8**	**7.2**	**7.6**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**628**	**5,590**	**1,360**	**1,610**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**392**	**1,610**	**520**	**642**
Total Volatile Organics	µg/L	**4,878**	**30,740**	**8,468**	**10,366**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**113**	**752**	**239**	**311**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO36-PZM043			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	*50 U*	**60**	**22.7**	**25.1**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**27,900**	**17,200**	**29,800**	**31,200**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**45.5**	**22.8**	**45.6**	**45.8**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**9.9**	**5.2**	**10.6**	**10.1**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**3,400**	**1,810**	**3,490**	**3,740**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**740**	**380**	**739**	**735**
Total Volatile Organics	µg/L	**32,095**	**19,478**	**34,108**	**35,756**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**655**	**414**	**836**	**766**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO37-PZM038			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*50 U*	*50 U*
Acetone	µg/L	**5.8**	**7.7**	*50 U*	**43.9**
Acrylonitrile	µg/L	*4 U*	*4 U*	*20 U*	*20 U*
Benzene	µg/L	**9,350**	**10800**	**12,100**	**12,300**
Bromochloromethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Bromoform	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Bromomethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	**1.6**	*5 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	**0.47**	*1 U*	*5 U*	*5 U*
Chloroethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Chloroform	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Chloromethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**263**	**263**	**248**	**243**
Iodomethane	µg/L	*50 U*	*50 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Styrene	µg/L	**368**	**385**	**374**	**377**
Tetrachloroethene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Toluene	µg/L	**6,570**	**6980**	**7,280**	**7,550**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*5 U*	*5 U*
Xylenes	µg/L	**1,880**	**1920**	**2,020**	**2,040**
Total Volatile Organics	µg/L	**18,437**	**20,356**	**22,024**	**22,554**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**1,260**	**1620**	**1,330**	**1,370**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO38-PZM006			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	*50 U*	**22.4**	*50 U*	**16.5**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**5,250**	**5,520**	**4,690**	**5,060**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	**1.7**	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**66.8**	**60.1**	**50.8**	**60.7**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**41**	**43.7**	**35.9**	**45.5**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**1,260**	**1,060**	**920**	**1,040**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**559**	**478**	**443**	**496**
Total Volatile Organics	µg/L	**7,177**	**7,184**	**6,141**	**6,719**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**1,350**	**1,320**	**1,170**	**1,370**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO38-PZM043			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**3.4**	**3.2**	**3.3**	**3.1**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	*1 U*	**4**	**4**	**0.45**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	**0.32**	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	**0.27**	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	*1 U*	**0**	**1**	*1 U*
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	*3 U*	*3 U*	**1.6**	*3 U*
Total Volatile Organics	µg/L	**3**	**7**	**10**	**4**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	*2 U*	*2 U*	**5.8**	*2 U*

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO39-PZM007			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**4.2**	**3.8**	**3**	*10 U*
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**370**	**355**	**664**	**381**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**2.1**	**2.2**	**4.1**	**2.2**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	**3**	*1 U*
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**33.5**	**21.1**	**79**	**24.8**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**11.8**	**12.4**	**23.6**	**12**
Total Volatile Organics	µg/L	**422**	**395**	**777**	**420**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**356**	**880**	**1180**	**902**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO39-PZM042			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*10 U*	*10 U*
Acetone	µg/L	*50 U*	**25.9**	**3.2**	**3.4**
Acrylonitrile	µg/L	*20 U*	*20 U*	*4 U*	*4 U*
Benzene	µg/L	**1,890**	**1,090**	**6,040**	**3,720**
Bromochloromethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Bromoform	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Bromomethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	**2.1**	*1 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Chloroethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Chloroform	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Chloromethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**14.7**	**7.6**	**70.7**	**37.7**
Iodomethane	µg/L	*250 U*	*250 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Styrene	µg/L	**19**	**10**	**98.9**	**55.3**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Toluene	µg/L	**568**	**272**	**2,240**	**1,320**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*1 U*	*1 U*
Xylenes	µg/L	**129**	**69.8**	**580**	**323**
Total Volatile Organics	µg/L	**2,621**	**1,475**	**9,035**	**5,459**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**947**	**1,040**	**1,840**	**1,970**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO40-PZM008			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	*10 U*	**7.4**	**3.1**	**4.3**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**61.1**	**464**	**5690**	**1,340**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	**0.71**	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	*1 U*	**1.6**	**105**	**17.3**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	**1**	**70.2**	**19.7**
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**3.7**	**29.8**	**1670**	**344**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**3.4**	**16.8**	**614**	**153**
Total Volatile Organics	µg/L	**68**	**521**	**8,153**	**1,878**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**27**	**160**	**2190**	**1,720**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO41-PZM001			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*50 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*50 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	*50 U*	**5**	*10 U*	**5.9**
Acrylonitrile	µg/L	*20 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**200**	**5**	**338**	**252**
Bromochloromethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**4.8**	*1 U*	**20.5**	**22.2**
Iodomethane	µg/L	*250 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**66**	**0.62**	**327**	**285**
trans-1,2-Dichloroethene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*50 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*5 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**45**	*3 U*	**203**	**177**
Total Volatile Organics	µg/L	**315**	**11**	**889**	**742**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**16**	**7.3**	**12**	**9.4**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO41-PZM036			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	*50 U*	*50 U*	*50 U*	**51.1**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**121,000**	**108,000**	**189,000**	**245,000**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	**2.8**	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	**2.1**
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**659**	**548**	**658**	**580**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**314**	**275**	**362**	**319**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**40,500**	**37,000**	**55,700**	**66,700**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*5 U*	**4**
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**11,500**	**10,300**	**16,900**	**13,300**
Total Volatile Organics	µg/L	**173,973**	**156,123**	**262,623**	**325,956**

Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**325**	**303**	**385**	**327**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C2-6
Cell 2 Groundwater Analytical Results

Sample ID		CO42-PZM004			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compound	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**29**	**7.5**	**7.2**	**23.6**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**72.5**	**51.5**	**294**	**5.8**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	**0.87**	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**7.6**	**6.8**	**56.2**	**5.1**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	**12.4**	**4.8**	**53**	**4.2**
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**205**	**107**	**615**	**10**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**219**	**72.3**	**409**	**39.5**
Total Volatile Organics	µg/L	**546**	**250**	**1,435**	**88**
Semi-Volatile Organic Compound	**Units**				
Naphthalene	µg/L	**22.1**	**25**	**210**	**5.9**

Notes:

Bold = Analyte Detected

µg/L = micrograms per liter

U = Analyte not detected above reporting limit

Table C3-1: Summary of Operation Conditions
Cell 3: AS/SVE System in Coke Area

Cell 3 2018 Estimated Hydrocarbon Recovery

Parameter	Units	Q1 1/1 - 3/31	Q2 4/1 - 6/30	Q3 7/1 - 9/30	Q4 10/1 - 12/31	Total/Average 1/1 - 12/31
Flow Rate[1]	SCFM	193	241	94	*System Off*	176
Average Concentrations	ug/m^3	18,742	17,403	206,621	*System Off*	242,766
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.014	0.016	0.072	*System Off*	0.034
Total VGAC Operating Time	hours	1,700	1,836	1,368	*System Off*	4,904
Overall VGAC Operational Time	%	78.7%	60.3%	62.0%	*System Off*	67.0%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	23.0	28.8	99.0	*System Off*	151

NS = Not Sampled

[1]Flow rates are calculated using the recorded sparge temperature instead of the actual pitot tube temperature.

Cell 3 Cumulative Summary of Estimated Hydrocarbon Recovery

August 3, 2010 - December 31, 2018

Parameter	Units	Quantity
Total VGAC Operating Time	hours	31,711
Overall VGAC Operational Time	%	43.0%
Estimated Total Hydrocarbons Destroyed/Removed	pounds	1,935
Estimated Hydrocarbon Destruction/Removal Rate	pounds/hour	0.0610

Table C3-2 - VGAC Influent Analytical Results
Cell 3: AS/SVE System in Cove Area

Month		January	February	March	April	May	June
Analyte (TO-15 Organics)	**Units**						
1,1,1-Trichloroethane	ug/m^3	*1.5 U*	*1.5 U*	*43.3 U*	*1.4 U*	*35.7 U*	*29.7 U*
1,1,2,2-Tetrachloroethane	ug/m^3	*0.95 U*	*0.94 U*	*27.2 U*	*0.91 U*	*22.5 U*	*18.7 U*
1,1,2-Trichloroethane	ug/m^3	*0.75 U*	*0.74 U*	*21.6 U*	*0.72 U*	*17.9 U*	*14.9 U*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*2.1 U*	*2.1 U*	*60.8 U*	*2 U*	*50.2 U*	*41.8 U*
1,1-Dichloroethane	ug/m^3	*1.1 U*	*1.1 U*	*32.1 U*	*1.1 U*	*26.5 U*	*22.1 U*
1,1-Dichloroethene	ug/m^3	*1.1 U*	*1.1 U*	*31.4 U*	*1 U*	*26.0 U*	*21.6 U*
1,2,3-Trimethylbenzene	ug/m^3	*1.4 U*	**2.3**	*39 U*	**4.7**	*32.2 U*	*26.8 U*
1,2,4-Trichlorobenzene	ug/m^3	*5.1 U*	*5.1 U*	*147 U*	*4.9 U*	*121 U*	*101 U*
1,2,4-Trimethylbenzene	ug/m^3	**2**	**6**	*39 U*	**7.9**	*32.2 U*	*26.8 U*
1,2-Dibromoethane (EDB)	ug/m^3	*2.1 U*	*2.1 U*	*60.8 U*	*2 U*	*50.2 U*	*41.8 U*
1,2-Dichlorobenzene	ug/m^3	*1.7 U*	*1.6 U*	*47.6 U*	*1.6 U*	*39.3 U*	*32.7 U*
1,2-Dichloroethane	ug/m^3	*0.56 U*	*0.55 U*	*16 U*	*0.53 U*	*13.2 U*	*11.0 U*
1,2-Dichloropropane	ug/m^3	*1.3 U*	*1.3 U*	*36.6 U*	*1.2 U*	*30.2 U*	*25.2 U*
1,3,5-Trimethylbenzene	ug/m^3	**3.7**	**11.4**	*39 U*	*1.3 U*	*32.2 U*	*26.8 U*
1,3-Dichlorobenzene	ug/m^3	*1.7 U*	*1.6 U*	*47.6 U*	*1.6 U*	*39.3 U*	*32.7 U*
1,4-Dichlorobenzene	ug/m^3	*1.7 U*	*1.6 U*	*47.6 U*	*1.6 U*	*39.3 U*	*32.7 U*
1,4-Dioxane (p-Dioxane)	ug/m^3	*5 U*	*4.9 U*	*143 U*	*4.8 U*	*118 U*	*98.1 U*
2-Butanone (MEK)	ug/m^3	*4.1 U*	*4 U*	*117 U*	*3.9 U*	*96.6 U*	*80.4 U*
2-Hexanone	ug/m^3	*5.7 U*	*5.6 U*	*162 U*	*5.4 U*	*134 U*	*111 U*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*5.7 U*	*5.6 U*	*162 U*	*5.4 U*	*134 U*	*111 U*
Acetone	ug/m^3	*3.3 U*	**13.4**	*94 U*	**11.2**	*77.6 U*	*64.6 U*
Benzene	ug/m^3	**17,500**	**12,100**	**22,100**	**16,400**	**10,800**	**19,800**
Bromodichloromethane	ug/m^3	*1.8 U*	*1.8 U*	*53 U*	*1.8 U*	*43.8 U*	*36.4 U*
Bromoform	ug/m^3	*2.9 U*	*2.8 U*	*81.9 U*	*2.7 U*	*169 U*	*141 U*
Bromomethane	ug/m^3	*1.1 U*	*1.1 U*	*30.8 U*	*1 U*	*25.4 U*	*21.1 U*
Carbon disulfide	ug/m^3	**1.3**	**1.9**	*24.7 U*	**1.7**	*20.4 U*	*17.0 U*
Carbon tetrachloride	ug/m^3	*0.87 U*	*0.86 U*	*24.9 U*	*0.83 U*	*20.6 U*	*17.1 U*
Chlorobenzene	ug/m^3	*1.3 U*	*1.3 U*	*36.5 U*	*1.2 U*	*30.1 U*	*25.1 U*
Chloroethane	ug/m^3	*0.73 U*	*0.72 U*	*20.9 U*	*0.7 U*	*17.3 U*	*14.4 U*
Chloroform	ug/m^3	*0.67 U*	*0.66 U*	*19.3 U*	*0.64 U*	*16.0 U*	*13.3 U*
Chloromethane	ug/m^3	*0.57 U*	**0.92**	*16.4 U*	*0.55 U*	*13.5 U*	*11.3 U*
cis-1,2-Dichloroethene	ug/m^3	*1.1 U*	*1.1 U*	*31.4 U*	*1 U*	*26.0 U*	*21.6 U*
cis-1,3-Dichloropropene	ug/m^3	*1.3 U*	*1.2 U*	*36 U*	*1.2 U*	*29.7 U*	*24.7 U*
Cyclohexane	ug/m^3	*0.95 U*	**2.6**	*27.3 U*	*0.91 U*	*22.5 U*	*18.8 U*
Dibromochloromethane	ug/m^3	*2.4 U*	*2.3 U*	*67.5 U*	*2.2 U*	*55.7 U*	*46.4 U*
Dichlorodifluoromethane	ug/m^3	**2.4**	**2.8**	*39.4 U*	**1.7**	*32.5 U*	*27.1 U*
Ethylbenzene	ug/m^3	**14.7**	**23.0**	*34.4 U*	**24.3**	*28.4 U*	*23.7 U*
Hexachloro-1,3-butadiene	ug/m^3	*3 U*	*2.9 U*	*84.6 U*	*7 U*	*69.9 U*	*58.2 U*
Isopropylbenzene (Cumene)	ug/m^3	*3.4 U*	*3.4 U*	*97.5 U*	**3.6**	*80.5 U*	*67.0 U*
Methylene Chloride	ug/m^3	*4.8 U*	**60.9**	*344 U*	*4.6 U*	*114 U*	*94.6 U*
Methyl-tert-butyl ether	ug/m^3	*5 U*	*4.9 U*	*143 U*	*4.8 U*	*118 U*	*98.1 U*
Naphthalene	ug/m^3	*3.6 U*	*3.6 U*	**234**	**7.5**	*85.7 U*	*71.3 U*
Styrene	ug/m^3	*1.2 U*	**1.5**	*33.8 U*	**1.9**	*27.9 U*	*23.2 U*
Tetrachloroethene	ug/m^3	*0.94 U*	**6**	*53.8 U*	*0.9 U*	*22.2 U*	*18.5 U*
Toluene	ug/m^3	**1,070**	**1,110**	**1,140**	**1,860**	**718**	**1,640**
trans-1,2-Dichloroethene	ug/m^3	*1.1 U*	*1.1 U*	*31.4 U*	*1 U*	*26.0 U*	*21.6 U*
trans-1,3-Dichloropropene	ug/m^3	*1.3 U*	*1.2 U*	*36 U*	*1.2 U*	*29.7 U*	*24.7 U*
Trichloroethene	ug/m^3	*0.74 U*	*0.73 U*	*21.3 U*	*0.71 U*	*17.6 U*	*14.6 U*
Trichlorofluoromethane	ug/m^3	*1.6 U*	**1.7**	*44.5 U*	*1.5 U*	*36.7 U*	*30.6 U*
Vinyl chloride	ug/m^3	*0.35 U*	*0.35 U*	*10.1 U*	*0.34 U*	*8.4 U*	*7.0 U*
Xylene (Total)	ug/m^3	**148**	**312**	**352**	**351**	**146**	**429**
Total Volatile Organics	ug/m^3	**18,742**	**13,656**	**23,826**	**18,676**	**11,664**	**21,869**

Notes:

BOLD = Analyte detected

ug/m^3 = micro grams per cubic meter

U = Analyte not detected above reporting limit.

NS = Not Sampled

Table C3-2 - VGAC Influent Analytical Results
Cell 3: AS/SVE System in Cove Area

Month		July	August	September	October	November	December
Analyte (TO-15 Organics)	**Units**						
1,1,1-Trichloroethane	ug/m^3	*48 U*	*8.6 U*	*NS*	*NS*	*NS*	*NS*
1,1,2,2-Tetrachloroethane	ug/m^3	*30.2 U*	*5.4 U*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichloroethane	ug/m^3	*24 U*	*4.3 U*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichlorotrifluoroethane	ug/m^3	*67.4 U*	*12.1 U*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethane	ug/m^3	*35.6 U*	*6.4 U*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethene	ug/m^3	*34.8 U*	*6.2 U*	*NS*	*NS*	*NS*	*NS*
1,2,3-Trimethylbenzene	ug/m^3	*43.2 U*	*7.7 U*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	ug/m^3	*163 U*	*58.4 U*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trimethylbenzene	ug/m^3	*43.2 U*	*7.7 U*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromoethane (EDB)	ug/m^3	*67.4 U*	*6.1 U*	*NS*	*NS*	*NS*	*NS*
1,2-Dichlorobenzene	ug/m^3	*52.7 U*	*9.5 U*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloroethane	ug/m^3	*17.8 U*	*3.2 U*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloropropane	ug/m^3	*40.6 U*	*7.3 U*	*NS*	*NS*	*NS*	*NS*
1,3,5-Trimethylbenzene	ug/m^3	*43.2 U*	**13.1**	*NS*	*NS*	*NS*	*NS*
1,3-Dichlorobenzene	ug/m^3	*52.7 U*	*9.5 U*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	ug/m^3	*52.7 U*	*23.7 U*	*NS*	*NS*	*NS*	*NS*
1,4-Dioxane (p-Dioxane)	ug/m^3	*158 U*	*28.4 U*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	ug/m^3	*130 U*	*23.2 U*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	ug/m^3	*180 U*	*32.2 U*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	ug/m^3	*180 U*	*32.2 U*	*NS*	*NS*	*NS*	*NS*
Acetone	ug/m^3	*104 U*	**20.4**	*NS*	*NS*	*NS*	*NS*
Benzene	ug/m^3	**395,000**	**11,500**	*NS*	*NS*	*NS*	*NS*
Bromodichloromethane	ug/m^3	*58.8 U*	*10.5 U*	*NS*	*NS*	*NS*	*NS*
Bromoform	ug/m^3	*90.7 U*	*40.7 U*	*NS*	*NS*	*NS*	*NS*
Bromomethane	ug/m^3	*34.1 U*	*6.1 U*	*NS*	*NS*	*NS*	*NS*
Carbon disulfide	ug/m^3	*27.3 U*	*4.9 U*	*NS*	*NS*	*NS*	*NS*
Carbon tetrachloride	ug/m^3	*55.3 U*	*9.9 U*	*NS*	*NS*	*NS*	*NS*
Chlorobenzene	ug/m^3	*40.4 U*	*7.3 U*	*NS*	*NS*	*NS*	*NS*
Chloroethane	ug/m^3	*23.2 U*	*4.2 U*	*NS*	*NS*	*NS*	*NS*
Chloroform	ug/m^3	*21.4 U*	*3.8 U*	*NS*	*NS*	*NS*	*NS*
Chloromethane	ug/m^3	*18.1 U*	*3.3 U*	*NS*	*NS*	*NS*	*NS*
cis-1,2-Dichloroethene	ug/m^3	*34.8 U*	*6.2 U*	*NS*	*NS*	*NS*	*NS*
cis-1,3-Dichloropropene	ug/m^3	*39.9 U*	*7.2 U*	*NS*	*NS*	*NS*	*NS*
Cyclohexane	ug/m^3	*30.2 U*	*13.6 U*	*NS*	*NS*	*NS*	*NS*
Dibromochloromethane	ug/m^3	*74.7 U*	*13.4 U*	*NS*	*NS*	*NS*	*NS*
Dichlorodifluoromethane	ug/m^3	*43.6 U*	*7.8 U*	*NS*	*NS*	*NS*	*NS*
Ethylbenzene	ug/m^3	**52.4**	**14.5**	*NS*	*NS*	*NS*	*NS*
Hexachloro-1,3-butadiene	ug/m^3	*93.7 U*	*42 U*	*NS*	*NS*	*NS*	*NS*
Isopropylbenzene (Cumene)	ug/m^3	*108 U*	*19.4 U*	*NS*	*NS*	*NS*	*NS*
Methylene Chloride	ug/m^3	*152 U*	*27.4 U*	*NS*	*NS*	*NS*	*NS*
Methyl-tert-butyl ether	ug/m^3	*158 U*	*28.4 U*	*NS*	*NS*	*NS*	*NS*
Naphthalene	ug/m^3	*115 U*	*20.6 U*	*NS*	*NS*	*NS*	*NS*
Styrene	ug/m^3	*37.4 U*	*6.7 U*	*NS*	*NS*	*NS*	*NS*
Tetrachloroethene	ug/m^3	*29.8 U*	*5.3 U*	*NS*	*NS*	*NS*	*NS*
Toluene	ug/m^3	**5,010**	**729**	*NS*	*NS*	*NS*	*NS*
trans-1,2-Dichloroethene	ug/m^3	*34.8 U*	*6.2 U*	*NS*	*NS*	*NS*	*NS*
trans-1,3-Dichloropropene	ug/m^3	*39.9 U*	*7.2 U*	*NS*	*NS*	*NS*	*NS*
Trichloroethene	ug/m^3	*23.6 U*	*4.2 U*	*NS*	*NS*	*NS*	*NS*
Trichlorofluoromethane	ug/m^3	*49.2 U*	*8.8 U*	*NS*	*NS*	*NS*	*NS*
Vinyl chloride	ug/m^3	*11.2 U*	*2 U*	*NS*	*NS*	*NS*	*NS*
Xylene (Total)	ug/m^3	**621**	**282**	*NS*	*NS*	*NS*	*NS*
Total Volatile Organics	ug/m^3	**400,683**	**12,559**	*NS*	*NS*	*NS*	*NS*

Notes:

BOLD = Analyte detected

ug/m^3 = micro grams per cubic meter

U = Analyte not detected above reporting limit.

NS = Not Sampled

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO101-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,1-Dichloroethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,1-Dichloroethene	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*NS*	*NS*	*25 U*	*5 U*
1,2-Dibromoethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,2-Dichloroethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,2-Dichloropropane	µg/L	*NS*	*NS*	*5 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*NS*	*NS*	*5 U*	*1 U*
2-Butanone (MEK)	µg/L	*NS*	*NS*	*50 U*	*10 U*
2-Hexanone	µg/L	*NS*	*NS*	*50 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*NS*	*NS*	*50 U*	*10 U*
Acetone	µg/L	*NS*	*NS*	*50 U*	*10 U*
Acrylonitrile	µg/L	*NS*	*NS*	*20 U*	*4 U*
Benzene	µg/L	*NS*	*NS*	**28.7**	**10.8**
Bromochloromethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
Bromodichloromethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
Bromoform	µg/L	*NS*	*NS*	*5 U*	*1 U*
Bromomethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
Carbon disulfide	µg/L	*NS*	*NS*	*5 U*	*1 U*
Carbon tetrachloride	µg/L	*NS*	*NS*	*5 U*	*1 U*
Chlorobenzene	µg/L	*NS*	*NS*	*5 U*	*1 U*
Chloroethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
Chloroform	µg/L	*NS*	*NS*	*5 U*	*1 U*
Chloromethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*NS*	*NS*	*5 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*NS*	*NS*	*5 U*	*1 U*
Dibromochloromethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
Dibromomethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
Ethylbenzene	µg/L	*NS*	*NS*	*5 U*	*1 U*
Iodomethane	µg/L	*NS*	*NS*	*250 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*NS*	*NS*	*5 U*	*1 U*
Methylene Chloride	µg/L	*NS*	*NS*	*5 U*	*1 U*
Styrene	µg/L	*NS*	*NS*	*5 U*	*1 U*
Tetrachloroethene	µg/L	*NS*	*NS*	*5 U*	*1 U*
Toluene	µg/L	*NS*	*NS*	*5 U*	**0.55**
trans-1,2-Dichloroethene	µg/L	*NS*	*NS*	*5 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*NS*	*NS*	*5 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*NS*	*NS*	*25 U*	*5 U*
Trichloroethene	µg/L	*NS*	*NS*	**2.9**	*1 U*
Trichlorofluoromethane	µg/L	*NS*	*NS*	*5 U*	*1 U*
Vinyl Acetate	µg/L	*NS*	*NS*	*50 U*	*10 U*
Vinyl chloride	µg/L	*NS*	*NS*	*5 U*	*1 U*
Xylenes	µg/L	*NS*	*NS*	*15 U*	*3 U*
Total Volatile Organics	µg/L	*NS*	*NS*	**32**	**11**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*NS*	*NS*	**6.2**	*2 U*

Notes:

Bold = Analyte Detected

NS = Not Sampled

µg/L = Micrograms per liter

U = Analyte not detected above laboratory reporting limit

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO102-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*5 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*10 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*10 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*10 U*	*50 U*
Acetone	µg/L	*50 U*	**18.6**	*10 U*	**18.6**
Acrylonitrile	µg/L	*20 U*	*20 U*	*4 U*	*20 U*
Benzene	µg/L	**16,900**	**12,300**	*1 U*	**15,300**
Bromochloromethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Ethylbenzene	µg/L	**24.9**	**19.7**	*1 U*	**20.4**
Iodomethane	µg/L	*250 U*	*250 U*	*50 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*1 U*	**6.5**
Styrene	µg/L	**7.3**	**6.4**	*1 U*	**6.6**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Toluene	µg/L	**1,230**	**884**	*1 U*	**859**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*5 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*10 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*1 U*	*5 U*
Xylenes	µg/L	**293**	**228**	*3 U*	**249**
Total Volatile Organics	µg/L	**18,455**	**13,457**	**0**	**16,460**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**987**	**980**	*2 U*	**917**

Notes:

Bold = Analyte Detected

NS = Not Sampled

µg/L = Micrograms per liter

U = Analyte not detected above laboratory reporting l

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO103-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**25.2**	**18.3**	**16.5**	**43.3**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**13,000**	**57.5**	**837**	**786**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**30.4**	*5 U*	**2.3**	*5 U*
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**4.6**	*5 U*	*5 U*	*5 U*
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**1,100**	**8.1**	**59.3**	**41.6**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	**6.8**	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**499**	*15 U*	**27.8**	**28.2**
Total Volatile Organics	µg/L	**14,659**	**84**	**950**	**899**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**1,760**	**14.6**	**82.3**	**112**

Notes:

Bold = Analyte Detected

NS = Not Sampled

µg/L = Micrograms per liter

U = Analyte not detected above laboratory reporting l

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO104-PZM			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	*10 U*	**3.4**	**13.1**	*10 U*
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	*1 U*	*1 U*	**59.5**	**3.6**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	*1 U*	*1 U*	**5.3**	*1 U*
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	*3 U*	*3 U*	**4.3**	*3 U*
Total Volatile Organics	µg/L	**0**	**3.4**	**82**	**4**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*2 U*	*2 U*	**13.5**	*2 U*

Notes:

Bold = Analyte Detected

NS = Not Sampled

µg/L = Micrograms per liter

U = Analyte not detected above laboratory reporting l

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO30-PZM015			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**22.3**	**19.3**	*50 U*	*50 U*
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**50,800**	**72,700**	**25,500**	**70,300**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**84.5**	**95.4**	**39.9**	**111**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**12.3**	**15.3**	**5.4**	**16**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**3,190**	**5,020**	**1,410**	**5,460**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	**4.7**	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**1,210**	**1,290**	**572**	**1,500**
Total Volatile Organics	µg/L	**55,319**	**79,140**	**27,532**	**77,387**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**1,720**	**1,980**	**1,020**	**4,660**

Notes:

Bold = Analyte Detected

NS = Not Sampled

µg/L = Micrograms per liter

U = Analyte not detected above laboratory reporting l

Table C3-3
Cell 3 Groundwater Analytical Results

Sample ID		CO30-PZM060			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**3.6**	**4.5**	*10 U*	**3.1**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**19.2**	**16.9**	**80.4**	**22.2**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	**0.38**	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	*1 U*	*1 U*	**1.8**	*1 U*
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	*3 U*	*3 U*	*3 U*	*3 U*
Total Volatile Organics	µg/L	**22.80**	**21.40**	**82.6**	**25**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*2 U*	*2 U*	*2 U*	*2 U*

Notes:

Bold = Analyte Detected

NS = Not Sampled

µg/L = Micrograms per liter

U = Analyte not detected above laboratory reporting l

Table C5-1
Cell 5 Well Construction Information

Monitoring Well Designation	Monitoring Well Temporary Identification	Installation Method	Northing	Easting	Top of Casing Elevation	Protection Cover Type	Well Total Depth	Riser Length	Screen Length	Filter Pack Interval	Seal Interval	Grout Interval
CO23-PZM008	----------	Hollow Stem Auger	561783.979	1457095.859	11.17	Flush Mount	19	9	10	7-19	5-7	0-5
CO24-PZM007	----------	Hollow Stem Auger	562048.175	1457276.816	12.02	Flush Mount	19	9	10	7-19	5-7	0-5
CO26-PZM007	----------	Hollow Stem Auger	561682.425	1458048.048	12.76	Flush Mount	20	10	10	8-20	6-8	0-6
CO55-PZM000	Cell 5 - MW1 (S)	Hollow Stem Auger	561434.420	1457585.900	15.10	Steel Riser	15	5	10	3-15	2-3	0-2
CO56-PZP001	Cell 5 - MW2 (S)	Hollow Stem Auger	561668.410	1457790.050	15.92	Steel Riser	15	5	10	3-15	2-3	0-2
CO57-PZP002	Cell 5 - MW3 (S)	Hollow Stem Auger	561122.520	1457530.000	16.59	Steel Riser	15	5	10	3-15	2-3	0-2
CO58-PZM001	Cell 5 - MW4 (S)	Hollow Stem Auger	561331.310	1457989.130	14.31	Steel Riser	15	5	10	3-15	2-3	0-2
CO59-PZP002	Cell 5 - MW5 (S)	Hollow Stem Auger	561446.980	1457308.790	16.75	Steel Riser	15	5	10	3-15	2-3	0-2
CO60-PZP001	Cell 5 - MW6 (S)	Hollow Stem Auger	561872.550	1457913.360	15.83	Steel Riser	15	5	10	3-15	2-3	0-2

Table C5-2
Well Groundwater Elevations

Well ID	Temporary Well ID	Top of PVC Elevation (ft)	Aquifer	Well Depth from Ground Surface (ft)	3/9/2018-3/12/2018		6/5/2018		9/11/2018-9/13/2018		12/18/2018-12/19/2018	
					Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)	Depth to Groundwater	Groundwater Elevation (ft)
CO55-PZM000	Cell 5 - MW1 (S)	15.10	Shallow	15.00	14.33	0.77	13.31	1.79	13.48	1.62	14.53	0.57
CO56-PZP001	Cell 5 - MW2 (S)	15.92	Shallow	15.00	15.13	0.79	14.14	1.78	12.34	3.58	14.49	1.43
CO57-PZP002	Cell 5 - MW3 (S)	16.59	Shallow	15.00	15.72	0.87	14.81	1.78	14.62	1.97	14.44	2.15
CO58-PZM001	Cell 5 - MW4 (S)	14.31	Shallow	15.00	13.70	0.61	12.69	1.62	12.61	1.70	12.99	1.32
CO59-PZP002	Cell 5 - MW5 (S)	16.75	Shallow	15.00	15.95	0.80	14.93	1.82	15.10	1.65	15.27	1.48
CO60-PZP001	Cell 5 - MW6 (S)	15.83	Shallow	15.00	15.16	0.67	14.06	1.77	14.20	1.63	14.47	1.36
CO23-PZM008		15.74	Shallow	19.00	14.93	0.81	13.86	1.88	14.10	1.64	14.20	1.54
CO24-PZM007		15.95	Shallow	19.00	14.72	1.23	13.47	2.48	13.60	2.35	13.74	2.21
CO26-PZM007		12.76	Shallow	20.00	12.02	0.74	10.81	1.95	11.22	1.54	11.36	1.40

Table C5-3: Summary of Operation
Cell 5: DPE System

Parameter	Units	Q1 1/1 - 3/31	Q2 4/1 - 6/30	Q3 7/1 - 9/30	Q4 10/1 - 12/31	Total 1/1 - 12/31
Total Discharge	gallons	1,101,813	1,755,098	1,748,335	1,938,636	6,543,882
Influence Total Concentrations	lbs/gal	4.08E-05	3.73E-05	2.96E-05	2.67E-05	1.34E-04
Effluence Total Concentrations	lbs/gal	1.87E-06	3.86E-07	0	3.20E-08	2.29E-06
Influence Hydrocarbons	lbs	45.0	65.4	51.7	51.9	214
Effluence Hydrocarbons	lbs	2.06	0.68	0	0.06	2.80
Total Hydrocarbons Removed	lbs	42.9	64.8	51.7	51.8	211

Table C5-4
Cell 5 DNAPL Occurrence and Recovery

Well ID	Total DNAPL Recovery Period		Pre-2018		Estimated DNAPL Recovered 2018		Cumulative Total DNAPL Recovered	
	Begin	End	(gal)	(lbs)[1]	(gal)	(lbs)[1]	(gal)	(lbs)[1]
CO123	1-Jan-16	On-going[2]	348	3,340	150	1,440	498	4,779
CO124	1-Jan-16	On-going[2]	250	2,399	150	1,440	400	3,839
CO125	1-Jan-16	On-going[2]	0	0	70	672	70	672
CO169	1-Jan-16	On-going[2]	50	480	0	0	50	480
Total Recovery:			**648**	**6,219**	**370**	**3,551**	**1,018**	**9,770**

Notes:

[1] Weight is calculated based on oil density of 1.15 grams per cubic centimeter.
[2] Skimmer

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO23-PZM008			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*500 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*1,000 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*1,000 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*1,000 U*
Acetone	µg/L	**14.5**	**37.2**	**17.7**	*1,000 U*
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*400 U*
Benzene	µg/L	**600**	**403**	**163**	**264**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	**2.2**	*100 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Ethylbenzene	µg/L	**25**	**16.8**	**10**	*100 U*
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*5,000 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	**160**
Styrene	µg/L	**22.1**	**8.4**	**5.7**	*100 U*
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Toluene	µg/L	**310**	**26.8**	**20.3**	**56.8**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*500 U*
Trichloroethene	µg/L	*5 U*	*5 U*	**3.6**	*100 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*1,000 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*100 U*
Xylenes	µg/L	**392**	**265**	**152**	**150**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**3780**	**2630**	**3,870**	**5,800**
Total Volatile Organics	µg/L	**5,144**	**3,387**	**4,245**	**6,431**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO24-PZM007			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**4.8**	**14.4**	**9**	**41.4**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	*1 U*	**2.6**	**2.9**	**1.8**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	**1.3**	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	**0.35**	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	**1.1**
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	**0.78**	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**1.6**	**6.8**	**8.6**	**8.8**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	**1.7**	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**1.3**	**2.9**	**2.5**	**2.1**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	**1.5**	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**3**	**9.3**	**11.5**	**10.9**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**383**	**2,090**	**3,860**	**4,220**
Total Volatile Organics	µg/L	**394**	**2,129**	**3,897**	**4,286**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO26-PZM007			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**8.8**	*10 U*	**2.9**	**5.7**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**218**	**281**	**205**	**276**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**7.7**	**8.6**	**10.9**	**12.4**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	**1.6**	*1 U*	*1 U*
Styrene	µg/L	**42.5**	**56.2**	**57.5**	**63.6**
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**106**	**153**	**130**	**142**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**170**	**205**	**236**	**259**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**1,410**	**2020**	**3,580**	**3,720**
Total Volatile Organics	µg/L	**1,963**	**2,725**	**4,222**	**4,479**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO55-PZM000			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**8.9**	**6.3**	**6.9**	**31.6**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	*1 U*	*1 U*	**38**	*1 U*
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	**1.1**
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	*1 U*	*1 U*	**1.7**	*1 U*
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	**0.88**	*1 U*
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**1.2**	*1 U*	**8.6**	*1 U*
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**3.3**	*3 U*	**23.7**	*3 U*
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**2**	*2 U*	**141**	*2 U*
Total Volatile Organics	µg/L	**15.4**	**6.30**	**221**	**33**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO56-PZP001			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromo-3-chloropropane	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dichlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
2-Butanone (MEK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
2-Hexanone	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Acetone	µg/L	**18.9**	**29.2**	**18**	**65**
Acrylonitrile	µg/L	*20 U*	*20 U*	*20 U*	*20 U*
Benzene	µg/L	**346**	**319**	**192**	**203**
Bromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromodichloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromoform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Bromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon disulfide	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Carbon tetrachloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chlorobenzene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloroform	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Chloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
cis-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	**1.4**	*5 U*
cis-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromochloromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Dibromomethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Ethylbenzene	µg/L	**9.6**	**12.8**	**8.5**	**8.8**
Iodomethane	µg/L	*250 U*	*250 U*	*250 U*	*250 U*
Methyl tert-butyl ether (MTBE)	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Styrene	µg/L	**43.2**	**46**	**34.6**	**43.3**
Tetrachloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	µg/L	**169**	**177**	**18.3**	**45.7**
trans-1,2-Dichloroethene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,4-Dichloro-2-butene	µg/L	*25 U*	*25 U*	*25 U*	*25 U*
Trichloroethene	µg/L	*5 U*	*5 U*	**2.3**	*5 U*
Trichlorofluoromethane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl Acetate	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Vinyl chloride	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	µg/L	**219**	**266**	**190**	**182**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**1,760**	**2,800**	**1,870**	**3,290**
Total Volatile Organics	µg/L	**2,566**	**3,650**	**2,335**	**3,838**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO57-PZP002			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**3.3**	**9.1**	**4.1**	**35.8**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	**1.9**	**2.4**	*1 U*	**0.94**
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	**0.98**
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	*3 U*	*3 U*	*3 U*	*3 U*
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	*2 U*	*2 U*	**0.93**	*2 U*
Total Volatile Organics	µg/L	**5.20**	**11.5**	**5.03**	**38**

Notes:

Bold = Analyte Detected

NS = Not Sampled

µg/L = Micrograms per liter

U = Analyte not detected above reporting limit

Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO58-PZM001			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**3.2**	**8.3**	**3.4**	**3.1**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**98.7**	**185**	**41.4**	**195**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	**0.26**	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**5.4**	**9.1**	**2.4**	**9.2**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	**11.5**	**28.6**	**2.8**	**22.3**
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**34.5**	**59.9**	**13.3**	**41.5**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	**0.52**	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**83.5**	**155**	**42.4**	**149**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**572**	**1,540**	**681**	**2,140**
Total Volatile Organics	µg/L	**809**	**1,986**	**787**	**2,560**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO59-PZP002			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**4.6**	**8.6**	**4**	**30.4**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	*1 U*	*1 U*	**0.61**	**17.5**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	**0.65**
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	**0.78**
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	*1 U*	*1 U*	*1 U*	**1.3**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	*1 U*	*1 U*	*1 U*	**0.63**
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	*1 U*	*1 U*	**0.88**	**2.5**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	*3 U*	*3 U*	**3.4**	**12.6**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**7**	*2 U*	*2 U*	**94.5**
Total Volatile Organics	µg/L	**11.9**	**8.60**	**8.89**	**161**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C5-5
Cell 5 Groundwater Analytical Results

Sample ID		CO60-PZP001			
Quarter		Q1	Q2	Q3	Q4
Event Date		3/1/2018	6/1/2018	9/1/2018	12/1/2018
Volatile Organic Compounds	**Units**				
1,1,1,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dibromo-3-chloropropane	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dichlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
2-Butanone (MEK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	µg/L	**7.9**	**13.3**	**8.9**	**6.5**
Acrylonitrile	µg/L	*4 U*	*4 U*	*4 U*	*4 U*
Benzene	µg/L	**166**	**400**	**172**	**218**
Bromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromodichloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	µg/L	*1 U*	*1 U*	*1 U*	**0.56**
Chloroethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Dibromomethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Ethylbenzene	µg/L	**3.1**	**8**	**7.2**	**7.8**
Iodomethane	µg/L	*50 U*	*50 U*	*50 U*	*50 U*
Methyl tert-butyl ether (MTBE)	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Styrene	µg/L	**15.9**	**63.6**	**14.3**	**35.2**
Tetrachloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	µg/L	**40.5**	**156**	**14.1**	**36.1**
trans-1,2-Dichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,4-Dichloro-2-butene	µg/L	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl Acetate	µg/L	*10 U*	*10 U*	*10 U*	*10 U*
Vinyl chloride	µg/L	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	µg/L	**63.1**	**183**	**148**	**167**
Semi-Volatile Organic Compounds	**Units**				
Naphthalene	µg/L	**446**	**1620**	**1700**	**2,470**
Total Volatile Organics	µg/L	**743**	**2,444**	**2,065**	**2,941**

Notes:

Bold = Analyte Detected
NS = Not Sampled
µg/L = Micrograms per liter
U = Analyte not detected above reporting limit
Naphthalene values included in total

Table C6-1
Cell 6 LNAPL Recovery in Former Benzol Processing Area

Method	Recovery Period		Pre-2018		LNAPL Recovered Q1		LNAPL Recovered Q2		LNAPL Recovered Q3		LNAPL Recovered Q4		Cumulative Total LNAPL Recovered	
	Begin	End	(gal)	(lbs)[1]	(gal)	(lbs)[1]	(gal)	(lbs)[1]	(gal)	(lbs)[1]	(gal)	(lbs)[1]	(gal)	(lbs)[1]
Bailing and Skimming	7/23/2010	8/1/2016	15,897	116,493	NR	NR	NR	NR	NR	NR	155	1,136	16,052	117,629
Cell 6 MPE System	10/1/2016	On-going	2,646	19,390	28	205	318	2,330	1,000 [a]	7,328	0	0	3,992	29,253
	Total Recovery		**18,543**	**135,883**	**28**	**205**	**318**	**2,330**	**1,000**	**7,328**	**155**	**1,136**	**20,044**	**146,882**

Notes:

NR=Not Recorded; Q4 amount represents the total annual recovery amount

[1] Weight is calculated based on average BP-MW-05 and BP-MW-08 oil density of 0.878 grams per cubic centimeter, measured by EA (2009) by ASTM Method D1481 .

[a] Value for Q3 2018 is estimated.

APPENDIX A

2018 Field Records

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	CO102-PZMXXX	Date:	3/15/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	N/A	QED Controller Settings:	—
Depth to Water (ft):	13.06	Flow Rate (mL/min)	182
Product Thickness (ft):	N/A	Length of time Purged (min)	20
Depth to Bottom (ft):	19.34	Condition of Pad/Cover:	Pad covered by slag / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1248	0.0	13.06	14.1	11.72	1.885	1.60	-50.3		
1253	0.24 (1307)	~~13.07~~	12.5	11.77	1.9616	1.29	-56.1		
1258	0.47	13.07	11.9	11.80	1.974	1.14	-60.1		
1303	0.71	13.07	12.2	11.80	1.957	0.96	-64.1		
1308	0.96	13.08	12.1	11.81	1.965	0.87	-65.7		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO102-PZMXXX	1320	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	C0103-PZMXXX	Date:	3/15/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.64	Flow Rate (mL/min)	155
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	20.54	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1120	0.0	14.64	13.4	12.13	3.625	0.98	-87.5		
1125	0.20	13.74	11.0	12.20	3.613	0.99	-83.3		
1130	0.42	13.74	10.7	12.22	3.595	0.95	-79.8		
1135	0.63	13.74	10.6	12.23	3.411	0.86	-76.5		
1140	0.83	13.74	10.7	12.23	3.344	0.86	-76.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0103-PZMXXX	~~1145~~ 1150	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LKP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: Cokeoven 1st Q 2018 GW	Project Number: 170384M-12
Well Number: C0104-PZMXXX	Date: 3/15/18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 13.54	Flow Rate (mL/min) 144
Product Thickness (ft): NA	Length of time Purged (min) 30
Depth to Bottom (ft): 19.18	Condition of Pad/Cover: Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1028	0.0	13.54	12.1	6.79	8.071	6.85	-95.8		
1033	0.20	14.12	10.5	9.35	8.330	6.71	-76.2		
1038	0.41	14.37	10.5	9.42	8.350	6.71	-57.4		
1043	0.59	14.40	10.6	9.42	8.353	6.71	-45.4		
1048	0.76	14.41	10.3	9.43	8.194	6.54	-36.1		
1053	0.94	14.41	10.0	9.35	7.791	6.31	-28.6		
1058	1.13	14.42	10.1	9.31	7.543	6.12	-19.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0104-PZMXXX	1100	Weight TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: Coke Oven 1st Q 2018 GW	Project Number: 170384M +1-2
Well Number: C030-PZM015	Date: 3/14/18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 12.15	Flow Rate (mL/min) 174
Product Thickness (ft): NA	Length of time Purged (min) 20
Depth to Bottom (ft): 27.64	Condition of Pad/Cover: None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1442	0.0	12.15	10.2	12.07	2.559	2.25	-192.0		
1447	0.23	12.14	7.9	12.31	2.962	1.20	-223.4		
1452	0.46	12.14	7.2	12.33	3.006	1.02	-233.1		
1457	0.69	12.14	5.8	12.39	3.068	1.00	-230.6		
1502	0.92	12.14	6.0	12.39	3.053	0.98	-204.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM015	1510	~~Na/HX~~ TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	C030-PZM060	Date:	3/15/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.19	Flow Rate (mL/min)	159
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	73.09	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
949	0.0	14.19	11.4	6.37	7.859	2.14	-10.7		
954	0.21	14.25	8.6	6.81	8.790	1.42	-89.3		
959	0.43	14.23	8.0	6.94	8.820	1.31	-103.7		
1004	0.63	14.24	7.9	7.01	8.920	1.19	-113.3		
1009	0.84	14.24	8.4	7.06	8.959	1.03	-121.7		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM060	1015	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COKE OVEN 1STQ 2018 GW	Project Number:	170384M-1-2
Well Number:	CO101-PZMXXX	Date:	~~3/15/18~~ 3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.94	Flow Rate (mL/min)	
Product Thickness (ft):	NA	Length of time Purged (min)	
Depth to Bottom (ft):	12.70	Condition of Pad/Cover:	NONE / GOOD

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments

NOT SAMPLED

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
Blocked		TCL-VOCs	3 - 40 mL VOA	HCl	N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384 M-1-2
Well Number:	C042-PZM004	Date:	3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.78	Flow Rate (mL/min)	170
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	16.35	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1206	0.0	6.78	10.8	8.21	1.562	1.07	-110.8		
1211	0.24	7.11	10.8	8.16	1.545	0.91	-107.8		
1216	0.47	7.18	10.4	8.15	1.548	0.84	-105.9		
1221	0.67	7.20	10.5	8.15	1.532	0.82	-104.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C042-PZM004	1225	NaOH TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____ gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	C018-PZM006	Date:	3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.99	Flow Rate (mL/min)	132
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19.98	Condition of Pad/Cover:	none / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1359	0.0	11.99	14.6	6.60	2.221	0.88	-86.0		
1404	0.22	13.12	11.3	6.51	2.179	0.69	-80.4		
1409	0.37	12.92	11.1	6.48	2.155	0.62	-78.8		
1414	0.52	12.57	9.6	6.47	2.111	0.68	-77.7		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C018-PZM006	1420	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke	Project Number:	170384M-1-2
Well Number:	C093-PZMXXX	Date:	3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	10.44	Flow Rate (mL/min)	174
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	19.49	Condition of Pad/Cover:	/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1303	0.0	10.44	9.9	9.27	1.101	1.24	-163.7		
1308	0.25	10.53	9.2	9.89	1.105	0.69	-204.9		
1313	0.49	10.56	8.3	9.79	1.103	0.61	-212.2		
1318	0.72	10.56	8.5	10.09	1.124	0.55	-222.0		
1323	0.95	10.57	8.3	9.86	1.116	0.54	-225.3		
1328	1.17	10.57	8.4	10.10	1.116	0.52	-234.9		
1333	1.39	10.58	8.0	10.18	1.133	0.50	-242.1		
1338	1.61	10.58	7.2	10.24	1.129	0.52	-246.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C093-PZMXXX	1340	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384.M-1-2
Well Number:	CO40-PZM008	Date:	3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.82	Flow Rate (mL/min)	148
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	17.60	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1124	0.0	6.82	7.5	8.17	3.302	1.16	-144.6		
1129	0.25	7.02	6.9	8.00	3.315	0.98	-140.1		
1134	0.47	7.15	6.3	7.88	3.336	0.87	-133.8		
1139	0.68	7.20	6.4	7.83	3.331	0.79	-130.5		
1144	0.78	7.21	7.0	7.80	3.339	0.73	-128.7		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO40-PZM008	1150	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q2018 GW	Project Number:	170384M-1-2
Well Number:	C027-PZM046	Date:	3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	8.59	Flow Rate (mL/min)	~~157~~ 163
Product Thickness (ft):	NA	Length of time Purged (min)	~~13~~ 35
Depth to Bottom (ft):	51.11	Condition of Pad/Cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1031	0.0	8.59	11.1	9.41	1.248	~~1~~.43	732.2		
1036	0.23	8.61	10.9	9.07	1.380	0.78	-165.3		
1041	0.46	8.62	10.6	9.05	1.371	0.66	-186.7		
1046	0.69	8.62	10.2	9.04	1.357	0.57	-227.9		
1051	0.89	8.62	9.5	9.07	1.230	0.53	-249.9		
1056	~~1~~.10	8.62	9.4	9.05	1.230	0.51	-266.6		
1101	1.30	8.62	9.5	~~8~~.93	1.249	0.50	-271.4		
1106	1.50	8.62	9.7	8.91	1.260	0.48	-278.7		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C027-PZM046	1110	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384m-1-2
Well Number:	C038-PZM043	Date:	3/13/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	7.84	Flow Rate (mL/min)	132
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	49.60	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1346	0.10	7.84	11.6	8.63	1.586	1.45	-152.3		
1351	0.22	8.16	10.3	8.33	1.476	1.16	-147.9		
1356	0.39	8.16	9.8	8.08	1.454	0.91	-141.9		
~~1400~~ 1401	0.52	8.18	10.2	7.99	1.454	0.80	-140.9		
1406	0.70	8.19	10.2	7.91	1.456	0.79	-140.9		
~~1411~~									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM043	1410	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: UP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft
_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st @ 2018 GW	Project Number:	170384M-1-2
Well Number:	C037-PZM038	Date:	3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.45	Flow Rate (mL/min)	182
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	49.42	Condition of Pad/Cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
920	0.10	12.45	10.7	11.80	2.181	1.14	-45.7		
925	0.26	12.51	7.7	11.77	2.283	0.96	-62.4		
930	0.50	12.53	6.9	11.78	2.307	0.89	-72.9		
935	0.72	12.54	6.9	11.79	2.298	0.79	-82.3		
940	0.95	12.54	7.0	11.83	2.321	0.70	-91.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C037PZM038	945	NaOH TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1STQ 2018 GW	Project Number:	170384 m-1-2
Well Number:	C027-PZM012	Date:	3/14/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	4.54	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17.46	Condition of Pad/Cover:	None/ OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1000	0.0	4.54	9.3	11.42	1.970	1.28	-108.3		
1005	0.2	4.54	9.2	11.44	1.965	0.91	-114.6		
1010	0.4	4.54	9.1	11.47	1.960	0.74	-123.9		
1015	0.6	4.54	9.3	11.50	1.943	0.67	-130.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C027-PZM012	1020	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 BW	Project Number:	170384M-1-2
Well Number:	C038-PZM006	Date:	3/13/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.83	Flow Rate (mL/min)	136
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	15.63	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
		6.83							
1257	0.0	~~6.83~~	11.8	10.40	2.822	0.86	-57.6		
1302	0.28	6.90	9.0	10.42	2.805	0.77	-74.6		
1307	0.53	6.90	9.3	10.41	2.791	0.69	-92.0		
1312	0.70	6.90	9.1	10.40	2.794	0.58	-111.3		
1317	0.87	6.90	8.8	10.40	2.789	0.54	-125.9		
1322	1.00	6.90	9.3	10.40	2.779	0.58	-137.4		
1327	1.13	6.90	9.2	10.40	2.785	0.50	-146.8		
1332	1.27	6.90	9.4	10.39	2.779	0.49	-156.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM006	1334	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke oven 1st @ 2018 GW	Project Number:	170384M-L-2
Well Number:	C039-PZM007	Date:	3/13/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.28	Flow Rate (mL/min)	110
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	7.95	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1430	0.0	6.28	10.0	10.78	3.893	1.43	-145.3		
1435	0.15	6.37	7.8	11.03	3.985	1.03	-155.3		
1440	0.30	6.54	8.2	11.06	3.924	0.80	-156.0		
1445	0.44	6.58	8.5	11.06	3.969	0.69	-158.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039PZM007	1450	Naphth TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q2018 GW	Project Number:	170384m-1-2
Well Number:	C039-PZM042	Date:	3/13/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	8.78	Flow Rate (mL/min)	110
Product Thickness (ft):	N/A	Length of time Purged (min)	15
Depth to Bottom (ft):	46.00	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1455	0.0	8.78	11.2	11.98	3.640	1.94	-161.4		
1500	0.24	8.79	10.4	12.10	3.731	0.84	-196.6		
1505	0.47	8.79	10.0	12.13	3.730	0.65	-213.9		
1510	0.69	8.79	10.2	12.13	3.737	0.59	-223.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	1515	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____ gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018	Project Number:	170384m-1
Well Number:	C024-pzm007	Date:	3/9/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.61 TOC	Flow Rate (mL/min)	167
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	22.15 TOC	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
908	0.10	14.72	9.2	7.07	1.213	1.58	194.7		
913	0.2	14.83	8.6	8.28	1.221	1.16	190.5		
918	0.4	14.83	8.2	8.80	1.268	0.98	190.3		
923	0.6	14.83	8.4	9.08	1.334	0.85	188.2		
928	0.85	14.93	8.5	9.15	1.336	0.82	185.7		
933	1.10	14.83	8.9	9.17	1.349	0.74	180.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C024-pzm007	935	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke oven 1st Q 2018	Project Number:	170384M-1
Well Number:	C023-PZM008	Date:	3/9/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.93	Flow Rate (mL/min)	174
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	22.12	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
950	0.0	14.93	11.0	11.23	2.011	1.60	147.8		
955	0.25	14.92	10.5	11.49	2.185	0.84	102.7		
1000	0.50	14.92	10.0	11.53	2.205	0.70	83.4		
1005	0.70	14.92	9.2	11.55	2.201	0.63	70.1		
1010	0.90	14.93	9.5	11.54	2.213	0.60	61.8		
1015	1.15	14.93	9.6	11.52	2.190	0.56	53.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C023-PZM008	1020	~~NaN~~ TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: Coke Oven 1st Q 2018 GW	Project Number: 170394M-1-2
Well Number: C036-PZMW043	Date: 3/13/18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 8.02	Flow Rate (mL/min) 132
Product Thickness (ft): NA	Length of time Purged (min) 25
Depth to Bottom (ft): 51.95	Condition of Pad/Cover: None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1141	0.0	8.02	11.4	11.97	2.863	1.51	-46.6		
1146	0.25	8.36	8.8	12.17	3.326	0.89	-83.9		
1151	0.45	8.35	7.2	12.26	3.401	0.83	-105.5		
1156	0.61	8.34	7.0	12.27	3.376	0.83	-110.0		
1201	0.74	8.34	6.4	12.29	3.380	0.84	-119.8		
1206	0.88	8.34	6.5	12.29	3.381	0.82	-128.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZMW043	1215	NaOH TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LVP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	CO02-PZM006	Date:	3/13/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	N/A	QED Controller Settings:	—
Depth to Water (ft):	~~14.73~~ 14.58	Flow Rate (mL/min)	
Product Thickness (ft):	NA	Length of time Purged (min)	
Depth to Bottom (ft):	~~18.92~~ 18.86	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
945	0.0	14.58	14.2	7.03	2.545	1.76	209.3		
950	0.2	14.63	12.0	7.32	2.399	0.75	205.3		
955	0.4	14.65	10.9	7.36	2.373	0.66	204.1		
1000	0.6	14.66	9.8	7.38	2.311	0.63	204.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO02-PZM006	1005	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	C026-PZM007	Date:	3/12/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.02	Flow Rate (mL/min)	144
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	19.34	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1019	0.0	12.02	10.1	9.64	1.264	5.20	172.6		
1024	0.22	13.02	10.2	10.12	1.274	2.01	154.7		
1029	0.45	13.16	10.0	10.61	1.285	1.72	143.4		
1034	0.60	13.16	9.0	10.99	1.314	1.64	140.7		
1039	0.78	13.16	8.3	11.53	1.406	1.52	137.1		
1044	0.96	13.16	8.6	11.62	1.457	1.40	134.6		
1049	1.14	13.16	8.5	11.69	1.491	1.21	132.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C026-PZM007	1055	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: Coke Oven 1st Q 2018 GW	Project Number: 170384M-1-2
Well Number: C041-PZM001	Date: 3/13/18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 12.47	Flow Rate (mL/min) 163
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 16.00	Condition of Pad/Cover: Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1013	0.0	12.47	9.1	7.71	0.928	1.64	194.4		
1018	0.22	12.52	7.5	7.63	0.879	1.20	193.8		
1023	0.45	12.53	7.6	7.61	0.871	1.08	192.4		
1028	0.65	12.53	7.6	7.61	0.862	1.03	191.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	1030	Depth TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LL

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: Coke Oven 1st Q 2019 GW	Project Number: 170384-M-1-2
Well Number: CO36-PZM008	Date: 3/13/19
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 7.48	Flow Rate (mL/min) 132
Product Thickness (ft): NA	Length of time Purged (min) 20
Depth to Bottom (ft): 14.08	Condition of Pad/Cover: Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1113	0.0	7.48	9.1	11.90	1.393	1.89	-90.3		
1118	0.24	8.08	7.9	11.90	1.414	1.10	-73.4		
1123	0.40	8.25	7.6	11.90	1.415	1.21	-61.8		
1128	0.55	8.28	7.2	11.92	1.435	1.20	-56.4		
1133	0.70	8.29	7.3	11.92	1.446	1.29	-53.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO36-PZM008	1135	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft
_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	C041-PZM036	Date:	3/13/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.09	Flow Rate (mL/min)	156
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	50.18	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1035	0.0	14.09	10.2	11.30	1.443	1.28	167.4		
1040	0.21	14.13	10.1	11.41	1.228	0.82	113.0		
1045	0.41	14.14	9.0	11.47	1.844	0.69	-4.5		
1050	0.62	14.14	8.5	11.50	1.870	0.65	-10.8		
1055	0.83	14.14	8.7	11.52	1.880	0.64	-13.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	1100	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LCP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018	Project Number:	170384m-1-2
Well Number:	C056-PZP001	Date:	3/9/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.13	Flow Rate (mL/min)	170
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	19.18	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1315	0.0	15.13	11.2	11.81	2.406	1.47	43.3		
1320	0.2	15.13	11.6	11.79	2.403	0.95	40.9		
1325	0.45	15.13	11.0	11.81	2.402	0.78	39.0		
1330	0.65	15.13	11.4	11.79	2.389	0.69	37.2		
1335	0.90	15.13	11.2	11.79	2.398	0.65	35.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C056-PZP001	1345	Naph-TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: Coke Oven 1st Q 2018 GW	Project Number: 170384M-1-2
Well Number: C057-PZP002	Date: 3/12/18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 15.72	Flow Rate (mL/min) 151
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 17.80	Condition of Pad/Cover: None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1157	0.0	15.72	9.6	12.19	1.681	9.40	120.7		
1202	0.25	16.00	8.4	12.31	1.738	9.24	121.2		
1207	0.45	16.25	8.1	12.36	1.778	9.24	119.7		
1212	0.60	16.34	7.5	12.40	1.782	9.12	119.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C057-PZP002	1218	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LVP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke oven GW 1st Q2018	Project Number:	1703814M-1-2
Well Number:	C060-PZP001	Date:	3/12/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.16	Flow Rate (mL/min)	182
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	18.93	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
942	0.0	15.16	8.9	9.79	1.530	2.67	273.1		
947	0.24	15.28	8.2	10.69	1.485	1.59	241.2		
952	0.48	15.29	7.7	10.82	1.500	1.39	226.2		
957	0.72	15.30	8.3	10.84	1.508	1.27	167.5		
1002	0.95	15.30	7.9	10.97	1.565	1.11	163.7		
1007	1.20	15.30	7.5	11.03	1.591	0.99	164.6		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C060-PZP001	1012	NaphTCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018 GW	Project Number:	170384M-1-2
Well Number:	C058-PZM001	Date:	3/12/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.70	Flow Rate (mL/min)	114
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	19.26	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1111	0.0	13.70	9.5	11.86	1.419	2.80	142.2		
1116	0.15	13.78	6.6	11.98	1.554	1.68	148.7		
1121	0.30	13.79	6.6	11.98	1.562	1.19	149.7		
1126	0.45	13.79	6.7	11.98	1.565	1.07	149.3		
1131	0.60	13.79	6.5	11.99	1.562	1.00	148.6		
1136	0.75	13.79	6.9	12.04	1.560	0.91	145.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C058-PZM001	1140	Naph-TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018	Project Number:	120384m-1-2
Well Number:	~~C055-PZP001~~	Date:	3/9/18
Well Diameter (in):	2 C055-PZP000	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	~~14.01~~ 14.33	Flow Rate (mL/min)	85
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	17.01	Condition of Pad/Cover:	Good/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1223	0.0	14.87	10.1	12.44	3.028	5.51	79.5		
1228	0.15	15.40	9.6	12.46	3.163	3.93	60.5		
1233	0.25	15.67	9.9	12.46	3.163	3.84	37.8		
1235	0.35	15.83	10.1	12.46	3.161	3.77	28.8		
1240	0.45	16.04	9.2	12.50	3.179	3.82	22.5		
					* will purge dry if flow rate is higher				

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
~~C055-PZP001~~ C055-PZP000	1245	Naphth TCL-VOCs.	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	N
		TCL-SVOCs	2- 1 L Amber	none	N
		Oil & Grease	2- 1 L Amber	HCl	N
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	N
		Total Cyanide	1 - 250 mL Plastic	NaOH	N
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	N
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	N
		PCB	2 - 1 L Amber	None	N
Matrix Spike					N
Duplicate					N

Sampled By: LL

Comments: VOC + Naphth. only

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	Coke Oven 1st Q 2018	Project Number:	170394m - 1-2
Well Number:	C059 - PZP002	Date:	3/9/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.95	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19.00	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1045	0.0	15.95	9.3	11.39	2.030	5.69	65.3		
1050	0.3	15.92	9.3	11.39	2.027	5.67	65.8		
1055	0.55	15.92	8.1	11.44	2.040	5.66	66.7		
1100	0.75	15.92	7.9	11.45	2039	5.61	70.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C059-PZP002	1110	Naph TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM GW	Project Number: 17038.4M
Well Number: C038-PZM006	Date: 6-4-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 5.81	Flow Rate (mL/min) 220
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 15.72	Condition of Pad/Cover: None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1047	0.0	5.81	17.0	10.37	3.245	2.86	-215.1		
1052	0.28	5.81	17.0	10.29	3.226	1.20	-248.8		
1057	0.58	5.82	17.2	10.21	3.196	0.97	-256.2		
1102	0.87	5.82	17.3	10.19	3.174	0.85	-264.1		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM006	1110	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LVP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA JM GW	Project Number:	170384M-1
Well Number:	C036-PZM043	Date:	6-4-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.82	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	52.07	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
953	0.0	6.82	16.1	11.55	2.878	3.52	-117.4		
958	0.3	6.82	16.1	11.57	2.909	2.46	-150.3		
1003	0.6	6.83	16.1	11.58	2.914	2.38	-155.5		
1008	0.9	6.83	16.1	11.60	2.920	2.33	-159.6		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM043	1015	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LP

Comments: Napth + VOC

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	C030-PZMO5	Date:	6/7/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	10.95	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	27.84	Condition of Pad/Cover:	none / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1508	0.0	10.95	18.3	12.06	2.604	1.93	-75.9		
1513	0.3	10.99	20.3	12.04	2.684	1.17	-91.4		
1518	0.6	11.00	20.3	12.05	2.828	1.06	-97.9		
1523	0.9	11.00	20.2	12.09	2.872	0.99	-105.3		
1528	1.20	11.00	20.6	12.08	2856	0.91	-111.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZMO5	1535	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	C059-PZM002	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.93	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19	Condition of Pad/Cover:	none / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1157	0.0	14.93	24.0	11.02	2.807	5.03	-29.3		
1202	0.3	14.93	21.5	11.17	2.579	1.42	-23.0		
1207	0.6	14.94	22.2	11.17	2.579	1.22	-21.2		
1212	0.9	14.93	22.7	11.25	2.565	1.17	-23.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C059-PZM002	1215	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA JIM GW	Project Number: 1703864M-1
Well Number: C060-PZP001	Date: 6-5-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 14.06	Flow Rate (mL/min) 227
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 19	Condition of Pad/Cover: None / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1602	0.0	14.06	23.5	11.10	2.518	4.55	0.3		
1607	0.3	14.06	25.8	10.95	2.497	1.35	0.2		
1612	0.6	14.06	26.5	10.93	2.501	1.17	-1.3		
1617	0.9	14.07	27.2	10.89	2.491	1.09	-2.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C060-PZP001	1625	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	C055-PZM000	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.31	Flow Rate (mL/min)	114
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1303	0.0	13.31	23.4	11.95	2.590	4.97	-64.4		
1308	0.15	13.39	24.3	11.93	2.573	4.07	-54.0		
1313	0.30	13.47	24.5	11.92	2.571	4.03	-52.5		
1318	0.45	13.21	23.9	11.93	2.550	4.07	-46.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C055-PZM000	1325	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLB

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA FM 6W	Project Number:	170384M-1
Well Number:	C057-PZP002	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.81	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17.97	Condition of Pad/Cover:	NONE/GOOD

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1525	0.0	14.81	23.7	12.01	2.788	5.68	-40.6		
1530	0.3	14.82	24.2	12.00	2.687	5.40	-34.0		
1535	0.6	14.82	24.3	12.00	2.621	5.28	-29.5		
1540	0.9	14.83	24.8	11.99	2.597	5.16	-27.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C057-PZP002	1545	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: CP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M
Well Number:	COSB-PZM001	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):		Flow Rate (mL/min)	220
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19.30	Condition of Pad/Cover:	None / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1435	0.0	12.69	21.6	11.84	2.581	2.75	-71.6		
1440	0.3	12.74	23.5	11.75	2.611	1.28	-67.4		
1445	0.57	12.74	24.3	11.73	2.611	1.02	-66.8		
1450	0.87	12.74	24.4	11.73	2.627	0.89	-68.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COSB-PZM001	1455	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LCD

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA JM GW	Project Number:	170384M-1
Well Number:	CO26-PZM007	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	10.81	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	19.37	Condition of Pad/Cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1346	0.0	10.81	20.7	9.96	0.419	4.99	15.3		
1351	0.3	10.82	20.9	9.57	0.401	2.99	27.0		
1356	0.6	10.83	20.9	9.47	0.396	2.86	28.6		
1401	0.9	10.83	20.9	10.10	0.491	2.65	29.6		
1406	1.20	10.83	20.8	11.13	0.972	2.01	-51.7		
1411	1.50	10.83	21.9	11.33	1.348	1.31	-86.9		
1416	1.80	10.83	22.5	11.45	1.520	1.24	-100.9		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO26-PZM007	1420	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LP

Comments: VOC + Napth * Cond. and ORP not stable

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	120384M-1
Well Number:	C056-PZP001	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.14	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	19	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1226	0.0	14.14	23.3	11.31	2.767	3.83	-23.6		
1231	0.3	14.14	20.6	11.33	2.671	31.12	-56.9		
1236	0.6	14.14	21.0	11.40	2.667	0.80	-75.1		
1241	0.9	14.14	21.3	11.41	2.670	0.83	-84.6		
1246	1.20	14.14	21.5	11.42	2.679	0.77	-92.6		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C056-PZP001	1250	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LCP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA FM GW	Project Number:	170384M-1
Well Number:	CO24-PZM007	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.47	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	22	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1057	0.0	13.47	22.0	8.95	5.005	3.18	86.2		
1102	0.3	13.50	22.7	9.05	5.053	1.37	107.6		
1107	0.6	13.51	23.4	9.04	5.105	1.15	110.4		
1112	0.9	13.51	23.7	9.05	5.162	1.01	113.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO24-PZM007	1115	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA JM GW	Project Number:	170384M
Well Number:	CO42-P2M004	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	5.74	Flow Rate (mL/min)	212
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	16.5	Condition of Pad/Cover:	None/ Mod Veg

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
922	0.0	5.74	22.7	8.23	1.382	1.61	-124.7		
927	0.3	5.75	23.3	8.03	1.384	1.26	-130.7		
932	0.58	5.76	23.8	7.87	1.392	1.03	-123.3		
937	0.87	5.76	24.1	7.78	1.392	0.94	-118.4		
942	1.12	5.76	24.5	7.73	1.390	0.87	-114.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO42-PZM004	950	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: CLP

Comments: VPC + Waph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____ gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM 60	Project Number:	170384M
Well Number:	C037-PZM038	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.38	Flow Rate (mL/min)	204
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	44	Condition of Pad/Cover:	None / mod veg

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
833	0.0	11.38	19.8	11.12	2.094	5.38	-148.8		
838	0.3	11.41	18.9	11.65	2.321	1.26	-242.7		
843	0.6	11.44	18.8	11.65	2.375	1.05	-254.0		
848	0.85	11.46	18.8	11.66	2.419	0.88	-265.4		
853	1.10	11.47	19.0	11.68	2.438	0.80	-274.6		
858	1.35	11.47	19.2	11.70	2.448	0.77	-278.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C037-PZM038	905	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LMP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	703B4M-1-
Well Number:	C041-PZM036	Date:	6-4-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.06	Flow Rate (mL/min)	214
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	51	Condition of Pad/Cover:	Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1438	0.0	12.06	23.3	10.11	2.022	2.04	-251.6		
1443	0.28	12.15	22.6	10.96	2.171	0.70	-300.0		
1448	0.56	12.22	21.7	11.03	2.243	0.61	-307.5		
1453	0.85	12.27	22.2	11.02	2.253	0.54	-312.3		
1458	1.13	12.30	22.0	11.03	2.298	0.52	-321.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	1505	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	C041-PZM001	Date:	6-4-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.32	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	16.03	Condition of Pad/Cover:	Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1358	0.0	11.32	23.5	8.56	0.822	1.93	-138.9		
1403	0.3	11.33	23.6	8.26	0.785	1.06	-127.7		
1408	0.6	11.34	23.6	8.15	0.770	0.95	-120.9		
1413	0.9	11.34	23.2	8.05	0.762	0.90	-112.5		
1418	1.20	11.34	22.9	8.00	0.759	0.88	-107.7		
1423	1.50	11.34	22.8	7.95	0.757	0.82	-102.6		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	1430	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLF

Comments: VOC + Napth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA FM GW	Project Number:	173384M
Well Number:	C039-PZM007	Date:	6-4-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	7.45	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	46.05	Condition of Pad/Cover:	Well OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1320	0.0	7.45	17.5	10.83	4.190	2.83	-236.7		
1325	0.3	7.47	18.8	10.71	4.186	1.16	-250.4		
1330	0.6	7.50	18.3	10.62	4.158	0.93	-255.5		
1335	0.9	7.50	18.2	10.54	4.129	0.82	-258.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM007	1340	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA FM GW	Project Number:	120384M
Well Number:	C039-PZM042	Date:	6-4-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	5.11	Flow Rate (mL/min)	209
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	18.00	Condition of Pad/Cover:	None/ OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1255	0.0	5.11	18.7	11.74	3.873	1.84	-278.4		
1300	0.27	5.13	18.4	11.79	3.939	1.04	-297.7		
1305	0.52	5.15	18.5	11.81	3.951	0.87	-306.2		
1310	0.81	5.15	18.6	11.81	3.966	0.79	-312.5		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	1315	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LCP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA IM GW	Project Number: 170384M
Well Number: C038-PZM043	Date: 6-4-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 6.37	Flow Rate (mL/min) 227
Product Thickness (ft): NA	Length of time Purged (min) 20
Depth to Bottom (ft): 49.55	Condition of Pad/Cover: Now/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1112	0.0	6.37	16.4	8.86	1.664	2.18	-187.6		
1117	0.3	6.37	17.6	8.31	1.649	1.16	-176.3		
1122	0.6	6.37	17.8	8.08	1.649	0.96	-170.6		
1127	0.9	6.37	18.1	7.97	1.643	0.88	-168.8		
1132	1.20	6.37	18.2	7.85	1.633	0.83	-167.3		
~~1137~~									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM043	1145	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: CLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	173846M
Well Number:	C036-PZM008	Date:	6-4-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.33	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	6.82	Condition of Pad/Cover:	Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
915	0.0	6.33	15.8	11.32	2.039	2.33	-42.5		
920	0.3	6.37	15.8	11.49	2.161	1.38	-77.3		
925	0.6	6.38	15.9	11.53	2.215	1.17	-105.8		
930	0.9	6.38	15.9	11.55	2.239	1.05	-130.9		
935	1.20	6.38	16.1	11.56	2.218	0.98	-140.4		
940	1.50	6.38	16.1	11.57	2.201	0.93	-148.7		
945	1.80	6.38	16.2	11.57	2.158	0.90	-156.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM008	950	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLB

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	C030-PZM060	Date:	6/7/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.75	Flow Rate (mL/min)	204
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	73.14	Condition of Pad/Cover:	None/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1540	0.0	12.75	19.8	8.01	6.291	1.76	-43.0		
1545	0.28	12.77	20.0	7.51	6.891	1.15	-93.4		
1550	0.57	12.79	20.3	7.37	7.268	0.91	-111.2		
1555	0.86	12.79	20.2	7.33	7.883	0.83	-126.4		
1600	1.15	12.79	20.2	7.33	8.333	0.79	-135.5		
1605	1.35	12.79	20.3	7.36	9.418	0.73	-155.5		
1610	1.64	12.79	20.7	7.37	9.689	0.70	-163.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM060	1615	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA TM GW	Project Number:	170384m-1
Well Number:	CO101-PZMXX	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	10.90	Flow Rate (mL/min)	—
Product Thickness (ft):	NA	Length of time Purged (min)	—
Depth to Bottom (ft):	12.70	Condition of Pad/Cover:	Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
	Did not sample / Blocked								

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
Blocked ~13'		TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: _____

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	C0102-PZMXXX	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	14.15	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	19.5	Condition of Pad/Cover:	None/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1455	0.0	14.15	22.8	11.73	1.922	2.45	-210.7		
1500	0.3	14.15	22.3	11.74	1.940	1.01	-239.4		
1505	0.6	14.15	22.3	11.75	1.980	0.84	-251.1		
1510	0.9	14.15	22.2	11.77	2.007	0.72	-259.1		
1515	1.20	14.15	21.9	11.78	2.017	0.67	-263.3		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0102-PZMXXX	1525	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	C0103-PZMXXX	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.15	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	20.5	Condition of Pad/Cover:	Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1403	0.0	12.15	25.9	10.26	0.610	4.26	-125.7		
1408	0.3	12.17	21.5	10.42	0.302	2.15	-135.6		
1413	0.6	12.18	21.2	10.40	0.273	1.91	-135.8		
1418	0.9	12.19	21.3	10.38	0.272	1.79	-134.8		
1423	1.20	12.19	21.4	10.29	0.271	1.89	-127.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0103-PZMXXX	1430	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LKP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384m-1
Well Number:	COØ2-PZM006	Date:	6/9/18
Well Diameter (in):	2	One Well Volume (gal):	———
Depth to Product (ft):	NA	QED Controller Settings:	———
Depth to Water (ft):	13.56	Flow Rate (mL/min)	208
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19	Condition of Pad/Cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1033	0.0	13.56	23.2	7.69	1.693	0.98	-156.6		
1038	0.30	13.60	23.4	7.69	1.684	0.70	-169.2		
1043	0.56	13.60	23.7	7.68	1.671	0.59	-177.1		
1048	0.82	13.60	23.5	7.68	1.671	0.55	-186.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COØ2-PZM006	1055	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA Im GW	Project Number:	1703B4m-1
Well Number:	C0104-PZMXXX	Date:	6/3/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.17	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	20	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1318	0.0	12.17	20.8	9.83	5.353	5.78	-171.0		
1323	0.3	12.20	20.2	9.73	5.313	7.03	-139.1		
1328	0.6	12.20	20.1	9.71	5.317	7.18	-124.4		
1333	0.9	12.20	20.1	9.68	5.303	7.42	-109.2		
1338	1.20	12.20	20.1	9.69	5.287	7.37	-94.6		
1343	1.50	12.20	20.2	9.69	5.284	7.36	-85.3		
1348	1.80	12.20	20.3	9.72	5.283	7.37	-76.0		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0104-PZMXXX	1350	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LH

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384m-1
Well Number:	C018-PZM006	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.16	Flow Rate (mL/min)	223
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):		Condition of Pad/Cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1117	0.0	11.16	22.0	6.34	1.808	1.00	-89.3		
1117	0.3	11.17	22.3	6.31	1.800	0.73	-86.0		
1122	0.59	11.18	22.2	6.31	1.792	0.65	-84.6		
1127	0.88	11.18	22.6	6.32	1.790	0.58	-86.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C018-PZM006	1135	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IRM GW	Project Number:	170384M-1
Well Number:	C027-PZM046	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	~
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.31	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	51'	Condition of Pad/Cover:	none / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
821	0.0	6.31	17.0	8.32	1.143	1.48	-192.5		
826	0.3	6.32	17.3	8.39	1.108	0.99	-233.1		
831	0.6	6.32	17.6	8.46	1.087	0.78	-271.5		
836	0.9	6.32	17.6	8.49	1.084	0.67	-295.5		
841	1.20	6.32	17.6	8.50	1.082	0.64	-306.6		
846	1.50	6.32	17.6	8.53	1.083	0.60	-315.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C027PZM046	850	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA Jm GW	Project Number:	170384M-1
Well Number:	CO27-PZM012	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	3.97	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17.5	Condition of Pad/Cover:	Normal Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
857	0.0	3.97	17.5	10.23	2.209	1.22	-311.3		
902	0.3	3.97	17.7	10.26	2.220	0.87	-317.6		
907	0.6	3.97	17.8	10.29	2.234	0.68	-320.3		
912	0.9	3.98	17.8	10.33	2.241	0.61	-323.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO27-PZM012	915	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA Ion GW	Project Number:	170384m-1
Well Number:	CO40-PZM008	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.27	Flow Rate (mL/min)	208
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	18	Condition of Pad/Cover:	None/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
934	0.0	6.27	20.3	7.88	2.237	1.39	-183.8		
939	0.3	6.31	20.0	7.74	2.254	0.93	-175.0		
944	0.56	6.32	19.9	7.70	2.258	0.81	-172.0		
949	0.83	6.32	20.1	7.67	2.274	0.75	-166.2		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO40-PZM008	955	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: HP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA FM GW	Project Number:	170384M-1
Well Number:	C093-PZMXXX	Date:	6/8/18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	9.52	Flow Rate (mL/min)	197
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	~~NA~~ 20	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1232	0.0	9.52	20.4	8.47	0.743	1.88	-216.1		
1237	0.3	9.60	22.5	8.53	0.763	0.72	-298.8		
1242	0.55	9.61	22.9	8.56	0.765	0.63	-310.4		
1247	0.80	9.61	22.9	8.59	0.790	0.60	-322.9		
1252	1.05	9.61	22.9	8.79	0.800	0.54	-338.0		
1257	1.30	9.61	22.7	8.79	0.817	0.53	-344.6		
1302	1.55	9.61	22.6	8.79	0.822	0.49	-351.8		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C093-PZMXXX	1305	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	170384M-1
Well Number:	CO 23 - PZM008	Date:	6-5-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.86	Flow Rate (mL/min)	223
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	22	Condition of Pad/Cover:	Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1126	0.0	13.86	25.3	10.33	5.232	5.19	46.8		
1131	0.3	13.89	20.9	10.84	5.166	1.30	10.0		
1136	0.6	13.91	21.1	10.85	5.256	1.00	-1.9		
1141	0.88	13.91	20.8	10.87	5.309	0.88	-11.6		
1146	1.18	13.91	20.2	10.89	5.307	0.81	-20.4		

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO23-PZM008	1150	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LCP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A — Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B — Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384M-1

Section C — Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D — Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/6/18	—		2				2							X		
2	C072-PZM005	WT	G				1045		3				3						X			
3	C071-PZM006	WT	G				1055		3				3						X			
4	C070-PZM005	WT	G				1117		3				3						X			
5	C069-PZM005	WT	G				1134		3				3						X			
6	C068-PZM005	WT	G				1158		3				3						X			
7	C067-PZM006	WT	G				1235		3				3						X			
8	C066-PZM005	WT	G				1302		3				3						X			
9	C065-PZM005	WT	G				1320		3				3						X			
10	C064-PZM006	WT	G				1344		3				3						X			
11	C063-PZM007	WT	G				1420		3				3						X			
12									32													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No pkgs	[signature]	6/6/18	1500	A. Banninghove / PACE	6/6/18	1540	
	A. Banninghove / PACE	6/6/18					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/6/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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Page: | of

Section A Required Client Information:
Company: EnviroAnalytics Group
Address: 1600 Sparrows Point Blvd, Suite B2
Sparrows Point, MD 21219
Mail To: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 | Fax:
Requested Due Date/TAT: 5 Day

Section B Required Project Information:
Report To: James Calenda
Copy To: Stewart Kabis
Purchase Order No.: EAG-SPT-6989
Project Name: COA IM GW Sampling
Project Number: 170384M-1

Section C Invoice Information:
Attention: Laura Sargent
Company Name: EnviroAnalytics Group
Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager: Samantha Bayura
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MD

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	Section D SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/6/18	—		2				2						X		
2	C072-PZM005	WT	G				1045		3				3						X		
3	C071-PZM006	WT	G				1055		3				3						X		
4	C070-PZM005	WT	G				1117		3				3						X		
5	C069-PZM005	WT	G				1134		3				3						X		
6	C068-PZM005	WT	G				1158		3				3						X		
7	C067-PZM006	WT	G				1235		3				3						X		
8	C066-PZM005	WT	G				1302		3				3						X		
9	C065-PZM005	WT	G				1320		3				3						X		
10	C064-PZM006	WT	G				1344		3				3						X		
11	C063-PZM007	WT	G				1420		3				3						X		
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No pkgs	Lisa Perron	6/6/18	1500				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perron
SIGNATURE of SAMPLER: Lisa Perron
DATE Signed (MM/DD/YY): 6/6/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

PAGE Q-020rev.00, 24-OCT-2007

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Page: 1 of 1

Section A — Required Client Information:
Company: EnviroAnalytics Group
Address: 1600 Sparrows Point Blvd, Suite B2
Sparrows Point, MD 21219
Email To: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 Fax:
Requested Due Date/TAT: 5 Day

Section B — Required Project Information:
Report To: James Calenda
Copy To: Stewart Kabis
Purchase Order No.: EAG-SPT-6989
Project Name: COA IM GW Sampling
Project Number: 170384M-1

Section C — Invoice Information:
Attention: Laura Sargent
Company Name: EnviroAnalytics Group
Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager: Samantha Bayura
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MD

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/5/18	—		2				2							X		
2	C037-PZM038	WT	G				905		3				3						X	X		
3	C042-PZM004	WT	G				950		3				3						X	X		
4	C024-PZM007	WT	G				1115		3				3						X	X		
5	C023-PZM008	WT	G				1150		3				3						X	X		
6	C059-PZM002	WT	G				1215		3				3						X	X		
7	C056-PZP001	WT	G				1250		3				3						X	X		
8	C055-PZM000	WT	G				1325		3				3						X	X		
9	C026-PZM007	WT	G				1420		3				3						X	X		
10	C058-PZM001	WT	G				1455		3				3						X	X		
11	C057-PZP002	WT	G				1545		3				3						X	X		
12	C060-PZP001	WT	G				1625		3				3						X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No plugs	Lisa Perrin	6/5/18	1653	A. Branningham/Pace	6/5/18	1650	
	A. Branningham/Pace	6/5/18					

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perrin
SIGNATURE of SAMPLER: Lisa Perrin
DATE Signed (MM/DD/YY): 6/5/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

FORM NO. 0000CV.00, 27 JUL 2007

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Page: 1 of 1

Section A Required Client Information:
- Company: EnviroAnalytics Group
- Address: 1600 Sparrows Point Blvd, Suite B2
- Sparrows Point, MD 21219
- Email To: jcalenda@enviroanalyticsgroup.com
- Phone: 314-620-3056 Fax:
- Requested Due Date/TAT: 5 Day

Section B Required Project Information:
- Report To: James Calenda
- Copy To: Stewart Kabis
- Purchase Order No.: EAG-SPT-6989
- Project Name: COA IM GW Sampling
- Project Number: 170384m-1-

Section C Invoice Information:
- Attention: Laura Sargent
- Company Name: EnviroAnalytics Group
- Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
- Pace Quote Reference:
- Pace Project Manager: Samantha Bayura
- Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
Trip Blank	WT	G			6/4/18	—		2				2							X		
C036-PZM008	WT	G				950		3				3						X			
C036-PZM043	WT	G				1015		3				3						X			
C038-PZM006	WT	G				1110		3				3						X			
C038-PZM043	WT	G				1145		3				3						X			
C039-PZM042	WT	G				1315		3				3						X			
C039-PZM007	WT	G				1340		3				3						X			
C041-PZM001	WT	G				1430		3				3						X			
C041-PZM036	WT	G				1505		3				3						X			

26

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No pkgs	[signature]	6/4/18	1612	A. Benningshove / PACE	6/4/18	1620	
	A. Benningshove / PACE	6/4/18					

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perrin
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM/DD/YY): 6/4/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	EnviroAnalytics Group	Report To:	James Calenda	Attention:	Laura Sargent
Address:	1600 Sparrows Point Blvd, Suite B2	Copy To:	Stewart Kabis	Company Name:	EnviroAnalytics Group
	Sparrows Point, MD 21219			Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Email To:	jcalenda@enviroanalyticsgroup.com	Purchase Order No.:	EAG-SPT-6989	Pace Quote Reference:	
Phone:	314-620-3056 Fax:	Project Name:	COA IM GW Sampling	Pace Project Manager:	Samantha Bayura
Requested Due Date/TAT:	5 Day	Project Number:	180227m-1-2	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MD

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			9-13-18	—		2				2					Y	X	X		
2	C060-PZP001	WT	G				855		3				3					Y	X			
3	C093-PZMXXX	WT	G				950		3				3					Y	X			
4	C018-PZM006	WT	G				1030		3				3					Y	X			
5	C037-PZM038	WT	G				1110		3				3					Y	X			
6	C040-PZM008	WT	G				1150		3				3					Y	X			
7	C039-PZM042	WT	G				1340		3				3					Y	X			
8	C039-PZM007	WT	G				1400		3				3					Y	X			
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No Pkgs	[signature]	9-13-18	1600				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perron

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-13-18

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Email To: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 Fax:
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Report To: James Calenda
Copy To: Stewart Kabis
Purchase Order No.: EAG-SPT-6989
Project Name: COA IM GW Sampling
Project Number: 170384m-1

Section C Invoice Information:
Attention: Laura Sargent
Company Name: EnviroAnalytics Group
Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager: Samantha Bayura
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MD

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC + NAPH by 8260	VOCS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/7/18	—		2				2						X		
2	C062-PZM007	WT	G				755		3				3					X			
3	C061-PZM007	WT	G				815		3				3					X			
4	C043-PZM048	WT	G				915		3				3					X			
5	C044-PZM048	WT	G				930		3				3					X			
6	C045-PZM047	WT	G				1027		3				3					X			
7	C046-PZM047	WT	G				1032		3				3					X			
8	C047-PZM046	WT	G				1041		3				3					X			
9	C048-PZM044	WT	G				1054		3				3					X			
10	C030-PZM015	WT	G				1535		3				3					X			
11	C030-PZM060	WT	G				1615		3				3					X			
12									32												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
No pkgs		6/7/18	1700		6/7/18	1700
		6/7/18				

SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE: Lisa Perrin
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 6/7/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA JM GW 2018	Project Number:	180227M-1-2
Well Number:	COSB-PZM001	Date:	9-11-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.61	Flow Rate (mL/min)	254
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	19.30	Condition of Pad/Cover:	None/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1352	0.0	12.61	21.46	9.89	2.02	0.42	-57	40.9	
1357	0.25	12.67	21.93	9.77	1.81	0.35	-73	3.8	
1402	0.50	12.69	21.99	9.62	1.58	0.41	-71	7.5	
1407	0.80	12.69	22.10	9.32	1.35	0.50	-53	11.7	
1412	1.10	12.69	22.19	9.08	1.26	0.63	-24	83.7	
1417	1.40	12.69	22.21	8.97	1.25	0.76	-11	84.4	
1422	1.70	12.70	22.29	8.90	1.24	0.84	0	76.0	
1427	2.00	12.70	22.42	8.83	1.24	0.96	9	107.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COSB-PZM001	1430	TCL-VOCs	3 - 40 mL VOA	HCl	Y/N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naph — Turb not stable

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW 2018	Project Number:	180227.m-1-2
Well Number:	CO23-PZM008	Date:	9-11-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.10	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	22.02	Condition of Pad/Cover:	Good Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1148	0.0	14.10	22.58	9.12	8.99	0.00	-176	8.4	
1153	0.25	14.10	22.29	9.09	7.06	0.00	-188	1.5	
1158	0.50	14.11	22.21	9.06	4.60	0.00	-185	0.5	
1203	0.75	14.11	22.22	9.09	4.00	0.00	-177	0.6	
1208	1.00	14.11	22.27	9.13	3.85	0.00	-172	0.5	
1213	1.25	14.11	22.33	9.14	3.76	0.00	-168	0.5	
1218	1.50	14.11	22.37	9.11	3.69	0.00	-164	0.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO23PZM008	1225	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

DO?

Sampled By: LLP

Comments: VOA + Naphth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	180227M-1-2
Well Number:	C056-PZP001	Date:	9-11-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.34	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19.30	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1442	0.0	12.34	22.12	9.72	2.51	0.37	-19	43.4	
1447	0.2	12.34	22.05	9.71	2.53	0.04	-62	16.8	
1452	0.4	12.34	22.01	9.68	2.52	0.02	-68	14.2	
1457	0.6	12.34	21.99	9.66	2.51	0.00	-73	9.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C056-PZP001	1500	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: CLP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA Im GW 2018	Project Number:	180227m-1-2
Well Number:	C030-PZM015	Date:	9-11-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.35	Flow Rate (mL/min)	254
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	72'	Condition of Pad/Cover:	OK / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
945	0.0	12.54	20.47	9.81	1.66	0.15	-57	3.3	
950	0.36	10.55	20.39	9.80	1.78	0.00	-107	1.3	
955	0.72	10.72	20.34	9.82	1.91	0.00	-145	0.6	
1000	0.98	10.85	20.38	9.81	2.02	0.00	-151	0.6	
1005	1.34	10.90	20.36	9.81	2.02	0.00	-159	0.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM015	1010	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW 2018	Project Number:	18
Well Number:	C0103-PZMXXX	Date:	9-11-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.73	Flow Rate (mL/min)	284
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	20.65	Condition of Pad/Cover:	Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
827	0.0	11.73	19.36	9.40	1.26	2.32	27	4.2	
832	0.36	11.83	19.32	8.66	0.313	4.86	74	3.6	
837	0.76	11.83	19.54	8.71	0.288	4.41	88	1.2	
842	1.16	11.83	19.68	8.85	0.276	4.35	86	0.7	
847	1.56	11.82	19.84	9.10	0.286	4.47	76	0.7	
852	1.86	11.82	19.92	9.20	0.301	4.44	68	0.4	
857	2.26	11.82	19.99	9.25	0.313	4.36	64	0.2	
902	2.62	11.81	20.03	9.32	0.328	4.30	59	0.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0103-PZMXXX	910	TCL-VOCs	3 - 40 mL VOA	HCl	Y / N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LCP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	~~C053~~ COA IM GW	Project Number:	180227M-1-2
Well Number:	C030-PZM060	Date:	9-11-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	10.53	Flow Rate (mL/min)	219
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	27.5	Condition of Pad/Cover:	OK / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1019	0.0	10.53	20.63	9.90	5.09	0.84	-178	2.8	
1024	0.40	10.60	20.23	10.68	5.64	0.57	-245	1.9	
1029	0.65	12.57	20.26	10.69	5.91	0.42	-220	1.7	
1034	0.90	12.52	20.27	10.92	7.95	0.35	-259	1.1	
1039	1.15	12.52	20.11	10.97	8.06	0.23	-256	0.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM060	1045	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: CLP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA FM 610 2018	Project Number:	180227M-1-2
Well Number:	C0104-PZMXXX	Date:	9-10-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.73	Flow Rate (mL/min)	
Product Thickness (ft):	NA	Length of time Purged (min)	
Depth to Bottom (ft):	19.22	Condition of Pad/Cover:	Good/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1440	0.0	11.73	21.27	8.54	3.91	4.95	+11	7.9	
1445	0.3	11.89	21.81	9.06	2.12	5.50	-41	9.3	
1450	0.6	11.91	21.94	9.04	1.83	4.77	-38	2.7	
1455	0.9	11.91	22.05	9.03	1.93	4.67	-30	2.5	
1500	1.20	11.91	22.03	8.95	2.02	4.89	-22	2.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0104-PZMXXX	1505	TCL-VOCs	3 - 40 mL VOA	HCl	Y/N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW 2018	Project Number:	180227M-1-2
Well Number:	C0102-PZMXXX	Date:	9-10-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.39	Flow Rate (mL/min)	
Product Thickness (ft):	NA	Length of time Purged (min)	
Depth to Bottom (ft):	19.35	Condition of Pad/Cover:	none/ OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1515	0.0	11.39	22.11	10.80	0.006	8.00	-62	110.1	
1520	0.3	11.43	22.01	10.71	0.004	8.17	~~49~~	92.3	
1525	0.6	11.44	21.85	10.67	0.004	8.32	-55	81.8	
1530	0.9	11.44	21.65	10.65	0.003	8.58	-60	74.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0102-PZMXXX	1540	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LCP

Comments: VOC + Napth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA 2018 3rd Q GW	Project Number:	180227-1-2
Well Number:	C0101-PZM	Date:	9-10-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	10.90	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	13.07 Blocked	Condition of Pad/Cover:	None/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1348	0.0	10.94	22.05	9.71	2.53	1.51	-189	6.4	Sheen
1353	0.3	10.96	22.50	12.26	0.792	2.55	-229	2.3	
1358	0.6	10.96	22.61	12.05	0.525	2.39	-194	1.1	
1403	0.75	10.96	22.62	11.06	0.491	2.03	-169	0.7	
1408	1.00	10.96	22.66	9.97	0.479	2.15	-138	0.2	
1413	1.25	10.96	22.66	8.89	0.470	2.33	-130	0.2	
1418	1.50	10.96	22.68	8.84	0.455	2.35	-127	0.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0101-PZM	1425	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOCs + Naph

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: B2 Plant Garage GW	Project Number: 150300m-6-3
Well Number: B2-013-P2	Date: 9-10-18
Well Diameter (in): 1	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 9.86	Flow Rate (mL/min) 269
Product Thickness (ft): NA	Length of time Purged (min) 35
Depth to Bottom (ft): 18.97	Condition of Pad/Cover: none/ Good

PURGING RECORD

Purged 1.20 gal prior

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1245	1.20	10.20	24.11	8.39	0.415	0.57	39	105	Sheen
1250	1.60	10.23	24.37	8.45	0.389	0.10	-28	37.7	↓
1255	2.00	10.23	24.47	8.36	0.394	0.00	-54	23.0	
1300	2.40	10.23	24.55	8.30	0.405	0.00	-84	10.5	
1305	2.70	10.23	24.51	8.28	0.408	0.00	-94	7.2	
1310	3.00	10.23	24.49	8.16	0.412	0.00	-108	4.9	
1315	3.30	10.23	24.54	8.19	0.416	0.00	-113	3.4	
1320	3.70	10.23	24.58	8.20	0.421	0.00	-121	2.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
B2-013-P2	1330	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	N
		TCL-SVOCs	2- 1 L Amber	none	Y
		Oil & Grease	2- 1 L Amber	HCl	N
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Do Questionable

Sampled By: LLP

Comments: VOC + SVOC only

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

9.11 ft x 0.041 gal/ft = 0.37 (gal) x 3 = 1.12 purged

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW 2018	Project Number:	180227m-1-2
Well Number:	C041-PZM036	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.56	Flow Rate (mL/min)	265
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	50.21	Condition of Pad/Cover:	Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1440	0.0	12.56	26.62	10.49	1.68	0.00	-304	4.4	
1445	0.35	12.61	26.67	10.68	1.71	0.00	-331	3.3	
1450	0.70	12.63	26.20	10.80	1.74	0.00	-342	2.7	
1455	1.05	12.63	25.92	10.86	1.75	0.00	-351	2.6	
1500	1.40	12.63	25.03	10.84	1.76	0.00	-358	8.1	
1505	1.75	12.63	24.12	10.79	1.77	0.00	-357	9.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	1510	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA Fm GW 2018	Project Number:	180227M-1-2
Well Number:	C041-PZM001	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	16.21	Condition of Pad/Cover:	Good/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1415	0.0	11.31	27.82	8.43	0.729	0.06	34	0.0	
1420	0.30	11.32	27.66	8.44	0.722	0.00	40	0.0	
1425	0.60	11.32	27.86	8.41	0.716	0.00	30	0.0	
1430	0.90	11.32	27.62	8.41	0.716	0.0	22	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	1435	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: CCP

Comments: VOC + Naph

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW 2018	Project Number:	180227M-1-2
Well Number:	C036-PZM043	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	6.52	Flow Rate (mL/min)	277
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	52.04	Condition of Pad/Cover:	Good Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1334	0.0	6.52	25.31	10.01	2.61	0.08	-259	4.4	
1339	0.40	6.73	23.20	9.89	2.96	0.00	-335	3.0	
1344	0.80	6.71	22.90	9.93	3.09	0.00	-358	3.3	
1349	1.15	6.70	22.96	10.00	3.11	0.00	-365	3.0	
1354	1.45	6.70	22.92	10.02	3.13	0.00	-363	3.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM043	1400	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW 2018	Project Number:	180227M-1-2
Well Number:	C036-PZM008	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	5.64	Flow Rate (mL/min)	235
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	14.12	Condition of Pad/Cover:	Good/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1256	0.0	5.64	27.33	10.83	1.87	0.22	-194	10.5	
1301	0.35	5.91	25.36	9.97	1.93	0.00	-260	4.7	
1306	0.65	5.91	25.75	10.07	1.69	0.00	-257	3.6	
1311	0.95	5.91	25.94	10.15	1.35	0.07	-232	2.2	
1316	1.25	5.91	26.70	10.14	1.08	0.42	-178	0.8	
1321	1.55	5.91	26.70	10.12	1.02	0.69	-171	0.1	
1326	1.85	5.91	26.87	10.13	1.01	0.81	-167	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM008	1330	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA FM GW 2018	Project Number:	180227M-1-2
Well Number:	CO02-PZM006	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.97	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	~~19.87~~ 19.87	Condition of Pad/Cover:	None/ OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1113	0.0	13.97	24.07	8.37	1.20	0.22	-75	8.0	
1118	0.30	13.98	23.78	8.77	1.20	0.00	-122	5.2	
1123	0.60	13.98	23.83	9.76	1.21	0.20	-155	6.7	
1128	0.90	13.99	23.97	10.15	1.20	0.29	-175	14.9	
1133	1.20	13.99	24.01	10.28	1.17	0.32	-198	4.1	
1138	1.50	13.99	24.10	10.57	1.16	0.34	-232	3.1	
1143	1.80	13.99	24.21	10.85	1.16	0.23	-270	2.7	
1148	2.10	13.99	24.23	10.91	1.15	0.18	-277	2.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO02-PZM006	1155	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	180227M-1-2
Well Number:	C026-PZM007	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	———
Depth to Product (ft):	NA	QED Controller Settings:	———
Depth to Water (ft):	11.22	Flow Rate (mL/min)	178
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	19.34	Condition of Pad/Cover:	None/ OK to poor but slopes

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1012	0.0	11.22	20.09	8.89	0.581	0.05	-8	9.8	
1017	0.4	14.21	19.86	9.32	0.649	0.00	-58	19.2	
1022	0.60	14.57	20.52	9.89	0.888	0.00	-113	48.3	
1027	0.80	14.76	20.74	9.81	1.41	0.00	-151	28.2	
1032	1.00	14.85	20.75	10.07	1.89	0.00	-174	16.1	
1037	1.20	14.96	20.67	10.15	2.11	0.00	-186	9.2	
1042	1.40	15.03	20.57	10.21	2.29	0.00	-193	5.5	
1047	1.60	15.11	20.57	10.27	2.42	0.00	-196	3.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C026-PZM007	1050	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	180227M-1-2
Well Number:	C059-PZP002	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	15.10	Flow Rate (mL/min)	265
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	19.03	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
936	0.0	15.10	21.83	9.54	2.42	2.86	26	0.0	
941	0.35	15.10	21.84	9.63	2.50	2.19	19	0.0	
946	0.70	15.12	21.78	9.71	2.57	1.96	12	0.0	
951	1.05	15.12	21.77	9.73	2.59	1.91	6	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C059-PZP002	1000	TCL-VOCs	3 - 40 mL VOA	HCl	Y / N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Naphth

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA JM GW	Project Number:	180227M-1-2
Well Number:	C057-P29002	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.62	Flow Rate (mL/min)	302
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17.86	Condition of Pad/Cover:	Good OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
847	0.0	14.62	21.04	9.21	2.04	4.94	74	13.6	
852	0.4	14.63	21.92	9.84	2.01	4.88	53	1.8	
857	0.8	14.63	22.19	9.88	2.00	4.78	45	0.0	
902	1.2	14.63	22.31	9.91	2.01	4.75	39	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C057-P29002	905	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW 2018	Project Number:	180227m-1-2
Well Number:	C024-PZM007	Date:	9-11-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.60	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	22.15	Condition of Pad/Cover:	Good/ Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1100	0.0	13.60	21.23	9.92	8.91	0.19	-114	1.9	
1105	0.30	13.95	21.63	9.40	8.90	0.02	-143	1.2	
1110	0.60	13.97	21.85	8.88	8.96	0.00	-147	1.1	
1115	0.90	13.97	21.96	8.64	8.96	0.00	-143	1.0	
1120	1.20	13.97	22.03	8.56	8.90	0.0	-139	0.8	
1125	1.50	13.97	22.10	8.52	8.84	0.0	-137	0.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C024-PZM007	1130	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Naphth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	CDA IM GW	Project Number:	180227m-1-2
Well Number:	C055-PZM000	Date:	9-12-18
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	13.48	Flow Rate (mL/min)	
Product Thickness (ft):	NA	Length of time Purged (min)	
Depth to Bottom (ft):	17.06	Condition of Pad/Cover:	OK / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
800	0.0	13.48	23.25	10.12	1.92	4.47	-48	5.6	
805	0.25	14.43	23.59	10.13	1.93	4.52	-49	0.8	
810	0.45	15.04	23.57	10.09	2.07	2.88	-50	3.8	
815	0.65	16.55	23.01	10.08	2.20	2.71	-60	4.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C055PZM000	820	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LVP

Comments: VOC + Naph

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	180227M-1-2
Well Number:	C060-PZP001	Date:	9-13-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.20	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	18.90	Condition of Pad/Cover:	Good/ OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
828	0.0	14.20	20.71	8.80	2.37	0.49	-76	0.0	
833	0.3	14.22	21.36	9.43	2.40	0.46	-101	0.0	
838	0.6	14.24	21.40	9.56	2.41	0.38	-103	1.8	
843	0.9	14.25	21.52	9.63	2.42	0.33	-106	0.0	
848	1.20	14.25	21.57	9.68	2.41	0.35	-104	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C060-PZP001	855	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	CQA IM GW	Project Number:	180227M-1-2
Well Number:	C093-PZMXXX	Date:	9-13-18
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	9.79	Flow Rate (mL/min)	2.27
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	19.55	Condition of Pad/Cover:	OK / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
910	0.0	9.79	22.06	9.61	0.393	0.24	-198	0.4	
915	0.35	10.09	21.90	11.98	0.394	0.54	-253	1.1	
920	0.70	10.11	21.90	12.52	0.435	0.18	-284	20.5	
925	1.00	10.11	22.32	13.37	0.897	0.14	-360	25.7	
930	1.30	10.11	22.09	11.56	1.27	0.00	-360	10.05	
935	1.60	10.11	21.93	11.34	1.43	0.00	-361	6.5	
940	1.90	10.11	22.07	11.08	1.57	0.00	-370	2.3	
945	2.10	10.11	22.06	10.91	1.64	0.00	-364	1.4	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C093-PZMXXX	950	TCL-VOCs	3 - 40 mL VOA	HCl	Y / N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LHP

Comments: VOC + Naph

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	180227M-1-2
Well Number:	C018-PZM006	Date:	9-13-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.48	Flow Rate (mL/min)	201
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	20.02	Condition of Pad/Cover:	None / Heavy Brush

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1005	0.0	11.48	22.21	11.20	1.68	0.36	-143	15.1	
1010	0.30	11.53	22.69	10.76	1.67	0.18	-130	5.3	
1015	0.55	11.55	23.05	10.61	1.68	0.10	-128	12.8	
1020	0.80	11.56	23.33	10.68	1.64	0.00	-133	10.9	
1025	1.05	11.57	23.37	10.73	1.54	0.00	-142	8.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C018-PZM006	1030	TCL-VOCs	3 - 40 mL VOA	HCl	Y / N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: VOC + Naph

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IMGO 2018	Project Number:	180227M-1-2
Well Number:	C037-PZM038	Date:	9-13-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.48	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	49.88	Condition of Pad/Cover:	none / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1048	0.0	11.48	24.67	12.22	1.93	0.21	-313	0.0	
1053	0.25	11.49	24.20	11.88	1.99	0.02	-330	0.0	
1058	0.50	11.49	23.99	11.67	2.00	0.00	-334	0.0	
1103	0.75	11.51	23.85	11.64	2.00	0.00	-338	0.0	
1108	1.00	11.52	23.82	11.57	2.02	0.00	-341	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C037-PZM038	1110	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IM GW	Project Number:	180227M-1-2
Well Number:	C040-PZM008	Date:	9-13-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.22	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17.61	Condition of Pad/Cover:	None/ Heavy Brush

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1131	0.0	6.22	22.55	12.09	2.56	0.43	-300	30.5	
1136	0.25	6.37	22.27	13.12	2.62	0.22	-309	5.7	
1141	0.50	6.38	22.40	13.21	2.64	0.15	-308	2.0	
1146	0.75	6.40	22.50	13.28	2.66	0.15	-312	1.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C040-PZM008	1150	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LB

Comments: VOC + Naphth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IMGW 2018	Project Number:	180227M-1-2
Well Number:	C039-PZM042	Date:	9-13-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	7.26	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	46.00	Condition of Pad/Cover:	None / Heavy Brush

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1315	0.0	7.26	22.90	9.83	2.72	0.00	+357	0.2	
1320	0.30	7.30	22.56	9.96	2.74	0.00	-361	0.3	
1325	0.60	7.32	21.95	10.24	2.76	0.0	-369	0.5	
1330	0.90	7.34	21.51	10.33	2.75	0.0	-372	0.0	
1335	1.20	7.34	21.32	10.37	2.65	0.0	-373	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	1340	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Napth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA IR. GW 2018	Project Number:	180227M-1-2
Well Number:	C039-PZM007	Date:	9-13-18
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	
Depth to Water (ft):	5.83	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	15
Depth to Bottom (ft):	17.94	Condition of Pad/Cover:	None / Heavy Brush

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1343	0.0	5.83	21.07	10.13	3.05	0.00	-312	11.3	
1348	0.25	5.83	21.34	10.18	3.09	0.00	-320	0.8	
1353	0.50	5.83	21.55	10.20	3.06	0.00	-319	0.0	
1358	0.75	5.83	21.75	10.19	3.02	0.0	-312	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM007	1400	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: VOC + Depth

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: CO Quarterly	Project Number: 180227 M
Well Number: CO27-PZM046	Date: 9/14/18
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): none	QED Controller Settings:
Depth to Water (ft): 6.04	Flow Rate (mL/min) 325
Product Thickness (ft): none	Length of time Purged (min)
Depth to Bottom (ft): 51.72	Condition of Pad/Cover: na / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1020	0.1	6.04	21.55	12.36	0.925	11.0	-287	0.75	
1025	0.3	6.04	21.48	13.83	0.915	0.00	-300	0.00	
1030	0.6	6.04	21.41	14.00	0.915	0.00	-304	0.00	
1035	1.0	6.04	21.36	14.00	0.912	0.00	-303	0.00	
1040	1.4	6.04	21.34	14.00	0.913	0.00	-308	0.00	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO27-PZM046	1045	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	~~2 - 1 L Amber~~	~~none~~	naph
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LMG

Comments:
infested w/ ants

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: CO Quarterly	Project Number: 180227M
Well Number: C027-PZM012	Date: 9/14/18
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): none	QED Controller Settings:
Depth to Water (ft): 3.81	Flow Rate (mL/min) 375
Product Thickness (ft): none	Length of time Purged (min)
Depth to Bottom (ft): 17.05	Condition of Pad/Cover: na / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
0945	0.2	3.81	22.49	10.11	1.74	2.4	-277	0.18	
0950	0.6	3.81	22.05	10.45	1.72	0.5	-302	0.04	
0955	1.2	3.81	21.75	10.69	1.74	0.0	-303	0.00	
1000	1.8	3.81	21.59	10.79	1.76	0.0	-306	0.00	
1005	2.4	3.81	21.55	10.86	1.76	0.0	-308	0.00	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C027-PZM012	1010	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	~~2 - 1 L Amber~~ VOA	~~none~~	nap
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LMG

Comments: infested w/ ants called E. Magdar. I said to sample like normal

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: PC Quarterly	Project Number: 180227M
Well Number: MW42 - PZMW04	Date: 9/12/18
Well Diameter (in): 2	One Well Volume (gal):
Depth to Product (ft): none	QED Controller Settings:
Depth to Water (ft): 7.64	Flow Rate (mL/min) 230
Product Thickness (ft): none	Length of time Purged (min)
Depth to Bottom (ft): 16.11	Condition of Pad/Cover: na / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
0845	0.1	7.64	21.56	7.01	0.994	20.6	-111	1.67	
0850	0.3	8.02	21.43	11.49	0.952	9.3	-232	0.64	
0855	0.6	8.52	21.44	12.20	0.935	4.7	-230	0.40	
0900	0.8	8.97	21.49	12.58	0.894	3.4	-208	0.29	
0905	1.0	9.46	21.69	12.49	0.897	3.1	-210	0.23	
0910	1.2	9.54	21.79	12.52	0.904	2.8	-215	0.18	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
MW42-PZMW04	0915	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	mph.
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: JMG

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW sampling	Project Number: 180227M-1-2
Well Number: CO38-PZM043	Date: 12-14-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 7.14	Flow Rate (mL/min) 208
Product Thickness (ft): NA	Length of time Purged (min) 20
Depth to Bottom (ft): 49.62	Condition of Pad/Cover: Good Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1148	0.0	7.14	12.42	8.23	1.04	0.70	-214	8.8	
1153	0.30	7.16	12.16	7.95	1.02	0.24	-198	6.5	
1158	0.60	7.19	12.11	7.89	1.01	0.14	-193	4.6	
1203	0.85	7.20	12.08	7.86	1.01	0.11	-191	4.4	
1208	1.10	7.21	12.06	7.85	1.01	0.10	-190	4.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO38-PZM043	1210	TCL-VOCs MATRIX	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: UP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW Sampling	Project Number:	180227m.1-2
Well Number:	C038-PZM006	Date:	12-14-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.16	Flow Rate (mL/min)	18.9
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	15.70	Condition of Pad/Cover:	None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1108	0.0	6.16	12.48	10.61	2.53	0.41	-285	46.5	
1113	0.25	6.20	12.39	10.55	2.52	0.07	-298	38.7	
1118	0.50	6.23	12.33	10.55	2.49	0.01	-299	38.4	
1123	0.75	6.25	12.22	10.53	2.49	0.00	-302	30.4	
1128	1.00	6.28	12.11	10.52	2.49	0.00	-304	20.4	
1133	1.25	6.29	11.98	10.47	2.48	0.00	-303	23.4	
1138	1.50	6.30	11.88	10.45	2.49	0.00	-308	24.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C038-PZM006	1140	TCL-VOCs/Nap	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft
_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: CoA GW Sampling	Project Number: 180227M-1-2
Well Number: C036-PZM008	Date: 12-14-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 6.81	Flow Rate (mL/min) 227
Product Thickness (ft): NA	Length of time Purged (min) 30
Depth to Bottom (ft): 14.14	Condition of Pad/Cover: OK / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
946	0.0	6.81	12.19	11.32	1.08	1.05	-196	17.0	
951	0.30	6.94	12.10	11.33	1.07	0.32	-187	9.6	
956	0.60	6.94	12.04	11.25	1.04	0.29	-179	8.0	
1001	0.90	6.94	11.94	11.22	1.01	0.28	-173	5.7	
1006	1.20	6.94	11.75	11.36	0.975	0.27	-171	4.2	
1011	1.50	6.94	11.74	11.29	0.956	0.26	-172	3.2	
1016	1.80	6.94	11.67	11.23	0.943	0.30	-181	2.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C036-PZM008	1020	TCL-VOCs (NAPH)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW Sampling	Project Number: 180227M-1-2
Piezometer Number: C039-PZM007	Date: 12-14-18
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 6.79	Flow Rate (mL/min) 265
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 17.94	Pad/cover: None/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
917	0.0	6.79	13.61	10.66	3.07	0.08	-267	2.4	
922	0.35	6.80	13.30	10.62	3.10	0.00	-274	4.3	
927	0.70	6.80	13.05	10.54	3.12	0.00	-277	4.2	
932	1.05	6.80	12.80	10.51	3.15	0.00	-279	3.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM007	935	TCL-VOCs/Naphth	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: LHP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW sampling	Project Number:	180227M-1-2
Well Number:	C036-PZM043	Date:	12-4-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	7.41	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	52.06	Condition of Pad/Cover:	OK / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1028	0.0	7.41	11.81	11.81	3.45	0.75	-236	9.2	
1033	0.30	7.41	11.94	11.77	3.49	0.35	-249	6.9	
1038	0.60	7.40	12.13	11.74	3.52	0.23	-260	5.2	
1043	0.90	7.41	12.29	11.73	3.52	0.17	-266	4.8	
1048	1.20	7.41	12.37	11.70	3.48	0.14	-270	4.7	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Preservative	Collected?
C036-PZM043	1050	TCL-VOCs (Naph)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: CoA GW sampling	Project Number: 180227m-1-2
Piezometer Number: C039-PZM042	Date: 12-14-18
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 8.12	Flow Rate (mL/min) 227
Product Thickness (ft): NA	Length of time Purged (min) 20
Depth to Bottom (ft): 46	Pad/cover: None/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
846	0.0	8.12	16.82	11.55	2.77	0.26	-322	1.26	
851	0.30	8.14	16.12	11.69	2.84	0.15	-320	1.6	
856	0.60	8.16	15.57	11.61	2.88	0.12	-336	2.9	
901	0.90	8.17	14.92	11.57	2.86	0.09	-338	3.1	
906	1.20	8.18	14.48	11.53	2.83	0.10	-340	3.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C039-PZM042	910	TCL-VOCs/NAPH	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: LP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW Sampling	Project Number: 180227M-1-32
Piezometer Number: C059-PZP002	Date: 12-13-18
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 15.27	Flow Rate (mL/min) 227
Product Thickness (ft): NA	Length of time Purged (min) 35
Depth to Bottom (ft): 19.04	Pad/Cover: Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1126	0.0	15.27	9.13	11.11	2.25	3.01	-122	16.1	
1131	0.25	15.30	9.49	11.12	2.16	1.91	-105	10.6	
1136	0.50	15.36	9.83	11.15	2.06	1.49	-98	5.1	
1141	0.75	15.39	10.18	11.18	2.01	1.54	-94	2.0	
1146	1.00	15.39	10.65	11.28	2.00	1.47	-96	1.6	
1151	1.25	15.41	10.95	11.48	2.11	0.98	-105	1.1	
1156	1.50	15.41	11.01	11.53	2.13	1.00	-109	0.8	
1201	1.75	15.41	11.10	11.56	2.17	0.99	-111	0.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C059-PZP002	1205	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: LH

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW Sampling	Project Number: 180227M-1-B2
Piezometer Number: C023-PZM008	Date: 12-18-19
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 14.20	Flow Rate (mL/min) 170
Product Thickness (ft): NA	Length of time Purged (min) 20
Depth to Bottom (ft): 22.05	Pad / cover: Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1052	0.0	14.20	7.98	10.97	19.2	0.98	-230	0.0	
1057	0.25	14.30	8.35	10.97	19.0	0.30	-278	5.7	
1102	0.50	14.32	8.68	10.93	16.6	0.19	-288	6.6	
1107	0.70	14.34	8.90	10.84	16.2	0.20	-279	6.9	
1112	0.90	14.34	9.05	10.79	15.7	0.13	-271	7.2	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C023-PZM008	1117	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA OW	Project Number:	180227M-1-3&2
Piezometer Number:	C024-PZM007	Date:	12-18-18
Piezometer Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.74	Flow Rate (mL/min)	178
Product Thickness (ft):	NA	Length of time Purged (min)	30
Depth to Bottom (ft):	22.14	Pad/cover:	Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
841	0.10	13.74	16.56	5.49	4.20	0.44	178	2.5	
846	0.30	13.91	15.34	7.01	4.32	0.25	51	1.8	
851	0.60	14.02	14.29	7.77	4.39	0.15	4	4.5	
856	0.80	14.00	13.61	7.77	4.45	0.15	-30	5.4	
901	1.00	13.99	12.96	7.82	4.49	0.12	-97	5.5	
906	1.20	13.97	12.50	7.87	4.53	0.10	-106	5.3	
911	1.40	13.97	12.05	7.83	4.59	0.13	-112	5.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C024-PZM007	915	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW sampling	Project Number:	180227M-1 2
Piezometer Number:	C042-PZM004	Date:	12-17-18
Piezometer Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	4.47	Flow Rate (mL/min)	166
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	16.39	Pad/cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1507	0.0	4.47	14.28	9.02	0.734	0.91	-160	1.3	
1512	0.25	5.02	14.18	8.93	0.727	0.29	-142	0.7	
1517	0.50	5.43	14.13	8.76	0.722	0.24	-128	0.9	
1522	0.75	5.46	13.94	8.72	0.719	0.33	-104	0.6	
1527	0.90	5.47	13.75	8.68	0.719	0.38	-97	0.6	
1532	1.10	5.47	13.50	8.61	0.723	0.47	-89	0.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C042-PZM004	1540	TCL-VOCs (N)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	IINO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: CoA GW Sampling	Project Number: 180227M-1-3&2
Piezometer Number: C037-PZM038J	Date: 12-17-18
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 11.47	Flow Rate (mL/min) 227
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 49.88	Pad/cover: None/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1433	0.0	11.47	12.83	12.11	2.03	0.80	-304	2.6	
1438	0.30	11.48	13.18	12.18	2.00	0.39	-320	1.7	
1443	0.60	11.48	13.45	12.17	1.98	0.31	-314	1.4	
1448	0.90	11.48	13.72	12.17	1.96	0.25	-322	1.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C037-PZM038	1455	TCL-VOCs/Naph	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW Sampling	Project Number: 180227M-1 & 2
Piezometer Number: CO027-PZM012	Date: 12-17-18
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 3.81	Flow Rate (mL/min) 227
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 17.5	Pad/cover : None/OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1403	0.0	3.81	12.51	8.60	1.75	0.51	-223	0.7	
1408	0.30	3.81	12.55	8.94	1.76	0.30	-236	0.4	
1413	0.60	3.81	12.58	8.95	1.76	0.21	-232	0.4	
1418	0.90	3.81	12.62	8.95	1.77	0.32	-234	0.40	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CO027PZM012	1425	TCL-VOCs (Na2S2O3)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW Sampling	Project Number:	180227M-1-32
Piezometer Number:	COØ27-PZM046	Date:	12-17-18
Piezometer Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	7.75	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	51	Pad/cover:	None/OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1332	0.0	7.75	11.51	6.04	0.757	0.79	-173	2.7	
1337	0.25	7.73	11.84	6.17	0.746	0.57	-176	1.8	
1342	0.50	7.73	12.08	6.35	0.741	0.46	-178	1.7	
1347	0.75	7.73	12.25	6.43	0.737	0.39	-178	1.5	
1352	1.00	7.73	12.41	6.48	0.736	0.31	-184	1.3	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COØ27-PZM046	1400	TCL-VOCs (Month)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW Sampling	Project Number: 180227m-1-2
Piezometer Number: C030-PZM015	Date: 12-10-18
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): ~~NA~~ NA	QED Controller Settings: —
Depth to Water (ft): 12.17	Flow Rate (mL/min) 151
Product Thickness (ft): NA	Length of time Purged (min) 30
Depth to Bottom (ft): 27.64	Pad/cover: None/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1240	0.0	12.17	7.73	8.89	2.20	1.05	-87	5.4	
1245	0.20	12.19	7.90	9.10	2.10	0.39	-67	4.2	
1250	0.40	12.19	7.98	9.12	2.13	0.74	-52	2.1	
1255	0.60	12.19	8.07	9.23	2.16	0.23	-34	1.7	
1300	0.80	12.19	8.23	9.28	2.19	0.18	-19	2.7	
1305	1.00	12.19	8.38	9.30	2.18	0.14	-10	2.6	
1310	1.20	12.19	8.44	9.30	2.13	0.13	-8	2.1	
	E								

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM015	1315	TCL-VOCs / NEPA	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: CLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW sampling	Project Number: 180227m-1-2
Piezometer Number: C0101-PZMXXX	Date: 12-10-18
Piezometer Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 11.69	Flow Rate (mL/min) NA
Product Thickness (ft): NA	Length of time Purged (min) NA
Depth to Bottom (ft): 13.30	Pad / Cover: poor / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1223	0.0	12.75	7.37	8.13	0.822	6.35	-131	25.3	
1228	0.15	12.82	→						
			Grab sample						

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0101-PZMXXX	1226	TCL-VOCs (Naph)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: UP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW sampling	Project Number:	180227M-1-2
Well Number:	C018-PZM006	Date:	12-10-18
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	11.61	Flow Rate (mL/min)	182
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	20.05	Condition of Pad/Cover:	None / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1028	0.0	11.61	9.21	8.35	1.05	2.37	-115	277	
1033	0.25	11.79	9.11	8.44	1.05	1.95	-59	224	
1038	0.50	11.81	9.02	7.93	1.05	1.85	-57	198	
1043	0.75	11.82	8.84	7.92	1.05	1.74	-15	178	
1048	1.00	11.82	8.70	7.88	1.05	1.78	3	169	
1053	1.25	11.82	8.51	7.84	1.05	1.73	20	152	
1058	1.45	11.82	8.30	7.82	1.05	1.50	34	134	
1103	1.65	11.82	8.19	7.79	1.05	1.84	42	119	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Preservative	Collected?
C018-PZM006	1105	TCL-VOCs (w/ MeOH)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: ORP Not Stable
Turb not Stable

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft
_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	~~[illegible]~~ COA 600	Project Number:	180227M-1-2
Well Number:	C802-PZM006	Date:	12-10-18
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.01	Flow Rate (mL/min)	151
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	18.88	Condition of Pad/Cover:	NOTE / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
951	0.0	14.01	10.26	9.19	0.302	2.46	-162	3.6	
956	0.20	14.02	10.15	9.05	0.000	0.86	-144	1.5	
1001	0.40	14.02	10.11	9.06	0.00	11.17	-138	4.5	
1006	0.60	14.02	10.04	8.97	0.00	11.15	-131	1.8	
1011	0.80	14.02	9.96	8.94	0.00	11.19	-126	1.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C802-PZM006	1020	TCL-VOCs/Naph.	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW	Project Number: 180227M-1-2
Well Number: C093-PZMXXX	Date: 12-10-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 10.11	Flow Rate (mL/min) 107
Product Thickness (ft): NA	Length of time Purged (min) 30
Depth to Bottom (ft): 19.62	Condition of Pad/Cover: poor / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
903	0.10	10.11	13.74	5.13	0.183	2.32	64	4.1	
908	0.20	10.11	13.01	7.85	0.282	0.96	-127	3.3	
913	0.40	10.11	12.06	9.86	0.423	0.30	-215	2.7	
918	0.60	10.11	11.71	10.32	0.464	0.20	-211	3.1	
923	0.80	10.11	11.61	10.53	0.601	0.16	-274	4.6	
928	1.00	10.11	11.35	10.49	0.598	0.16	-282	3.7	
933	1.20	10.11	11.15	10.36	0.603	0.16	-284	4.9	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Preservative	Collected?
C093-PZMXXX	940	~~NaOH HCl~~ VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	|
		TCL-SVOCs	2- 1 L Amber	none	|
		Oil & Grease	2- 1 L Amber	HCl	|
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	|
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	|
		Total Cyanide	1 - 250 mL Plastic	NaOH	|
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	|
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	|
		PCB	2 - 1 L Amber	None	|
		Matrix Spike			|
		Duplicate			|

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	CoA GW sampling	Project Number:	180227M-1-2
Well Number:	CO104-PZMXXX	Date:	12-10-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	N/A	QED Controller Settings:	—
Depth to Water (ft):	13.32	Flow Rate (mL/min)	227
Product Thickness (ft):	N/A	Length of time Purged (min)	35
Depth to Bottom (ft):	19.27	Condition of Pad/Cover:	Good/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1435	0.0	13.32	8.92	10.74	2.42	6.69	-71	2.3	
1440	0.30	13.32	9.50	10.57	2.03	6.84	-43	66.7	
1445	0.60	13.32	9.84	10.51	1.90	6.78	-33	34.0	
1450	0.90	13.32	10.16	10.46	1.80	6.49	-24	13.1	
1455	1.20	13.32	10.36	10.44	1.78	6.22	-20	10.4	
1000	1.50	13.32	10.60	10.37	1.62	5.18	-17	3.6	
1505	1.80	13.32	10.78	10.23	1.54	4.19	-17	1.2	
1510	2.10	13.32	10.94	10.32	1.56	3.32	-18	0.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Preservative	Collected?
CO104-PZMXXX	1515	TCL-VOCs (Depth)	3 - 40 mL VOA	HCl	X
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LCP

Comments: DO + PH Not Stable

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Temporary Piezometers

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW Sampling	Project Number:	180227M-1-B2
Piezometer Number:	C030-PZM060	Date:	12-10-18
Piezometer Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	13.83	Flow Rate (mL/min)	189
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	71.92	Pad/cover:	None/Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1321	0.0	13.83	8.41	8.18	9.15	0.45	-155	11.4	
1326	0.25	13.86	8.47	8.37	9.06	0.26	-105	10.5	
1331	0.50	13.87	8.48	8.50	9.01	0.17	-92	11.7	
1336	0.75	13.87	8.48	8.53	9.05	0.16	-86	12.3	
1341	1.00	13.87	8.50	8.57	9.03	0.13	-71	13.4	
1346	1.25	13.87	8.48	8.56	8.98	0.10	-46	13.8	
1351	1.50	13.87	8.45	8.53	8.89	0.22	-14	14.1	
1356	1.75	13.87	8.45	8.54	8.95	0.10	0	14.5	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C030-PZM060	1358	TCL-VOCs (MS/MSD)	3 - 40 mL VOA	HCl	Y / N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	None	
		Matrix Spike			
		Duplicate			

Sampled By: LVP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW Sampling	Project Number:	180227m-1-2
Well Number:	C041-PZM001	Date:	12-14-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	12.38	Flow Rate (mL/min)	225
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	16.03	Condition of Pad/Cover:	OK / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1428	0.0	12.38	12.16	8.60	0.502	0.24	-235	4.6	
1433	0.30	12.41	11.89	8.29	0.482	0.17	-229	3.0	
1438	0.60	12.41	11.62	8.13	0.481	0.21	-199	2.5	
1443	0.90	12.41	11.47	8.10	0.482	0.25	-185	2.0	
1448	1.20	12.41	11.33	8.09	0.479	0.23	-177	1.8	
1453	1.50	12.41	11.20	8.08	0.478	0.30	-168	1.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM001	1500	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: CoA GW Sampling	Project Number: 180227M.1-2
Well Number: C041-PZM036	Date: 12-14-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 13.38	Flow Rate (mL/min) 189
Product Thickness (ft): NA	Length of time Purged (min) 25
Depth to Bottom (ft): 56.22	Condition of Pad/Cover: ~~Poor~~ / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1353	0.0	13.38	12.33	11.62	1.15	0.37	-310	24.1	
1358	0.25	13.41	11.89	11.67	1.16	0.14	-326	16.0	
1403	0.50	13.42	12.01	11.61	1.31	0.12	-331	12.9	
1408	0.25	13.42	12.10	11.60	1.31	0.07	-334	10.5	
1413	1.00	13.42	12.17	11.59	1.31	0.05	-336	9.7	
1418	1.25	13.42	12.25	11.58	1.30	0.03	-337	8.9	
↓									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C041-PZM036	1420	TCL-VOCs ~~No PM~~	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft
_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW Sampling	Project Number:	180227M-1-2
Well Number:	C040-PZM008	Date:	12-14-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	6.74	Flow Rate (mL/min)	201
Product Thickness (ft):	NA	Length of time Purged (min)	35
Depth to Bottom (ft):	17.65	Condition of Pad/Cover:	None/ OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1259	0.0	6.74	11.05	7.78	2.04	0.95	-28	80.6	
1304	0.30	6.91	11.18	7.80	2.02	0.40	-85	17.7	
1309	0.60	6.99	11.28	7.80	2.04	0.27	-117	9.0	
1314	0.90	7.04	11.37	7.94	2.07	0.17	-160	6.6	
1319	1.15	7.07	11.41	8.12	2.10	0.11	-190	9.1	
1324	1.35	7.07	11.42	8.20	2.13	0.08	-216	8.9	
1329	1.60	7.08	11.38	8.30	2.18	0.17	-245	8.7	
1334	1.85	7.08	11.39	8.43	2.19	0.16	-233	6.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C040-PZM008	1340	TCL-VOCs	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments: ORP Not Stable

Casing Volume: **1" I.D.** = 0.041 gal/ft - **2" I.D.** = 0.163 gal/ft - **4" I.D.** = 0.653 gal/ft - **6" I.D.** = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW	Project Number: 180227M-1-2
Well Number: C056-PZP001	Date: 12-18-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 14.49	Flow Rate (mL/min) 151
Product Thickness (ft): NA	Length of time Purged (min) 20
Depth to Bottom (ft): 19.18	Condition of Pad/Cover: None / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1239	0.0	14.49	11.70	11.55	3.31	0.69	-151	19.8	
1244	0.2	14.51	11.94	11.48	3.23	0.34	-171	7.0	
1249	0.4	14.52	12.15	11.47	3.19	0.26	-174	3.8	
1254	0.6	14.53	12.33	11.48	3.18	0.21	-174	2.2	
1259	0.8	14.53	12.54	11.50	3.16	0.16	-171	1.8	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C056-PZP001	1300	TCL-VOCs / N	3 - 40 mL VOA	HCl	Y/N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LVP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	180227M-1-2
Well Number:	COS7-PZP002	Date:	12-18-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.44	Flow Rate (mL/min)	227
Product Thickness (ft):	NA	Length of time Purged (min)	25
Depth to Bottom (ft):	17.86	Condition of Pad/Cover:	OK / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1352	0.0	14.44	12.77	12.37	1.28	6.10	-62	30.5	
1357	0.3	14.46	12.52	12.29	1.28	5.64	-73	16.9	
1402	0.6	14.46	12.16	12.26	1.28	5.59	-69	11.6	
1407	0.9	14.46	11.69	12.22	1.29	5.62	-67	7.3	
1412	1.20	14.46	11.16	12.18	1.31	5.71	-61	6.7	
1417	1.50	14.46	10.96	12.14	1.31	5.86	-59	6.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Preservative	Collected?
COS7-PZP002	1420	TCL-VOCs / MW	3 - 40 mL VOA	HCl	Y
		TPH-GRO / MW	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			

Sampled By: LLP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW	Project Number: 180227M-1-2
Well Number: C060-PZM001	Date: 12-19-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 14.47	Flow Rate (mL/min) 204
Product Thickness (ft): NA	Length of time Purged (min) 25
Depth to Bottom (ft): 18.81	Condition of Pad/Cover: OK / GOOD

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
833	0.0	14.47	14.91	10.92	2.58	0.95	-105	27.9	
838	0.3	14.47	13.93	10.90	2.55	0.51	-105	13.9	
843	0.6	14.47	13.19	10.85	2.47	0.35	-100	6.3	
848	0.85	14.47	12.43	10.93	2.43	0.32	-99	3.6	
853	1.10	14.47	11.65	10.92	2.43	0.32	-97	0.0	
858	1.35	14.47	11.17	10.98	2.47	0.33	-98	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Preservative	Collected?
C060-PZM001	0900	TCL-VOCs (with Naphth)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LVP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW	Project Number: 180227M-1-2
Well Number: C058-PZM001	Date: 12-20&18-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 12.99	Flow Rate (mL/min) 189
Product Thickness (ft): NA	Length of time Purged (min) 25
Depth to Bottom (ft): 19.29	Condition of Pad/Cover: poor / good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1432	0.0	12.99	10.56	11.99	3.66	2.81	-96	97.2	
1437	0.25	13.05	10.81	11.96	3.60	2.13	-134	32.6	
1442	0.50	13.09	11.06	11.98	3.61	1.93	-143	13.7	
1447	0.75	13.11	11.35	12.02	3.57	0.69	-150	5.7	
1452	1.00	13.11	11.65	12.07	3.54	0.42	-158	3.3	
1457	1.25	13.11	11.85	11.99	3.55	0.09	-162	3.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	# Container	Perservative	Collected?
C058-PZM001	1500	TCL-VOCs (NA)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LVP

Comments: DO NOT STERILE

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW	Project Number: 180227M-1-2
Well Number: C026-PZM007	Date: 12-19-13
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 11.36	Flow Rate (mL/min) 148
Product Thickness (ft): NA	Length of time Purged (min) 35
Depth to Bottom (ft): 19.37	Condition of Pad/Cover: /

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
917	0.0	11.36	10.83	8.62	0.402	1.93	-4	30.3	
922	0.25	12.27	11.28	8.99	0.401	1.08	-90	20.4	
927	0.50	13.71	11.55	9.57	0.455	1.05	-147	11.5	
932	0.75	14.62	11.72	9.94	0.513	0.99	-166	9.0	
937	0.90	14.75	11.92	10.21	0.596	0.93	-172	6.9	
942	1.05	14.72	12.01	9.89	0.750	0.97	-194	5.0	
947	1.20	14.72	12.03	10.74	0.914	0.56	-208	4.3	
952	1.35	14.72	12.10	11.21	1.02	0.50	-218	4.1	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	# Container	Perservative	Collected?
C026-PZM007	1000	TCL-VOCs	3 - 40 mL VOA	HCl	Y N
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments: PH Not stabile
Cond not stabile

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name:	COA GW	Project Number:	180227M-1-2
Well Number:	C055-PZM000	Date:	12-18-18
Well Diameter (in):	2	One Well Volume (gal):	—
Depth to Product (ft):	NA	QED Controller Settings:	—
Depth to Water (ft):	14.53	Flow Rate (mL/min)	132
Product Thickness (ft):	NA	Length of time Purged (min)	20
Depth to Bottom (ft):	17.08	Condition of Pad/Cover:	OK / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1315	0.0	14.53	12.96	12.24	1.27	6.36	-95	315	
1320	0.25	13.72	13.09	12.12	1.26	6.17	-88	186	
1325	0.40	14.24	13.14	12.13	1.25	6.26	-83	44.7	
1330	0.55	15.29	13.15	12.10	1.26	5.99	-80	42.5	
1335	0.70	15.91	13.17	12.12	1.26	6.02	-79	41.6	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C055-PZM000	1340	TCL-VOCs / Depth	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ft x _____gal/ft = _____(gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW Sampling	Project Number: 180227m-1-2
Well Number: C0103-PZMXXX	Date: 12-19-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 13.12	Flow Rate (mL/min) 151
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 20.58	Condition of Pad/Cover: Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1021	0.0	13.12	12.90	12.23	1.04	1.16	-146	32.4	
1026	0.2	13.15	12.81	12.02	0.777	1.14	-153	8.0	
1031	0.4	13.15	12.72	11.18	0.498	2.99	-112	4.7	
1036	0.6	13.15	12.55	11.11	0.259	4.83	-86	0.0	
1041	0.8	13.15	12.33	11.08	0.256	5.04	-78	0.0	
1046	1.00	13.15	12.12	11.05	0.250	5.10	-71	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0103-PZMXXX	1050	TCL-VOCs Matrix	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

Low Flow Sampling
Permanent Wells

ARM Group Inc.
Earth Resource Engineers and Consultants

Project Name: COA GW Sampling	Project Number: 180227M-1-2
Well Number: C0102-PZMXXX	Date: 12/9-18
Well Diameter (in): 2	One Well Volume (gal): —
Depth to Product (ft): NA	QED Controller Settings: —
Depth to Water (ft): 12.41	Flow Rate (mL/min) 151
Product Thickness (ft): NA	Length of time Purged (min) 15
Depth to Bottom (ft): 19.38	Condition of Pad/Cover: OK / OK

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
1055	0.0	12.41	12.20	11.83	1.73	0.58	-219	18.1	
1100	0.20	12.43	12.06	11.69	1.74	0.23	-220	4.9	
1105	0.40	12.43	11.95	11.64	1.73	0.16	-228	4.6	
1110	0.60	12.43	11.88	11.59	1.72	0.09	-238	0.0	

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0102-PZMXXX	1115	TCL-VOCs (Naph)	3 - 40 mL VOA	HCl	Y
		TPH-GRO	3 - 40 mL VOA	HCl	N
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2- 1 L Amber	none	
		Oil & Grease	2- 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) **Field Filtered**	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) **Field Filtered**	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LCP

Comments:

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

_____ ft x _____ gal/ft = _____ (gal)

APPENDIX B

Laboratory Reports

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 01, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: Sparrows IM
Pace Project No.: 10418216

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Sparrows IM
Pace Project No.: 10418216

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Sparrows IM
Pace Project No.: 10418216

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10418216001	**Cell 2 AS/SVE**	Air	01/22/18 09:30	01/25/18 10:00
10418216002	**Cell 3 AS/SVE**	Air	01/22/18 10:00	01/25/18 10:00
10418216003	**Cell 1 AS/SVE**	Air	01/22/18 10:40	01/25/18 10:00
10418216004	**Cell 2 AS/SVE**	Air	01/23/18 10:00	01/25/18 10:00
10418216005	**Cell 3 AS/SVE**	Air	01/23/18 08:45	01/25/18 10:00
10418216006	**Cell 1 AS/SVE**	Air	01/23/18 08:30	01/25/18 10:00
10418216007	**Unused Can #1485**	Air		01/25/18 10:00
10418216008	**Unused Can #1476**	Air		01/25/18 10:00

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SAMPLE ANALYTE COUNT

Project: Sparrows IM
Pace Project No.: 10418216

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10418216001	**Cell 2 AS/SVE**	TO-15	CH1	51
10418216002	**Cell 3 AS/SVE**	TO-15	CH1	51
10418216003	**Cell 1 AS/SVE**	TO-15	CH1	51
10418216004	**Cell 2 AS/SVE**	TO-15	CH1	51
10418216005	**Cell 3 AS/SVE**	TO-15	CH1	51
10418216006	**Cell 1 AS/SVE**	TO-15	CH1	51

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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PROJECT NARRATIVE

Project: Sparrows IM
Pace Project No.: 10418216

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: February 01, 2018

General Information:
6 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 520580

A3: The sample was analyzed by serial dilution.
- Cell 1 AS/SVE (Lab ID: 10418216003)
  - Benzene
  - Toluene
- Cell 1 AS/SVE (Lab ID: 10418216006)
  - Benzene
  - Toluene
- Cell 3 AS/SVE (Lab ID: 10418216005)
  - Benzene
  - Toluene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- Cell 1 AS/SVE (Lab ID: 10418216006)
  - Ethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 2 AS/SVE **Lab ID: 10418216001** Collected: 01/22/18 09:30 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**102**	ug/m3	3.9	1.61		01/31/18 19:39	67-64-1	
Benzene	**3.0**	ug/m3	0.52	1.61		01/31/18 19:39	71-43-2	
Bromodichloromethane	ND	ug/m3	2.2	1.61		01/31/18 19:39	75-27-4	
Bromoform	ND	ug/m3	3.4	1.61		01/31/18 19:39	75-25-2	
Bromomethane	ND	ug/m3	1.3	1.61		01/31/18 19:39	74-83-9	
2-Butanone (MEK)	ND	ug/m3	4.8	1.61		01/31/18 19:39	78-93-3	
Carbon disulfide	ND	ug/m3	1.0	1.61		01/31/18 19:39	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.0	1.61		01/31/18 19:39	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.61		01/31/18 19:39	108-90-7	
Chloroethane	ND	ug/m3	0.86	1.61		01/31/18 19:39	75-00-3	
Chloroform	**2.9**	ug/m3	0.80	1.61		01/31/18 19:39	67-66-3	
Chloromethane	**8.4**	ug/m3	0.68	1.61		01/31/18 19:39	74-87-3	
Cyclohexane	ND	ug/m3	1.1	1.61		01/31/18 19:39	110-82-7	
Dibromochloromethane	ND	ug/m3	2.8	1.61		01/31/18 19:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.5	1.61		01/31/18 19:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.0	1.61		01/31/18 19:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	1.61		01/31/18 19:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2.0	1.61		01/31/18 19:39	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.6	1.61		01/31/18 19:39	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.61		01/31/18 19:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.66	1.61		01/31/18 19:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.61		01/31/18 19:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		01/31/18 19:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.61		01/31/18 19:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.61		01/31/18 19:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	1.61		01/31/18 19:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	1.61		01/31/18 19:39	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	5.9	1.61		01/31/18 19:39	123-91-1	
Ethylbenzene	ND	ug/m3	1.4	1.61		01/31/18 19:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.5	1.61		01/31/18 19:39	87-68-3	
2-Hexanone	ND	ug/m3	6.7	1.61		01/31/18 19:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	4.0	1.61		01/31/18 19:39	98-82-8	
Methylene Chloride	ND	ug/m3	5.7	1.61		01/31/18 19:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.7	1.61		01/31/18 19:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.9	1.61		01/31/18 19:39	1634-04-4	
Naphthalene	**4.7**	ug/m3	4.3	1.61		01/31/18 19:39	91-20-3	
Styrene	ND	ug/m3	1.4	1.61		01/31/18 19:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.61		01/31/18 19:39	79-34-5	
Tetrachloroethene	ND	ug/m3	1.1	1.61		01/31/18 19:39	127-18-4	
Toluene	**3.1**	ug/m3	1.2	1.61		01/31/18 19:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	6.1	1.61		01/31/18 19:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.61		01/31/18 19:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.89	1.61		01/31/18 19:39	79-00-5	
Trichloroethene	ND	ug/m3	0.88	1.61		01/31/18 19:39	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.8	1.61		01/31/18 19:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.4**	ug/m3	2.5	1.61		01/31/18 19:39	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	1.6	1.61		01/31/18 19:39	526-73-8	

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 2 AS/SVE **Lab ID: 10418216001** Collected: 01/22/18 09:30 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**3.1**	ug/m3	1.6	1.61		01/31/18 19:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	1.61		01/31/18 19:39	108-67-8	
Vinyl chloride	ND	ug/m3	0.42	1.61		01/31/18 19:39	75-01-4	
Xylene (Total)	ND	ug/m3	4.3	1.61		01/31/18 19:39	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 3 AS/SVE **Lab ID: 10418216002** Collected: 01/22/18 10:00 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**12.4**	ug/m3	4.0	1.64		01/31/18 20:19	67-64-1	
Benzene	**2.5**	ug/m3	0.53	1.64		01/31/18 20:19	71-43-2	
Bromodichloromethane	ND	ug/m3	2.2	1.64		01/31/18 20:19	75-27-4	
Bromoform	ND	ug/m3	3.4	1.64		01/31/18 20:19	75-25-2	
Bromomethane	ND	ug/m3	1.3	1.64		01/31/18 20:19	74-83-9	
2-Butanone (MEK)	ND	ug/m3	4.9	1.64		01/31/18 20:19	78-93-3	
Carbon disulfide	ND	ug/m3	1.0	1.64		01/31/18 20:19	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.0	1.64		01/31/18 20:19	56-23-5	
Chlorobenzene	ND	ug/m3	1.5	1.64		01/31/18 20:19	108-90-7	
Chloroethane	ND	ug/m3	0.88	1.64		01/31/18 20:19	75-00-3	
Chloroform	ND	ug/m3	0.81	1.64		01/31/18 20:19	67-66-3	
Chloromethane	**0.93**	ug/m3	0.69	1.64		01/31/18 20:19	74-87-3	
Cyclohexane	ND	ug/m3	1.1	1.64		01/31/18 20:19	110-82-7	
Dibromochloromethane	ND	ug/m3	2.8	1.64		01/31/18 20:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.6	1.64		01/31/18 20:19	106-93-4	
1,2-Dichlorobenzene	**18.9**	ug/m3	2.0	1.64		01/31/18 20:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.0	1.64		01/31/18 20:19	541-73-1	
1,4-Dichlorobenzene	**15.3**	ug/m3	2.0	1.64		01/31/18 20:19	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.7	1.64		01/31/18 20:19	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.3	1.64		01/31/18 20:19	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.67	1.64		01/31/18 20:19	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.3	1.64		01/31/18 20:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.3	1.64		01/31/18 20:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.3	1.64		01/31/18 20:19	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.5	1.64		01/31/18 20:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.5	1.64		01/31/18 20:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.5	1.64		01/31/18 20:19	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	6.0	1.64		01/31/18 20:19	123-91-1	
Ethylbenzene	ND	ug/m3	1.4	1.64		01/31/18 20:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.6	1.64		01/31/18 20:19	87-68-3	
2-Hexanone	ND	ug/m3	6.8	1.64		01/31/18 20:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	4.1	1.64		01/31/18 20:19	98-82-8	
Methylene Chloride	ND	ug/m3	5.8	1.64		01/31/18 20:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.8	1.64		01/31/18 20:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	6.0	1.64		01/31/18 20:19	1634-04-4	
Naphthalene	ND	ug/m3	4.4	1.64		01/31/18 20:19	91-20-3	
Styrene	ND	ug/m3	1.4	1.64		01/31/18 20:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.1	1.64		01/31/18 20:19	79-34-5	
Tetrachloroethene	ND	ug/m3	1.1	1.64		01/31/18 20:19	127-18-4	
Toluene	ND	ug/m3	1.3	1.64		01/31/18 20:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	6.2	1.64		01/31/18 20:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.8	1.64		01/31/18 20:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.91	1.64		01/31/18 20:19	79-00-5	
Trichloroethene	ND	ug/m3	0.90	1.64		01/31/18 20:19	79-01-6	
Trichlorofluoromethane	**2.1**	ug/m3	1.9	1.64		01/31/18 20:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.6	1.64		01/31/18 20:19	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	1.6	1.64		01/31/18 20:19	526-73-8	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 3 AS/SVE **Lab ID: 10418216002** Collected: 01/22/18 10:00 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1.6	1.64		01/31/18 20:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.6	1.64		01/31/18 20:19	108-67-8	
Vinyl chloride	ND	ug/m3	0.43	1.64		01/31/18 20:19	75-01-4	
Xylene (Total)	ND	ug/m3	4.3	1.64		01/31/18 20:19	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 1 AS/SVE **Lab ID: 10418216003** Collected: 01/22/18 10:40 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	3.5	1.44		01/31/18 20:59	67-64-1	
Benzene	**35900**	ug/m3	150	461		02/01/18 13:05	71-43-2	A3
Bromodichloromethane	ND	ug/m3	2.0	1.44		01/31/18 20:59	75-27-4	
Bromoform	ND	ug/m3	3.0	1.44		01/31/18 20:59	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.44		01/31/18 20:59	74-83-9	
2-Butanone (MEK)	ND	ug/m3	4.3	1.44		01/31/18 20:59	78-93-3	
Carbon disulfide	ND	ug/m3	0.91	1.44		01/31/18 20:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.92	1.44		01/31/18 20:59	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.44		01/31/18 20:59	108-90-7	
Chloroethane	ND	ug/m3	0.77	1.44		01/31/18 20:59	75-00-3	
Chloroform	ND	ug/m3	0.71	1.44		01/31/18 20:59	67-66-3	
Chloromethane	ND	ug/m3	0.60	1.44		01/31/18 20:59	74-87-3	
Cyclohexane	ND	ug/m3	1.0	1.44		01/31/18 20:59	110-82-7	
Dibromochloromethane	ND	ug/m3	2.5	1.44		01/31/18 20:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.2	1.44		01/31/18 20:59	106-93-4	
1,2-Dichlorobenzene	**14.4**	ug/m3	1.8	1.44		01/31/18 20:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.8	1.44		01/31/18 20:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.8	1.44		01/31/18 20:59	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.5	1.44		01/31/18 20:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.2	1.44		01/31/18 20:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.59	1.44		01/31/18 20:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.2	1.44		01/31/18 20:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		01/31/18 20:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.2	1.44		01/31/18 20:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.4	1.44		01/31/18 20:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.44		01/31/18 20:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.44		01/31/18 20:59	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	5.3	1.44		01/31/18 20:59	123-91-1	
Ethylbenzene	**85.0**	ug/m3	1.3	1.44		01/31/18 20:59	100-41-4	
Hexachloro-1,3-butadiene	**3.6**	ug/m3	3.1	1.44		01/31/18 20:59	87-68-3	
2-Hexanone	ND	ug/m3	6.0	1.44		01/31/18 20:59	591-78-6	
Isopropylbenzene (Cumene)	**7.1**	ug/m3	3.6	1.44		01/31/18 20:59	98-82-8	
Methylene Chloride	ND	ug/m3	5.1	1.44		01/31/18 20:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6.0	1.44		01/31/18 20:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.3	1.44		01/31/18 20:59	1634-04-4	
Naphthalene	ND	ug/m3	3.8	1.44		01/31/18 20:59	91-20-3	
Styrene	ND	ug/m3	1.2	1.44		01/31/18 20:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.0	1.44		01/31/18 20:59	79-34-5	
Tetrachloroethene	ND	ug/m3	0.99	1.44		01/31/18 20:59	127-18-4	
Toluene	**364**	ug/m3	353	461		02/01/18 13:05	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.44		01/31/18 20:59	120-82-1	
1,1,1-Trichloroethane	**7.0**	ug/m3	1.6	1.44		01/31/18 20:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.80	1.44		01/31/18 20:59	79-00-5	
Trichloroethene	ND	ug/m3	0.79	1.44		01/31/18 20:59	79-01-6	
Trichlorofluoromethane	**2.3**	ug/m3	1.6	1.44		01/31/18 20:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.44		01/31/18 20:59	76-13-1	
1,2,3-Trimethylbenzene	**4.2**	ug/m3	1.4	1.44		01/31/18 20:59	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 1 AS/SVE **Lab ID: 10418216003** Collected: 01/22/18 10:40 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**16.9**	ug/m3	1.4	1.44		01/31/18 20:59	95-63-6	
1,3,5-Trimethylbenzene	**30.8**	ug/m3	1.4	1.44		01/31/18 20:59	108-67-8	
Vinyl chloride	ND	ug/m3	0.37	1.44		01/31/18 20:59	75-01-4	
Xylene (Total)	**391**	ug/m3	3.8	1.44		01/31/18 20:59	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 2 AS/SVE **Lab ID: 10418216004** Collected: 01/23/18 10:00 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**20.5**	ug/m3	3.2	1.34		01/31/18 21:39	67-64-1	
Benzene	**2.1**	ug/m3	0.44	1.34		01/31/18 21:39	71-43-2	
Bromodichloromethane	ND	ug/m3	1.8	1.34		01/31/18 21:39	75-27-4	
Bromoform	ND	ug/m3	2.8	1.34		01/31/18 21:39	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.34		01/31/18 21:39	74-83-9	
2-Butanone (MEK)	**6.4**	ug/m3	4.0	1.34		01/31/18 21:39	78-93-3	
Carbon disulfide	ND	ug/m3	0.85	1.34		01/31/18 21:39	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	1.34		01/31/18 21:39	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.34		01/31/18 21:39	108-90-7	
Chloroethane	ND	ug/m3	0.72	1.34		01/31/18 21:39	75-00-3	
Chloroform	ND	ug/m3	0.66	1.34		01/31/18 21:39	67-66-3	
Chloromethane	**2.2**	ug/m3	0.56	1.34		01/31/18 21:39	74-87-3	
Cyclohexane	ND	ug/m3	0.94	1.34		01/31/18 21:39	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.34		01/31/18 21:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.34		01/31/18 21:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	1.34		01/31/18 21:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	1.34		01/31/18 21:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	1.34		01/31/18 21:39	106-46-7	
Dichlorodifluoromethane	**2.6**	ug/m3	1.4	1.34		01/31/18 21:39	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		01/31/18 21:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	1.34		01/31/18 21:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		01/31/18 21:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/31/18 21:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		01/31/18 21:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	1.34		01/31/18 21:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	1.34		01/31/18 21:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	1.34		01/31/18 21:39	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.9	1.34		01/31/18 21:39	123-91-1	
Ethylbenzene	ND	ug/m3	1.2	1.34		01/31/18 21:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	1.34		01/31/18 21:39	87-68-3	
2-Hexanone	ND	ug/m3	5.6	1.34		01/31/18 21:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	3.4	1.34		01/31/18 21:39	98-82-8	
Methylene Chloride	ND	ug/m3	4.7	1.34		01/31/18 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	1.34		01/31/18 21:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	1.34		01/31/18 21:39	1634-04-4	
Naphthalene	ND	ug/m3	3.6	1.34		01/31/18 21:39	91-20-3	
Styrene	ND	ug/m3	1.2	1.34		01/31/18 21:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	1.34		01/31/18 21:39	79-34-5	
Tetrachloroethene	ND	ug/m3	0.92	1.34		01/31/18 21:39	127-18-4	
Toluene	ND	ug/m3	1.0	1.34		01/31/18 21:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.34		01/31/18 21:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		01/31/18 21:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	1.34		01/31/18 21:39	79-00-5	
Trichloroethene	ND	ug/m3	0.73	1.34		01/31/18 21:39	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	1.34		01/31/18 21:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	1.34		01/31/18 21:39	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	1.3	1.34		01/31/18 21:39	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 2 AS/SVE **Lab ID: 10418216004** Collected: 01/23/18 10:00 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	1.34		01/31/18 21:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	1.34		01/31/18 21:39	108-67-8	
Vinyl chloride	ND	ug/m3	0.35	1.34		01/31/18 21:39	75-01-4	
Xylene (Total)	ND	ug/m3	3.6	1.34		01/31/18 21:39	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 3 AS/SVE **Lab ID: 10418216005** Collected: 01/23/18 08:45 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	3.3	1.36		01/31/18 22:19	67-64-1	
Benzene	**17500**	ug/m3	70.8	218		02/01/18 12:32	71-43-2	A3
Bromodichloromethane	ND	ug/m3	1.8	1.36		01/31/18 22:19	75-27-4	
Bromoform	ND	ug/m3	2.9	1.36		01/31/18 22:19	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.36		01/31/18 22:19	74-83-9	
2-Butanone (MEK)	ND	ug/m3	4.1	1.36		01/31/18 22:19	78-93-3	
Carbon disulfide	**1.3**	ug/m3	0.86	1.36		01/31/18 22:19	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.87	1.36		01/31/18 22:19	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.36		01/31/18 22:19	108-90-7	
Chloroethane	ND	ug/m3	0.73	1.36		01/31/18 22:19	75-00-3	
Chloroform	ND	ug/m3	0.67	1.36		01/31/18 22:19	67-66-3	
Chloromethane	ND	ug/m3	0.57	1.36		01/31/18 22:19	74-87-3	
Cyclohexane	ND	ug/m3	0.95	1.36		01/31/18 22:19	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.36		01/31/18 22:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.36		01/31/18 22:19	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	1.36		01/31/18 22:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	1.36		01/31/18 22:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.7	1.36		01/31/18 22:19	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.4	1.36		01/31/18 22:19	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.36		01/31/18 22:19	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.56	1.36		01/31/18 22:19	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	1.36		01/31/18 22:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.36		01/31/18 22:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.36		01/31/18 22:19	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	1.36		01/31/18 22:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.36		01/31/18 22:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.36		01/31/18 22:19	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	5.0	1.36		01/31/18 22:19	123-91-1	
Ethylbenzene	**14.7**	ug/m3	1.2	1.36		01/31/18 22:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	3.0	1.36		01/31/18 22:19	87-68-3	
2-Hexanone	ND	ug/m3	5.7	1.36		01/31/18 22:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	3.4	1.36		01/31/18 22:19	98-82-8	
Methylene Chloride	ND	ug/m3	4.8	1.36		01/31/18 22:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.7	1.36		01/31/18 22:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.0	1.36		01/31/18 22:19	1634-04-4	
Naphthalene	ND	ug/m3	3.6	1.36		01/31/18 22:19	91-20-3	
Styrene	ND	ug/m3	1.2	1.36		01/31/18 22:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.95	1.36		01/31/18 22:19	79-34-5	
Tetrachloroethene	ND	ug/m3	0.94	1.36		01/31/18 22:19	127-18-4	
Toluene	**1070**	ug/m3	167	218		02/01/18 12:32	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.36		01/31/18 22:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.36		01/31/18 22:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.75	1.36		01/31/18 22:19	79-00-5	
Trichloroethene	ND	ug/m3	0.74	1.36		01/31/18 22:19	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.6	1.36		01/31/18 22:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	1.36		01/31/18 22:19	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	1.4	1.36		01/31/18 22:19	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 3 AS/SVE **Lab ID: 10418216005** Collected: 01/23/18 08:45 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**2.0**	ug/m3	1.4	1.36		01/31/18 22:19	95-63-6	
1,3,5-Trimethylbenzene	**3.7**	ug/m3	1.4	1.36		01/31/18 22:19	108-67-8	
Vinyl chloride	ND	ug/m3	0.35	1.36		01/31/18 22:19	75-01-4	
Xylene (Total)	**148**	ug/m3	3.6	1.36		01/31/18 22:19	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 1 AS/SVE **Lab ID: 10418216006** Collected: 01/23/18 08:30 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	3.1	1.3		01/31/18 22:58	67-64-1	
Benzene	**243000**	ug/m3	5410	16640		02/01/18 14:46	71-43-2	A3
Bromodichloromethane	ND	ug/m3	1.8	1.3		01/31/18 22:58	75-27-4	
Bromoform	ND	ug/m3	2.7	1.3		01/31/18 22:58	75-25-2	
Bromomethane	ND	ug/m3	1.0	1.3		01/31/18 22:58	74-83-9	
2-Butanone (MEK)	ND	ug/m3	3.9	1.3		01/31/18 22:58	78-93-3	
Carbon disulfide	**1.7**	ug/m3	0.82	1.3		01/31/18 22:58	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.83	1.3		01/31/18 22:58	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	1.3		01/31/18 22:58	108-90-7	
Chloroethane	ND	ug/m3	0.70	1.3		01/31/18 22:58	75-00-3	
Chloroform	ND	ug/m3	0.64	1.3		01/31/18 22:58	67-66-3	
Chloromethane	ND	ug/m3	0.55	1.3		01/31/18 22:58	74-87-3	
Cyclohexane	ND	ug/m3	0.91	1.3		01/31/18 22:58	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.3		01/31/18 22:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	1.3		01/31/18 22:58	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	1.3		01/31/18 22:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	1.3		01/31/18 22:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	1.3		01/31/18 22:58	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.3	1.3		01/31/18 22:58	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.3		01/31/18 22:58	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.53	1.3		01/31/18 22:58	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	1.3		01/31/18 22:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		01/31/18 22:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		01/31/18 22:58	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	1.3		01/31/18 22:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		01/31/18 22:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		01/31/18 22:58	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.8	1.3		01/31/18 22:58	123-91-1	
Ethylbenzene	**238**	ug/m3	1.1	1.3		01/31/18 22:58	100-41-4	E
Hexachloro-1,3-butadiene	ND	ug/m3	2.8	1.3		01/31/18 22:58	87-68-3	
2-Hexanone	ND	ug/m3	5.4	1.3		01/31/18 22:58	591-78-6	
Isopropylbenzene (Cumene)	**14.4**	ug/m3	3.2	1.3		01/31/18 22:58	98-82-8	
Methylene Chloride	ND	ug/m3	4.6	1.3		01/31/18 22:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.4	1.3		01/31/18 22:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.8	1.3		01/31/18 22:58	1634-04-4	
Naphthalene	ND	ug/m3	3.5	1.3		01/31/18 22:58	91-20-3	
Styrene	ND	ug/m3	1.1	1.3		01/31/18 22:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.91	1.3		01/31/18 22:58	79-34-5	
Tetrachloroethene	ND	ug/m3	0.90	1.3		01/31/18 22:58	127-18-4	
Toluene	**2910**	ug/m3	797	1040		02/01/18 13:36	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	4.9	1.3		01/31/18 22:58	120-82-1	
1,1,1-Trichloroethane	**4.6**	ug/m3	1.4	1.3		01/31/18 22:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.72	1.3		01/31/18 22:58	79-00-5	
Trichloroethene	ND	ug/m3	0.71	1.3		01/31/18 22:58	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	1.3		01/31/18 22:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	1.3		01/31/18 22:58	76-13-1	
1,2,3-Trimethylbenzene	**10**	ug/m3	1.3	1.3		01/31/18 22:58	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10418216

Sample: Cell 1 AS/SVE **Lab ID: 10418216006** Collected: 01/23/18 08:30 Received: 01/25/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**33.3**	ug/m3	1.3	1.3		01/31/18 22:58	95-63-6	
1,3,5-Trimethylbenzene	**80.7**	ug/m3	1.3	1.3		01/31/18 22:58	108-67-8	
Vinyl chloride	ND	ug/m3	0.34	1.3		01/31/18 22:58	75-01-4	
Xylene (Total)	**850**	ug/m3	3.4	1.3		01/31/18 22:58	1330-20-7	ES

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QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10418216

QC Batch: 520580 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10418216001, 10418216002, 10418216003, 10418216004, 10418216005, 10418216006

METHOD BLANK: 2826638 Matrix: Air
Associated Lab Samples: 10418216001, 10418216002, 10418216003, 10418216004, 10418216005, 10418216006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	01/31/18 12:59	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	01/31/18 12:59	
1,1,2-Trichloroethane	ug/m3	ND	0.56	01/31/18 12:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	01/31/18 12:59	
1,1-Dichloroethane	ug/m3	ND	0.82	01/31/18 12:59	
1,1-Dichloroethene	ug/m3	ND	0.81	01/31/18 12:59	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	01/31/18 12:59	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	01/31/18 12:59	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	01/31/18 12:59	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	01/31/18 12:59	
1,2-Dichlorobenzene	ug/m3	ND	1.2	01/31/18 12:59	
1,2-Dichloroethane	ug/m3	ND	0.41	01/31/18 12:59	
1,2-Dichloropropane	ug/m3	ND	0.94	01/31/18 12:59	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	01/31/18 12:59	
1,3-Dichlorobenzene	ug/m3	ND	1.2	01/31/18 12:59	
1,4-Dichlorobenzene	ug/m3	ND	1.2	01/31/18 12:59	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	01/31/18 12:59	
2-Butanone (MEK)	ug/m3	ND	3.0	01/31/18 12:59	
2-Hexanone	ug/m3	ND	4.2	01/31/18 12:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	01/31/18 12:59	
Acetone	ug/m3	ND	2.4	01/31/18 12:59	
Benzene	ug/m3	ND	0.32	01/31/18 12:59	
Bromodichloromethane	ug/m3	ND	1.4	01/31/18 12:59	
Bromoform	ug/m3	ND	2.1	01/31/18 12:59	
Bromomethane	ug/m3	ND	0.79	01/31/18 12:59	
Carbon disulfide	ug/m3	ND	0.63	01/31/18 12:59	
Carbon tetrachloride	ug/m3	ND	0.64	01/31/18 12:59	
Chlorobenzene	ug/m3	ND	0.94	01/31/18 12:59	
Chloroethane	ug/m3	ND	0.54	01/31/18 12:59	
Chloroform	ug/m3	ND	0.50	01/31/18 12:59	
Chloromethane	ug/m3	ND	0.42	01/31/18 12:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	01/31/18 12:59	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	01/31/18 12:59	
Cyclohexane	ug/m3	ND	0.70	01/31/18 12:59	
Dibromochloromethane	ug/m3	ND	1.7	01/31/18 12:59	
Dichlorodifluoromethane	ug/m3	ND	1.0	01/31/18 12:59	
Ethylbenzene	ug/m3	ND	0.88	01/31/18 12:59	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	01/31/18 12:59	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	01/31/18 12:59	
Methyl-tert-butyl ether	ug/m3	ND	3.7	01/31/18 12:59	
Methylene Chloride	ug/m3	ND	3.5	01/31/18 12:59	

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QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10418216

METHOD BLANK: 2826638 Matrix: Air
Associated Lab Samples: 10418216001, 10418216002, 10418216003, 10418216004, 10418216005, 10418216006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	01/31/18 12:59	
Styrene	ug/m3	ND	0.87	01/31/18 12:59	
Tetrachloroethene	ug/m3	ND	0.69	01/31/18 12:59	
Toluene	ug/m3	ND	0.77	01/31/18 12:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	01/31/18 12:59	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	01/31/18 12:59	
Trichloroethene	ug/m3	ND	0.55	01/31/18 12:59	
Trichlorofluoromethane	ug/m3	ND	1.1	01/31/18 12:59	
Vinyl chloride	ug/m3	ND	0.26	01/31/18 12:59	
Xylene (Total)	ug/m3	ND	2.6	01/31/18 12:59	

LABORATORY CONTROL SAMPLE: 2826639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.4	98	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	76.6	110	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	57.2	103	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	75.5	97	63-139	
1,1-Dichloroethane	ug/m3	41.1	40.6	99	70-134	
1,1-Dichloroethene	ug/m3	40.3	40.0	99	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	55.0	110	69-150	
1,2,4-Trichlorobenzene	ug/m3	75.4	77.6	103	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	54.6	109	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	84.4	108	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	69.2	113	70-137	
1,2-Dichloroethane	ug/m3	41.1	40.5	98	70-136	
1,2-Dichloropropane	ug/m3	47	50.4	107	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	52.5	105	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	67.7	111	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	68.9	113	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	38.6	105	70-145	
2-Butanone (MEK)	ug/m3	30	31.3	104	65-143	
2-Hexanone	ug/m3	104	113	109	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	108	104	70-135	
Acetone	ug/m3	121	112	93	59-132	
Benzene	ug/m3	32.5	33.3	103	70-134	
Bromodichloromethane	ug/m3	68.1	70.7	104	70-142	
Bromoform	ug/m3	105	123	117	69-150	
Bromomethane	ug/m3	39.5	37.7	95	61-141	
Carbon disulfide	ug/m3	31.6	31.5	100	66-134	
Carbon tetrachloride	ug/m3	64	62.9	98	60-145	
Chlorobenzene	ug/m3	46.8	49.4	106	70-130	
Chloroethane	ug/m3	26.8	25.7	96	65-143	
Chloroform	ug/m3	49.6	50.3	101	70-132	

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QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10418216

LABORATORY CONTROL SAMPLE: 2826639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	21.1	100	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	41.0	102	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	47.8	104	70-136	
Cyclohexane	ug/m3	35	34.9	100	70-133	
Dibromochloromethane	ug/m3	86.6	94.7	109	68-149	
Dichlorodifluoromethane	ug/m3	50.3	49.3	98	69-130	
Ethylbenzene	ug/m3	44.1	47.1	107	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	124	115	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	53.6	107	70-133	
Methyl-tert-butyl ether	ug/m3	91.6	89.5	98	70-132	
Methylene Chloride	ug/m3	177	166	94	67-132	
Naphthalene	ug/m3	53.3	56.7	106	55-136	
Styrene	ug/m3	43.3	51.0	118	70-139	
Tetrachloroethene	ug/m3	68.9	67.4	98	70-133	
Toluene	ug/m3	38.3	38.2	100	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	40.2	100	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	49.0	106	70-135	
Trichloroethene	ug/m3	54.6	56.0	103	70-135	
Trichlorofluoromethane	ug/m3	57.1	54.5	95	59-140	
Vinyl chloride	ug/m3	26	27.5	106	70-141	
Xylene (Total)	ug/m3	132	140	106	70-138	

SAMPLE DUPLICATE: 2827800

Parameter	Units	10417692001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	.57J		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10418216

SAMPLE DUPLICATE: 2827800

Parameter	Units	10417692001 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	12.9	13.5	5	25	
Benzene	ug/m3	1.3	1.3	3	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	1.0	1.1	11	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.6	2.9	11	25	
Ethylbenzene	ug/m3	ND	.65J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	8.4	8.6	2	25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	2.8	2.9	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	1.5	1.5	2	25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	ND	ND		25	

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QUALIFIERS

Project: Sparrows IM
Pace Project No.: 10418216

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sparrows IM
Pace Project No.: 10418216

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10418216001	**Cell 2 AS/SVE**	TO-15	520580		
10418216002	**Cell 3 AS/SVE**	TO-15	520580		
10418216003	**Cell 1 AS/SVE**	TO-15	520580		
10418216004	**Cell 2 AS/SVE**	TO-15	520580		
10418216005	**Cell 3 AS/SVE**	TO-15	520580		
10418216006	**Cell 1 AS/SVE**	TO-15	520580		

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10418216

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30944

Page: 1 of 1

Section A Required Client Information:

Company: EAG
Address: 1600 Sparrows Point Blvd, Suite 132
Email To: jburke@enviroanalytics group.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Catenacci
Copy To: Josh Burke
Purchase Order No.:
Project Name: Sparrows IM
Project Number:

Section C Invoice Information:

Attention: Laura Sargent
Company Name: Enviro Analytics Group
Address: 1650 Des Peres Rd, Suite 303 St. Louis MO
Pace Quote Reference: 63131
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: MD

Reporting Units: ug/m³ ☐ mg/m³ ☐ PPBV ☒ PPMV ☐ Other ☐

Report Level: II. ☐ III. ☐ IV. ☐ Other ☐

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 2 AS/SVE	6LC				1-22-18	0930	-30	-6	316							X				001
2	Cell 3 AS/SVE	6LC				1-22-18	1000	-30	-4	679							X				002
3	~~UNUSED~~	~~6LC~~				1-22-18		-30		1485							X				
4	Cell 1 AS/SVE	6LC				1-22-18	1040	-30	-3	436							X				003
5	~~UNUSED~~	~~6LC~~								1476							X				
6	Cell 2 AS/SVE	6LC				1-23-18	1000	-30	-1	743							X				004
7	Cell 3 AS/SVE	6LC				1-23-18	0845	-30	0	0010							X				005
8	Cell 1 AS/SVE	6LC				1-23-18	0830	-30	0	716							X				006
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	1-24-18	0900	PACE	1-25-18	1000

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Dec2017 Page 1 of 1
	Document No.: F-MN-A-106-rev.14	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO# : 10418216

10418216

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7476 3084 4484 /4495

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ 151401163 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 1-25-18 AA

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Contains Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11. Individually Certified Cans Y (N) (list which samples)
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: FFFT Stand alone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 2 (1-22)			-5	+5					
Cell 3 "			-5.5	"					
Cell 1 "			-2	"					
Cell 2 (1-23)			0	"					
Cell 3 "			-0.5	"					
Cell 1 "			+0.5	"					
Unused can	1485	—	-30	—					
"	1476	—	-29	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg Date: 1/29/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

February 26, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: Sparrows IM
Pace Project No.: 10421103

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: Sparrows IM
Pace Project No.: 10421103

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Sparrows IM
Pace Project No.: 10421103

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10421103001	**Cell 2 AS/SVE**	Air	02/13/18 09:00	02/19/18 09:00
10421103002	**Cell 3 AS/SVE**	Air	02/13/18 09:30	02/19/18 09:00
10421103003	**Cell 5 EFF Vapor**	Air	02/14/18 12:30	02/19/18 09:00
10421103004	**Cell 5 INF Vapor**	Air	02/14/18 13:00	02/19/18 09:00
10421103005	**Cell 2 AST**	Air	02/14/18 14:05	02/19/18 09:00
10421103006	**Unused Can #0630**	Air		02/19/18 09:00
10421103007	**Unused Can #1183**	Air		02/19/18 09:00
10421103008	**Unused Can #0570**	Air		02/19/18 09:00

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SAMPLE ANALYTE COUNT

Project: Sparrows IM
Pace Project No.: 10421103

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10421103001	**Cell 2 AS/SVE**	TO-15	MJL	51
10421103002	**Cell 3 AS/SVE**	TO-15	MJL	51
10421103003	**Cell 5 EFF Vapor**	TO-15	MJL	51
10421103004	**Cell 5 INF Vapor**	TO-15	MJL	51
10421103005	**Cell 2 AST**	TO-15	MJL	51

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PROJECT NARRATIVE

Project: Sparrows IM
Pace Project No.: 10421103

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: February 26, 2018

General Information:
5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 524512

A3: The sample was analyzed by serial dilution.
- Cell 2 AST (Lab ID: 10421103005)
  - Benzene
  - Toluene
- Cell 3 AS/SVE (Lab ID: 10421103002)
  - Benzene
  - Toluene
- Cell 5 EFF Vapor (Lab ID: 10421103003)
  - Benzene
  - Naphthalene
  - Toluene

C8: Result may be biased high due to carryover from previously analyzed sample.
- Cell 3 AS/SVE (Lab ID: 10421103002)
  - Tetrachloroethene

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Sparrows IM
Pace Project No.: 10421103

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: February 26, 2018

Analyte Comments:

QC Batch: 524512

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- Cell 2 AST (Lab ID: 10421103005)
  - Benzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 2 AS/SVE **Lab ID: 10421103001** Collected: 02/13/18 09:00 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**38.0**	ug/m3	3.1	1.3		02/23/18 20:29	67-64-1	
Benzene	**1.5**	ug/m3	0.42	1.3		02/23/18 20:29	71-43-2	
Bromodichloromethane	ND	ug/m3	1.8	1.3		02/23/18 20:29	75-27-4	
Bromoform	ND	ug/m3	2.7	1.3		02/23/18 20:29	75-25-2	
Bromomethane	ND	ug/m3	1.0	1.3		02/23/18 20:29	74-83-9	
2-Butanone (MEK)	**22.0**	ug/m3	3.9	1.3		02/23/18 20:29	78-93-3	
Carbon disulfide	ND	ug/m3	0.82	1.3		02/23/18 20:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.83	1.3		02/23/18 20:29	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	1.3		02/23/18 20:29	108-90-7	
Chloroethane	ND	ug/m3	0.70	1.3		02/23/18 20:29	75-00-3	
Chloroform	**1.1**	ug/m3	0.64	1.3		02/23/18 20:29	67-66-3	
Chloromethane	**5.1**	ug/m3	0.55	1.3		02/23/18 20:29	74-87-3	
Cyclohexane	ND	ug/m3	0.91	1.3		02/23/18 20:29	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.3		02/23/18 20:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	1.3		02/23/18 20:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	1.3		02/23/18 20:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	1.3		02/23/18 20:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	1.3		02/23/18 20:29	106-46-7	
Dichlorodifluoromethane	**2.4**	ug/m3	1.3	1.3		02/23/18 20:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.3		02/23/18 20:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.53	1.3		02/23/18 20:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	1.3		02/23/18 20:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		02/23/18 20:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		02/23/18 20:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	1.3		02/23/18 20:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		02/23/18 20:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		02/23/18 20:29	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.8	1.3		02/23/18 20:29	123-91-1	
Ethylbenzene	ND	ug/m3	1.1	1.3		02/23/18 20:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	2.8	1.3		02/23/18 20:29	87-68-3	
2-Hexanone	ND	ug/m3	5.4	1.3		02/23/18 20:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	3.2	1.3		02/23/18 20:29	98-82-8	
Methylene Chloride	ND	ug/m3	4.6	1.3		02/23/18 20:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.4	1.3		02/23/18 20:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.8	1.3		02/23/18 20:29	1634-04-4	
Naphthalene	ND	ug/m3	3.5	1.3		02/23/18 20:29	91-20-3	
Styrene	ND	ug/m3	1.1	1.3		02/23/18 20:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.91	1.3		02/23/18 20:29	79-34-5	
Tetrachloroethene	ND	ug/m3	0.90	1.3		02/24/18 13:18	127-18-4	
Toluene	ND	ug/m3	1.0	1.3		02/23/18 20:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.9	1.3		02/23/18 20:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.3		02/23/18 20:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.72	1.3		02/23/18 20:29	79-00-5	
Trichloroethene	ND	ug/m3	0.71	1.3		02/23/18 20:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	1.3		02/23/18 20:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	1.3		02/23/18 20:29	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	1.3	1.3		02/23/18 20:29	526-73-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 2 AS/SVE **Lab ID: 10421103001** Collected: 02/13/18 09:00 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	1.3		02/23/18 20:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	1.3		02/23/18 20:29	108-67-8	
Vinyl chloride	ND	ug/m3	0.34	1.3		02/23/18 20:29	75-01-4	
Xylene (Total)	ND	ug/m3	3.4	1.3		02/23/18 20:29	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 3 AS/SVE **Lab ID: 10421103002** Collected: 02/13/18 09:30 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**13.4**	ug/m3	3.2	1.34		02/23/18 21:04	67-64-1	
Benzene	**12100**	ug/m3	139	428.38		02/24/18 14:25	71-43-2	A3
Bromodichloromethane	ND	ug/m3	1.8	1.34		02/23/18 21:04	75-27-4	
Bromoform	ND	ug/m3	2.8	1.34		02/23/18 21:04	75-25-2	
Bromomethane	ND	ug/m3	1.1	1.34		02/23/18 21:04	74-83-9	
2-Butanone (MEK)	ND	ug/m3	4.0	1.34		02/23/18 21:04	78-93-3	
Carbon disulfide	**1.9**	ug/m3	0.85	1.34		02/23/18 21:04	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.86	1.34		02/23/18 21:04	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.34		02/23/18 21:04	108-90-7	
Chloroethane	ND	ug/m3	0.72	1.34		02/23/18 21:04	75-00-3	
Chloroform	ND	ug/m3	0.66	1.34		02/23/18 21:04	67-66-3	
Chloromethane	**0.92**	ug/m3	0.56	1.34		02/23/18 21:04	74-87-3	
Cyclohexane	**2.6**	ug/m3	0.94	1.34		02/23/18 21:04	110-82-7	
Dibromochloromethane	ND	ug/m3	2.3	1.34		02/23/18 21:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.1	1.34		02/23/18 21:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	1.34		02/23/18 21:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	1.34		02/23/18 21:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	1.34		02/23/18 21:04	106-46-7	
Dichlorodifluoromethane	**2.8**	ug/m3	1.4	1.34		02/23/18 21:04	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.34		02/23/18 21:04	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.55	1.34		02/23/18 21:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	1.34		02/23/18 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		02/23/18 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.34		02/23/18 21:04	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	1.34		02/23/18 21:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	1.34		02/23/18 21:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	1.34		02/23/18 21:04	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.9	1.34		02/23/18 21:04	123-91-1	
Ethylbenzene	**23.0**	ug/m3	1.2	1.34		02/23/18 21:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	2.9	1.34		02/23/18 21:04	87-68-3	
2-Hexanone	ND	ug/m3	5.6	1.34		02/23/18 21:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	3.4	1.34		02/23/18 21:04	98-82-8	
Methylene Chloride	**60.9**	ug/m3	4.7	1.34		02/23/18 21:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.6	1.34		02/23/18 21:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.9	1.34		02/23/18 21:04	1634-04-4	
Naphthalene	ND	ug/m3	3.6	1.34		02/23/18 21:04	91-20-3	
Styrene	**1.5**	ug/m3	1.2	1.34		02/23/18 21:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.94	1.34		02/23/18 21:04	79-34-5	
Tetrachloroethene	**6.0**	ug/m3	0.92	1.34		02/23/18 21:04	127-18-4	C8
Toluene	**1110**	ug/m3	328	428.38		02/24/18 14:25	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	5.1	1.34		02/23/18 21:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.5	1.34		02/23/18 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.74	1.34		02/23/18 21:04	79-00-5	
Trichloroethene	ND	ug/m3	0.73	1.34		02/23/18 21:04	79-01-6	
Trichlorofluoromethane	**1.7**	ug/m3	1.5	1.34		02/23/18 21:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.1	1.34		02/23/18 21:04	76-13-1	
1,2,3-Trimethylbenzene	**2.3**	ug/m3	1.3	1.34		02/23/18 21:04	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 3 AS/SVE **Lab ID: 10421103002** Collected: 02/13/18 09:30 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**6.0**	ug/m3	1.3	1.34		02/23/18 21:04	95-63-6	
1,3,5-Trimethylbenzene	**11.4**	ug/m3	1.3	1.34		02/23/18 21:04	108-67-8	
Vinyl chloride	ND	ug/m3	0.35	1.34		02/23/18 21:04	75-01-4	
Xylene (Total)	**312**	ug/m3	3.6	1.34		02/23/18 21:04	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 5 EFF Vapor **Lab ID: 10421103003** Collected: 02/14/18 12:30 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	30.4	12.6		02/23/18 22:13	67-64-1	
Benzene	**5020**	ug/m3	24.6	75.6		02/24/18 13:51	71-43-2	A3
Bromodichloromethane	ND	ug/m3	17.1	12.6		02/23/18 22:13	75-27-4	
Bromoform	ND	ug/m3	26.5	12.6		02/23/18 22:13	75-25-2	
Bromomethane	ND	ug/m3	9.9	12.6		02/23/18 22:13	74-83-9	
2-Butanone (MEK)	ND	ug/m3	37.8	12.6		02/23/18 22:13	78-93-3	
Carbon disulfide	ND	ug/m3	8.0	12.6		02/23/18 22:13	75-15-0	
Carbon tetrachloride	ND	ug/m3	8.1	12.6		02/23/18 22:13	56-23-5	
Chlorobenzene	ND	ug/m3	11.8	12.6		02/23/18 22:13	108-90-7	
Chloroethane	ND	ug/m3	6.8	12.6		02/23/18 22:13	75-00-3	
Chloroform	ND	ug/m3	6.2	12.6		02/23/18 22:13	67-66-3	
Chloromethane	ND	ug/m3	5.3	12.6		02/23/18 22:13	74-87-3	
Cyclohexane	ND	ug/m3	8.8	12.6		02/23/18 22:13	110-82-7	
Dibromochloromethane	ND	ug/m3	21.8	12.6		02/23/18 22:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	19.7	12.6		02/23/18 22:13	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	15.4	12.6		02/23/18 22:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	15.4	12.6		02/23/18 22:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	15.4	12.6		02/23/18 22:13	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	12.7	12.6		02/23/18 22:13	75-71-8	
1,1-Dichloroethane	ND	ug/m3	10.4	12.6		02/23/18 22:13	75-34-3	
1,2-Dichloroethane	ND	ug/m3	5.2	12.6		02/23/18 22:13	107-06-2	
1,1-Dichloroethene	ND	ug/m3	10.2	12.6		02/23/18 22:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	10.2	12.6		02/23/18 22:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	10.2	12.6		02/23/18 22:13	156-60-5	
1,2-Dichloropropane	ND	ug/m3	11.8	12.6		02/23/18 22:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	11.6	12.6		02/23/18 22:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	11.6	12.6		02/23/18 22:13	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	46.1	12.6		02/23/18 22:13	123-91-1	
Ethylbenzene	**209**	ug/m3	11.1	12.6		02/23/18 22:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	27.3	12.6		02/23/18 22:13	87-68-3	
2-Hexanone	ND	ug/m3	52.4	12.6		02/23/18 22:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	31.5	12.6		02/23/18 22:13	98-82-8	
Methylene Chloride	ND	ug/m3	44.5	12.6		02/23/18 22:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	52.4	12.6		02/23/18 22:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	46.1	12.6		02/23/18 22:13	1634-04-4	
Naphthalene	**6560**	ug/m3	201	75.6		02/24/18 13:51	91-20-3	A3
Styrene	**967**	ug/m3	10.9	12.6		02/23/18 22:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.8	12.6		02/23/18 22:13	79-34-5	
Tetrachloroethene	**44.4**	ug/m3	8.7	12.6		02/23/18 22:13	127-18-4	
Toluene	**3620**	ug/m3	57.9	75.6		02/24/18 13:51	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	47.5	12.6		02/23/18 22:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	14.0	12.6		02/23/18 22:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	7.0	12.6		02/23/18 22:13	79-00-5	
Trichloroethene	ND	ug/m3	6.9	12.6		02/23/18 22:13	79-01-6	
Trichlorofluoromethane	ND	ug/m3	14.4	12.6		02/23/18 22:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	19.7	12.6		02/23/18 22:13	76-13-1	
1,2,3-Trimethylbenzene	**152**	ug/m3	12.6	12.6		02/23/18 22:13	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 5 EFF Vapor **Lab ID: 10421103003** Collected: 02/14/18 12:30 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**605**	ug/m3	12.6	12.6		02/23/18 22:13	95-63-6	
1,3,5-Trimethylbenzene	**319**	ug/m3	12.6	12.6		02/23/18 22:13	108-67-8	
Vinyl chloride	ND	ug/m3	3.3	12.6		02/23/18 22:13	75-01-4	
Xylene (Total)	**4040**	ug/m3	33.4	12.6		02/23/18 22:13	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 5 INF Vapor **Lab ID: 10421103004** Collected: 02/14/18 13:00 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	10.8	4.49		02/23/18 21:39	67-64-1	
Benzene	**48.3**	ug/m3	1.5	4.49		02/23/18 21:39	71-43-2	
Bromodichloromethane	ND	ug/m3	6.1	4.49		02/23/18 21:39	75-27-4	
Bromoform	ND	ug/m3	9.4	4.49		02/23/18 21:39	75-25-2	
Bromomethane	ND	ug/m3	3.5	4.49		02/23/18 21:39	74-83-9	
2-Butanone (MEK)	ND	ug/m3	13.5	4.49		02/23/18 21:39	78-93-3	
Carbon disulfide	ND	ug/m3	2.8	4.49		02/23/18 21:39	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.9	4.49		02/23/18 21:39	56-23-5	
Chlorobenzene	ND	ug/m3	4.2	4.49		02/23/18 21:39	108-90-7	
Chloroethane	ND	ug/m3	2.4	4.49		02/23/18 21:39	75-00-3	
Chloroform	ND	ug/m3	2.2	4.49		02/23/18 21:39	67-66-3	
Chloromethane	ND	ug/m3	1.9	4.49		02/23/18 21:39	74-87-3	
Cyclohexane	ND	ug/m3	3.1	4.49		02/23/18 21:39	110-82-7	
Dibromochloromethane	ND	ug/m3	7.8	4.49		02/23/18 21:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	7.0	4.49		02/23/18 21:39	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	5.5	4.49		02/23/18 21:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	5.5	4.49		02/23/18 21:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	5.5	4.49		02/23/18 21:39	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	4.5	4.49		02/23/18 21:39	75-71-8	
1,1-Dichloroethane	ND	ug/m3	3.7	4.49		02/23/18 21:39	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1.8	4.49		02/23/18 21:39	107-06-2	
1,1-Dichloroethene	ND	ug/m3	3.6	4.49		02/23/18 21:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	3.6	4.49		02/23/18 21:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	3.6	4.49		02/23/18 21:39	156-60-5	
1,2-Dichloropropane	ND	ug/m3	4.2	4.49		02/23/18 21:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	4.1	4.49		02/23/18 21:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	4.1	4.49		02/23/18 21:39	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	16.4	4.49		02/23/18 21:39	123-91-1	
Ethylbenzene	ND	ug/m3	4.0	4.49		02/23/18 21:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	9.7	4.49		02/23/18 21:39	87-68-3	
2-Hexanone	ND	ug/m3	18.7	4.49		02/23/18 21:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	11.2	4.49		02/23/18 21:39	98-82-8	
Methylene Chloride	ND	ug/m3	15.8	4.49		02/23/18 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	18.7	4.49		02/23/18 21:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	16.4	4.49		02/23/18 21:39	1634-04-4	
Naphthalene	**94.5**	ug/m3	11.9	4.49		02/23/18 21:39	91-20-3	
Styrene	**8.4**	ug/m3	3.9	4.49		02/23/18 21:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	3.1	4.49		02/23/18 21:39	79-34-5	
Tetrachloroethene	ND	ug/m3	3.8	5.48		02/24/18 12:43	127-18-4	
Toluene	**34.0**	ug/m3	3.4	4.49		02/23/18 21:39	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	16.9	4.49		02/23/18 21:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	5.0	4.49		02/23/18 21:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	2.5	4.49		02/23/18 21:39	79-00-5	
Trichloroethene	ND	ug/m3	2.5	4.49		02/23/18 21:39	79-01-6	
Trichlorofluoromethane	ND	ug/m3	5.1	4.49		02/23/18 21:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	7.0	4.49		02/23/18 21:39	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	4.5	4.49		02/23/18 21:39	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 5 INF Vapor **Lab ID: 10421103004** Collected: 02/14/18 13:00 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	4.5	4.49		02/23/18 21:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	4.5	4.49		02/23/18 21:39	108-67-8	
Vinyl chloride	ND	ug/m3	1.2	4.49		02/23/18 21:39	75-01-4	
Xylene (Total)	**45.5**	ug/m3	11.9	4.49		02/23/18 21:39	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 2 AST **Lab ID: 10421103005** Collected: 02/14/18 14:05 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	37.4	15.5		02/23/18 22:48	67-64-1	
Benzene	**909000**	ug/m3	2580	7936		02/24/18 14:59	71-43-2	A3,E
Bromodichloromethane	ND	ug/m3	21.1	15.5		02/23/18 22:48	75-27-4	
Bromoform	ND	ug/m3	32.6	15.5		02/23/18 22:48	75-25-2	
Bromomethane	ND	ug/m3	12.2	15.5		02/23/18 22:48	74-83-9	
2-Butanone (MEK)	ND	ug/m3	46.5	15.5		02/23/18 22:48	78-93-3	
Carbon disulfide	ND	ug/m3	9.8	15.5		02/23/18 22:48	75-15-0	
Carbon tetrachloride	ND	ug/m3	9.9	15.5		02/23/18 22:48	56-23-5	
Chlorobenzene	ND	ug/m3	14.5	15.5		02/23/18 22:48	108-90-7	
Chloroethane	ND	ug/m3	8.3	15.5		02/23/18 22:48	75-00-3	
Chloroform	ND	ug/m3	7.7	15.5		02/23/18 22:48	67-66-3	
Chloromethane	ND	ug/m3	6.5	15.5		02/23/18 22:48	74-87-3	
Cyclohexane	ND	ug/m3	10.8	15.5		02/23/18 22:48	110-82-7	
Dibromochloromethane	ND	ug/m3	26.8	15.5		02/23/18 22:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	24.2	15.5		02/23/18 22:48	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	18.9	15.5		02/23/18 22:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	18.9	15.5		02/23/18 22:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	18.9	15.5		02/23/18 22:48	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	15.7	15.5		02/23/18 22:48	75-71-8	
1,1-Dichloroethane	ND	ug/m3	12.8	15.5		02/23/18 22:48	75-34-3	
1,2-Dichloroethane	ND	ug/m3	6.4	15.5		02/23/18 22:48	107-06-2	
1,1-Dichloroethene	ND	ug/m3	12.5	15.5		02/23/18 22:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	12.5	15.5		02/23/18 22:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	12.5	15.5		02/23/18 22:48	156-60-5	
1,2-Dichloropropane	ND	ug/m3	14.6	15.5		02/23/18 22:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	14.3	15.5		02/23/18 22:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	14.3	15.5		02/23/18 22:48	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	56.7	15.5		02/23/18 22:48	123-91-1	
Ethylbenzene	**1060**	ug/m3	13.7	15.5		02/23/18 22:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	33.6	15.5		02/23/18 22:48	87-68-3	
2-Hexanone	ND	ug/m3	64.5	15.5		02/23/18 22:48	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	38.8	15.5		02/23/18 22:48	98-82-8	
Methylene Chloride	ND	ug/m3	54.7	15.5		02/23/18 22:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	64.5	15.5		02/23/18 22:48	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	56.7	15.5		02/23/18 22:48	1634-04-4	
Naphthalene	**1530**	ug/m3	41.2	15.5		02/23/18 22:48	91-20-3	
Styrene	**162**	ug/m3	13.4	15.5		02/23/18 22:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	10.8	15.5		02/23/18 22:48	79-34-5	
Tetrachloroethene	**43.5**	ug/m3	10.7	15.5		02/23/18 22:48	127-18-4	
Toluene	**128000**	ug/m3	6080	7936		02/24/18 14:59	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	58.4	15.5		02/23/18 22:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	17.2	15.5		02/23/18 22:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	8.6	15.5		02/23/18 22:48	79-00-5	
Trichloroethene	ND	ug/m3	8.5	15.5		02/23/18 22:48	79-01-6	
Trichlorofluoromethane	ND	ug/m3	17.7	15.5		02/23/18 22:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	24.2	15.5		02/23/18 22:48	76-13-1	
1,2,3-Trimethylbenzene	**35.2**	ug/m3	15.5	15.5		02/23/18 22:48	526-73-8	

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

ANALYTICAL RESULTS

Project: Sparrows IM
Pace Project No.: 10421103

Sample: Cell 2 AST **Lab ID: 10421103005** Collected: 02/14/18 14:05 Received: 02/19/18 09:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**226**	ug/m3	15.5	15.5		02/23/18 22:48	95-63-6	
1,3,5-Trimethylbenzene	**136**	ug/m3	15.5	15.5		02/23/18 22:48	108-67-8	
Vinyl chloride	ND	ug/m3	4.0	15.5		02/23/18 22:48	75-01-4	
Xylene (Total)	**130000**	ug/m3	21000	7936		02/24/18 14:59	1330-20-7	

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QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10421103

QC Batch: 524512 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10421103001, 10421103002, 10421103003, 10421103004, 10421103005

METHOD BLANK: 2846535 Matrix: Air
Associated Lab Samples: 10421103001, 10421103002, 10421103003, 10421103004, 10421103005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	02/23/18 11:15	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	02/23/18 11:15	
1,1,2-Trichloroethane	ug/m3	ND	0.56	02/23/18 11:15	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	02/23/18 11:15	
1,1-Dichloroethane	ug/m3	ND	0.82	02/23/18 11:15	
1,1-Dichloroethene	ug/m3	ND	0.81	02/23/18 11:15	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	02/23/18 11:15	
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	02/23/18 11:15	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	02/23/18 11:15	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	02/23/18 11:15	
1,2-Dichlorobenzene	ug/m3	ND	1.2	02/23/18 11:15	
1,2-Dichloroethane	ug/m3	ND	0.41	02/23/18 11:15	
1,2-Dichloropropane	ug/m3	ND	0.94	02/23/18 11:15	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	02/23/18 11:15	
1,3-Dichlorobenzene	ug/m3	ND	1.2	02/23/18 11:15	
1,4-Dichlorobenzene	ug/m3	ND	1.2	02/23/18 11:15	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	02/23/18 11:15	
2-Butanone (MEK)	ug/m3	ND	3.0	02/23/18 11:15	
2-Hexanone	ug/m3	ND	4.2	02/23/18 11:15	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	02/23/18 11:15	
Acetone	ug/m3	ND	2.4	02/23/18 11:15	
Benzene	ug/m3	ND	0.32	02/23/18 11:15	
Bromodichloromethane	ug/m3	ND	1.4	02/23/18 11:15	
Bromoform	ug/m3	ND	2.1	02/23/18 11:15	
Bromomethane	ug/m3	ND	0.79	02/23/18 11:15	
Carbon disulfide	ug/m3	ND	0.63	02/23/18 11:15	
Carbon tetrachloride	ug/m3	ND	0.64	02/23/18 11:15	
Chlorobenzene	ug/m3	ND	0.94	02/23/18 11:15	
Chloroethane	ug/m3	ND	0.54	02/23/18 11:15	
Chloroform	ug/m3	ND	0.50	02/23/18 11:15	
Chloromethane	ug/m3	ND	0.42	02/23/18 11:15	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	02/23/18 11:15	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	02/23/18 11:15	
Cyclohexane	ug/m3	ND	0.70	02/23/18 11:15	
Dibromochloromethane	ug/m3	ND	1.7	02/23/18 11:15	
Dichlorodifluoromethane	ug/m3	ND	1.0	02/23/18 11:15	
Ethylbenzene	ug/m3	ND	0.88	02/23/18 11:15	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	02/23/18 11:15	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	02/23/18 11:15	
Methyl-tert-butyl ether	ug/m3	ND	3.7	02/23/18 11:15	
Methylene Chloride	ug/m3	ND	3.5	02/23/18 11:15	

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10421103

METHOD BLANK: 2846535 Matrix: Air
Associated Lab Samples: 10421103001, 10421103002, 10421103003, 10421103004, 10421103005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	02/23/18 11:15	
Styrene	ug/m3	ND	0.87	02/23/18 11:15	
Tetrachloroethene	ug/m3	ND	0.69	02/23/18 11:15	
Toluene	ug/m3	ND	0.77	02/23/18 11:15	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	02/23/18 11:15	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	02/23/18 11:15	
Trichloroethene	ug/m3	ND	0.55	02/23/18 11:15	
Trichlorofluoromethane	ug/m3	ND	1.1	02/23/18 11:15	
Vinyl chloride	ug/m3	ND	0.26	02/23/18 11:15	
Xylene (Total)	ug/m3	ND	2.6	02/23/18 11:15	

LABORATORY CONTROL SAMPLE: 2846536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	61.3	110	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	72.9	105	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	60.6	109	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	83.5	107	63-139	
1,1-Dichloroethane	ug/m3	41.1	44.7	109	70-134	
1,1-Dichloroethene	ug/m3	40.3	45.0	112	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	54.8	110	69-150	
1,2,4-Trichlorobenzene	ug/m3	75.4	97.2	129	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	54.7	109	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	86.5	111	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	69.4	114	70-137	
1,2-Dichloroethane	ug/m3	41.1	46.3	112	70-136	
1,2-Dichloropropane	ug/m3	47	51.2	109	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	53.5	107	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	69.4	114	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	69.8	114	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	36.6	46.0	125	70-145	
2-Butanone (MEK)	ug/m3	30	30.4	101	65-143	
2-Hexanone	ug/m3	104	118	113	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	104	115	110	70-135	
Acetone	ug/m3	121	121	100	59-132	
Benzene	ug/m3	32.5	34.2	105	70-134	
Bromodichloromethane	ug/m3	68.1	78.1	115	70-142	
Bromoform	ug/m3	105	124	118	69-150	
Bromomethane	ug/m3	39.5	45.2	114	61-141	
Carbon disulfide	ug/m3	31.6	37.3	118	66-134	
Carbon tetrachloride	ug/m3	64	72.6	114	60-145	
Chlorobenzene	ug/m3	46.8	50.0	107	70-130	
Chloroethane	ug/m3	26.8	31.5	118	65-143	
Chloroform	ug/m3	49.6	53.8	108	70-132	

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10421103

LABORATORY CONTROL SAMPLE: 2846536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	24.3	116	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	42.9	107	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	52.8	114	70-136	
Cyclohexane	ug/m3	35	36.3	104	70-133	
Dibromochloromethane	ug/m3	86.6	100	116	68-149	
Dichlorodifluoromethane	ug/m3	50.3	55.3	110	69-130	
Ethylbenzene	ug/m3	44.1	47.4	107	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	137	127	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	53.9	108	70-133	
Methyl-tert-butyl ether	ug/m3	91.6	98.1	107	70-132	
Methylene Chloride	ug/m3	177	175	99	67-132	
Naphthalene	ug/m3	53.3	52.4	98	55-136	
Styrene	ug/m3	43.3	50.3	116	70-139	
Tetrachloroethene	ug/m3	68.9	64.4	93	70-133	
Toluene	ug/m3	38.3	40.1	105	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	43.8	109	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	52.0	113	70-135	
Trichloroethene	ug/m3	54.6	61.5	113	70-135	
Trichlorofluoromethane	ug/m3	57.1	61.9	108	59-140	
Vinyl chloride	ug/m3	26	30.9	119	70-141	
Xylene (Total)	ug/m3	132	140	106	70-138	

SAMPLE DUPLICATE: 2847399

Parameter	Units	10420271002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.70	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.60	ND		25	
1,1,2-Trichloroethane	ug/m3	<0.46	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.76	ND		25	
1,1-Dichloroethane	ug/m3	<0.44	ND		25	
1,1-Dichloroethene	ug/m3	<0.49	ND		25	
1,2,3-Trimethylbenzene	ug/m3	<0.45	ND		25	
1,2,4-Trichlorobenzene	ug/m3	<2.0	ND		25	
1,2,4-Trimethylbenzene	ug/m3	<0.35	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.69	ND		25	
1,2-Dichlorobenzene	ug/m3	<0.67	ND		25	
1,2-Dichloroethane	ug/m3	<0.41	ND		25	
1,2-Dichloropropane	ug/m3	<0.63	ND		25	
1,3,5-Trimethylbenzene	ug/m3	<0.85	ND		25	
1,3-Dichlorobenzene	ug/m3	<0.96	ND		25	
1,4-Dichlorobenzene	ug/m3	<0.45	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<0.73	ND		25	
2-Butanone (MEK)	ug/m3	11.2	11.2	0	25	
2-Hexanone	ug/m3	<1.3	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.73	ND		25	

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrows IM
Pace Project No.: 10421103

SAMPLE DUPLICATE: 2847399

Parameter	Units	10420271002 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	56.0	57.9	3	25	
Benzene	ug/m3	0.51J	.5J		25	
Bromodichloromethane	ug/m3	<0.73	ND		25	
Bromoform	ug/m3	<1.4	ND		25	
Bromomethane	ug/m3	<0.43	ND		25	
Carbon disulfide	ug/m3	4.4	4.3	2	25	
Carbon tetrachloride	ug/m3	<0.66	ND		25	
Chlorobenzene	ug/m3	<0.37	ND		25	
Chloroethane	ug/m3	<0.42	ND		25	
Chloroform	ug/m3	<0.48	ND		25	
Chloromethane	ug/m3	1.0	.83J		25	
cis-1,2-Dichloroethene	ug/m3	<0.70	ND		25	
cis-1,3-Dichloropropene	ug/m3	<0.50	ND		25	
Cyclohexane	ug/m3	<0.47	ND		25	
Dibromochloromethane	ug/m3	<0.91	ND		25	
Dichlorodifluoromethane	ug/m3	2.5	2.3	7	25	
Ethylbenzene	ug/m3	<0.35	ND		25	
Hexachloro-1,3-butadiene	ug/m3	<1.8	ND		25	
Isopropylbenzene (Cumene)	ug/m3	<0.68	ND		25	
Methyl-tert-butyl ether	ug/m3	<1.4	ND		25	
Methylene Chloride	ug/m3	<3.1	ND		25	
Naphthalene	ug/m3	<1.2	ND		25	
Styrene	ug/m3	<0.34	ND		25	
Tetrachloroethene	ug/m3	0.67J	ND		25	
Toluene	ug/m3	1.5J	1.5J		25	
trans-1,2-Dichloroethene	ug/m3	<0.61	ND		25	
trans-1,3-Dichloropropene	ug/m3	<0.87	ND		25	
Trichloroethene	ug/m3	<0.55	ND		25	
Trichlorofluoromethane	ug/m3	2.4	2.5	6	25	
Vinyl chloride	ug/m3	<0.26	ND		25	
Xylene (Total)	ug/m3	<0.76	ND		25	

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QUALIFIERS

Project: Sparrows IM
Pace Project No.: 10421103

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
C8	Result may be biased high due to carryover from previously analyzed sample.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sparrows IM
Pace Project No.: 10421103

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10421103001	**Cell 2 AS/SVE**	TO-15	524512		
10421103002	**Cell 3 AS/SVE**	TO-15	524512		
10421103003	**Cell 5 EFF Vapor**	TO-15	524512		
10421103004	**Cell 5 INF Vapor**	TO-15	524512		
10421103005	**Cell 2 AST**	TO-15	524512		

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevar

WO# : 10421103

10421103

31244

Page: 1 of 1

Section A
Required Client Information:

Company: EAC
Address: 1600 Sparrows Point Blvd Suite B2
Email To: jburke@enviroanalyticsgroup.com
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: James Calenda
Copy To: Josh Burke
Purchase Order No.:
Project Name: Sparrows Int
Project Number:

Section C
Invoice Information:

Attention: Laura Sargent
Company Name: Enviro Analytics Group
Address: 1650 Des Peres Rd; Suite 303 St Louis, MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 24460

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: MD

Reporting Units
ug/m³ ☒ mg/m³ ___
PPBV ☒ PPMV ___
Other ___

Report Level II.___ III.___ IV.___ Other ___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 2 AS/SVE	6LC		2-13-18	09	2-13-18	0900	30	0	0184						X					001
2	Cell 3 AS/SVE	6LC				2-13-18	0930	30	2	213						X					002
3	Cell 5 EFF Vapor	6LC				2-14-18	1230	30	0	122						X					003
4	Cell 5 INF Vapor	6LC				2-14-18	1300	30	24	735						X					004
5	Cell 2 AST	6LC				2-14-18	1405	30	2	410						X					005
6	UNUSED	6LC						30		630											
7	UNUSED	6LC						30		1183											
8	UNUSED	6LC						30		570											
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	2-15-18	0815	[signature]	2-19-18	900

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Dec2017 Page 1 of 1
	Document No.: F-MN-A-106-rev.14	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO#: 10421103

PM: NB3 Due Date: 02/26/18

CLIENT: EnviroAnalyt

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7476 3004 8468 / 8457

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ 151401163 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 2-19-18 MA

Type of ice Received ☐ Blue ☐ Wet ☑ None

				Comments:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11. Individually Certified Cans Y (N) (list which samples)
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: Stand alone gauges, FFFT

Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 2 AS/SVE			+0.5	+5					
Cell 3 "			0	"					
Cell 5 EFF			+1	"					
Cell 5 INF			-21	"					
Cell 2 AST			-4	"					
Unused can			-30	—					
"			-29	—					
"			-29	—					

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Date/Time: **Field Data Required?** ☐ Yes ☐ No

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 2/19/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103001 ProjSampleNum: 10421103001 Date Collected: 02/13/18 9:00
Client Sample ID: Cell 2 AS/SVE Matrix: Air Date Received: 02/19/18 9:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.13	1.3	02/23/18 20:29 MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.13	1.3	02/23/18 20:29 MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.27	1.3	02/23/18 20:29 MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	75-35-4	
1,2,3-Trimethylbenzene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	0.65	1.3	02/23/18 20:29 MJL	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.13	1.3	02/23/18 20:29 MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	1.3	1.3	02/23/18 20:29 MJL	123-91-1	
2-Butanone (MEK)	7.3	ppbv	1.3	1.3	02/23/18 20:29 MJL	78-93-3	
2-Hexanone	ND	ppbv	1.3	1.3	02/23/18 20:29 MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	1.3	1.3	02/23/18 20:29 MJL	108-10-1	
Acetone	15.7	ppbv	1.3	1.3	02/23/18 20:29 MJL	67-64-1	
Benzene	0.46	ppbv	0.13	1.3	02/23/18 20:29 MJL	71-43-2	
Bromodichloromethane	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	75-27-4	
Bromoform	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	75-25-2	
Bromomethane	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	74-83-9	
Carbon disulfide	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	0.13	1.3	02/23/18 20:29 MJL	56-23-5	
Chlorobenzene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	108-90-7	
Chloroethane	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	75-00-3	
Chloroform	0.22	ppbv	0.13	1.3	02/23/18 20:29 MJL	67-66-3	
Chloromethane	2.4	ppbv	0.26	1.3	02/23/18 20:29 MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	10061-01-5	
Cyclohexane	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	110-82-7	
Dibromochloromethane	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	124-48-1	
Dichlorodifluoromethane	0.48	ppbv	0.26	1.3	02/23/18 20:29 MJL	75-71-8	
Ethylbenzene	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	87-68-3	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103001 ProjSampleNum: 10421103001 Date Collected: 02/13/18 9:00
Client Sample ID: Cell 2 AS/SVE Matrix: Air Date Received: 02/19/18 9:00

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
Isopropylbenzene (Cumene)	ND	ppbv	0.64	1.3	02/23/18 20:29 MJL	98-82-8	
Methylene Chloride	ND	ppbv	1.3	1.3	02/23/18 20:29 MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	1.3	1.3	02/23/18 20:29 MJL	1634-04-4	
Naphthalene	ND	ppbv	0.66	1.3	02/23/18 20:29 MJL	91-20-3	
Styrene	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	100-42-5	
Tetrachloroethene	ND	ppbv	0.13	1.3	02/24/18 13:18 MJL	127-18-4	
Toluene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	108-88-3	
trans-1,2-Dichloroethene	ND	ppbv	0.25	1.3	02/23/18 20:29 MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	10061-02-6	
Trichloroethene	ND	ppbv	0.13	1.3	02/23/18 20:29 MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.26	1.3	02/23/18 20:29 MJL	75-69-4	
Vinyl chloride	ND	ppbv	0.13	1.3	02/23/18 20:29 MJL	75-01-4	
Xylene (Total)	ND	ppbv	0.77	1.3	02/23/18 20:29 MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103002 ProjSampleNum: 10421103002 Date Collected: 02/13/18 9:30
Client Sample ID: Cell 3 AS/SVE Matrix: Air Date Received: 02/19/18 9:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.13	1.34	02/23/18 21:04	MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.13	1.34	02/23/18 21:04	MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	75-35-4	
1,2,3-Trimethylbenzene	0.46	ppbv	0.26	1.34	02/23/18 21:04	MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	0.68	1.34	02/23/18 21:04	MJL	120-82-1	
1,2,4-Trimethylbenzene	1.2	ppbv	0.26	1.34	02/23/18 21:04	MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.26	1.34	02/23/18 21:04	MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.13	1.34	02/23/18 21:04	MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.28	1.34	02/23/18 21:04	MJL	78-87-5	
1,3,5-Trimethylbenzene	2.3	ppbv	0.26	1.34	02/23/18 21:04	MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	0.26	1.34	02/23/18 21:04	MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.26	1.34	02/23/18 21:04	MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	1.3	1.34	02/23/18 21:04	MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	1.3	1.34	02/23/18 21:04	MJL	78-93-3	
2-Hexanone	ND	ppbv	1.3	1.34	02/23/18 21:04	MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	1.3	1.34	02/23/18 21:04	MJL	108-10-1	
Acetone	5.5	ppbv	1.3	1.34	02/23/18 21:04	MJL	67-64-1	
Benzene	3730	ppbv	42.8	428.38	02/24/18 14:25	MJL	71-43-2	A3
Bromodichloromethane	ND	ppbv	0.26	1.34	02/23/18 21:04	MJL	75-27-4	
Bromoform	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	75-25-2	
Bromomethane	ND	ppbv	0.28	1.34	02/23/18 21:04	MJL	74-83-9	
Carbon disulfide	0.6	ppbv	0.27	1.34	02/23/18 21:04	MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	0.13	1.34	02/23/18 21:04	MJL	56-23-5	
Chlorobenzene	ND	ppbv	0.28	1.34	02/23/18 21:04	MJL	108-90-7	
Chloroethane	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	75-00-3	
Chloroform	ND	ppbv	0.13	1.34	02/23/18 21:04	MJL	67-66-3	
Chloromethane	0.44	ppbv	0.27	1.34	02/23/18 21:04	MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.26	1.34	02/23/18 21:04	MJL	10061-01-5	
Cyclohexane	0.74	ppbv	0.27	1.34	02/23/18 21:04	MJL	110-82-7	
Dibromochloromethane	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	124-48-1	
Dichlorodifluoromethane	0.56	ppbv	0.28	1.34	02/23/18 21:04	MJL	75-71-8	
Ethylbenzene	5.2	ppbv	0.27	1.34	02/23/18 21:04	MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	87-68-3	

SUPPLEMENTAL REPORT

Units Conversion Request

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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103002 ProjSampleNum: 10421103002 Date Collected: 02/13/18 9:30
Client Sample ID: Cell 3 AS/SVE Matrix: Air Date Received: 02/19/18 9:00

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
Isopropylbenzene (Cumene)	ND	ppbv	0.68	1.34	02/23/18 21:04	MJL	98-82-8	
Methylene Chloride	17.2	ppbv	1.3	1.34	02/23/18 21:04	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	1.3	1.34	02/23/18 21:04	MJL	1634-04-4	
Naphthalene	ND	ppbv	0.68	1.34	02/23/18 21:04	MJL	91-20-3	
Styrene	0.35	ppbv	0.28	1.34	02/23/18 21:04	MJL	100-42-5	
Tetrachloroethene	0.87	ppbv	0.13	1.34	02/23/18 21:04	MJL	127-18-4	C8
Toluene	290	ppbv	85.6	428.38	02/24/18 14:25	MJL	108-88-3	A3
trans-1,2-Dichloroethene	ND	ppbv	0.27	1.34	02/23/18 21:04	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.26	1.34	02/23/18 21:04	MJL	10061-02-6	
Trichloroethene	ND	ppbv	0.13	1.34	02/23/18 21:04	MJL	79-01-6	
Trichlorofluoromethane	0.3	ppbv	0.26	1.34	02/23/18 21:04	MJL	75-69-4	
Vinyl chloride	ND	ppbv	0.13	1.34	02/23/18 21:04	MJL	75-01-4	
Xylene (Total)	70.7	ppbv	0.82	1.34	02/23/18 21:04	MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103003 ProjSampleNum: 10421103003 Date Collected: 02/14/18 12:30
Client Sample ID: Cell 5 EFF Vapor Matrix: Air Date Received: 02/19/18 9:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	1.3	12.6	02/23/18 22:13 MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	1.3	12.6	02/23/18 22:13 MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	75-35-4	
1,2,3-Trimethylbenzene	30.4	ppbv	2.5	12.6	02/23/18 22:13 MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	6.3	12.6	02/23/18 22:13 MJL	120-82-1	
1,2,4-Trimethylbenzene	121	ppbv	2.5	12.6	02/23/18 22:13 MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	1.3	12.6	02/23/18 22:13 MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	78-87-5	
1,3,5-Trimethylbenzene	63.8	ppbv	2.5	12.6	02/23/18 22:13 MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	12.6	12.6	02/23/18 22:13 MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	12.6	12.6	02/23/18 22:13 MJL	78-93-3	
2-Hexanone	ND	ppbv	12.6	12.6	02/23/18 22:13 MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	12.6	12.6	02/23/18 22:13 MJL	108-10-1	
Acetone	ND	ppbv	12.6	12.6	02/23/18 22:13 MJL	67-64-1	
Benzene	1550	ppbv	7.6	75.6	02/24/18 13:51 MJL	71-43-2	A3
Bromodichloromethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	75-27-4	
Bromoform	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	75-25-2	
Bromomethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	74-83-9	
Carbon disulfide	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	1.3	12.6	02/23/18 22:13 MJL	56-23-5	
Chlorobenzene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	108-90-7	
Chloroethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	75-00-3	
Chloroform	ND	ppbv	1.2	12.6	02/23/18 22:13 MJL	67-66-3	
Chloromethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	10061-01-5	
Cyclohexane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	110-82-7	
Dibromochloromethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	124-48-1	
Dichlorodifluoromethane	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	75-71-8	
Ethylbenzene	47.3	ppbv	2.5	12.6	02/23/18 22:13 MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	2.5	12.6	02/23/18 22:13 MJL	87-68-3	

SUPPLEMENTAL REPORT

Units Conversion Request

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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103003 ProjSampleNum: 10421103003 Date Collected: 02/14/18 12:30
Client Sample ID: Cell 5 EFF Vapor Matrix: Air Date Received: 02/19/18 9:00

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
Isopropylbenzene (Cumene)	ND	ppbv	6.3	12.6	02/23/18 22:13	MJL	98-82-8	
Methylene Chloride	ND	ppbv	12.6	12.6	02/23/18 22:13	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	12.6	12.6	02/23/18 22:13	MJL	1634-04-4	
Naphthalene	1230	ppbv	37.7	75.6	02/24/18 13:51	MJL	91-20-3	A3
Styrene	223	ppbv	2.5	12.6	02/23/18 22:13	MJL	100-42-5	
Tetrachloroethene	6.4	ppbv	1.3	12.6	02/23/18 22:13	MJL	127-18-4	
Toluene	945	ppbv	15.1	75.6	02/24/18 13:51	MJL	108-88-3	A3
trans-1,2-Dichloroethene	ND	ppbv	2.5	12.6	02/23/18 22:13	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	2.5	12.6	02/23/18 22:13	MJL	10061-02-6	
Trichloroethene	ND	ppbv	1.3	12.6	02/23/18 22:13	MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	2.5	12.6	02/23/18 22:13	MJL	75-69-4	
Vinyl chloride	ND	ppbv	1.3	12.6	02/23/18 22:13	MJL	75-01-4	
Xylene (Total)	915	ppbv	7.6	12.6	02/23/18 22:13	MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103004 ProjSampleNum: 10421103004 Date Collected: 02/14/18 13:00
Client Sample ID: Cell 5 INF Vapor Matrix: Air Date Received: 02/19/18 9:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.44	4.49	02/23/18 21:39 MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.45	4.49	02/23/18 21:39 MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	75-35-4	
1,2,3-Trimethylbenzene	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	2.2	4.49	02/23/18 21:39 MJL	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.44	4.49	02/23/18 21:39 MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	4.5	4.49	02/23/18 21:39 MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	4.5	4.49	02/23/18 21:39 MJL	78-93-3	
2-Hexanone	ND	ppbv	4.5	4.49	02/23/18 21:39 MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	4.5	4.49	02/23/18 21:39 MJL	108-10-1	
Acetone	ND	ppbv	4.5	4.49	02/23/18 21:39 MJL	67-64-1	
Benzene	14.9	ppbv	0.46	4.49	02/23/18 21:39 MJL	71-43-2	
Bromodichloromethane	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	75-27-4	
Bromoform	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	75-25-2	
Bromomethane	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	74-83-9	
Carbon disulfide	ND	ppbv	0.88	4.49	02/23/18 21:39 MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	0.45	4.49	02/23/18 21:39 MJL	56-23-5	
Chlorobenzene	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	108-90-7	
Chloroethane	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	75-00-3	
Chloroform	ND	ppbv	0.44	4.49	02/23/18 21:39 MJL	67-66-3	
Chloromethane	ND	ppbv	0.91	4.49	02/23/18 21:39 MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	10061-01-5	
Cyclohexane	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	110-82-7	
Dibromochloromethane	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.9	4.49	02/23/18 21:39 MJL	75-71-8	
Ethylbenzene	ND	ppbv	0.91	4.49	02/23/18 21:39 MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.89	4.49	02/23/18 21:39 MJL	87-68-3	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103004 ProjSampleNum: 10421103004 Date Collected: 02/14/18 13:00
Client Sample ID: Cell 5 INF Vapor Matrix: Air Date Received: 02/19/18 9:00

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
Isopropylbenzene (Cumene)	ND	ppbv	2.2	4.49	02/23/18 21:39	MJL	98-82-8	
Methylene Chloride	ND	ppbv	4.5	4.49	02/23/18 21:39	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	4.5	4.49	02/23/18 21:39	MJL	1634-04-4	
Naphthalene	17.7	ppbv	2.2	4.49	02/23/18 21:39	MJL	91-20-3	
Styrene	1.9	ppbv	0.9	4.49	02/23/18 21:39	MJL	100-42-5	
Tetrachloroethene	ND	ppbv	0.55	5.48	02/24/18 12:43	MJL	127-18-4	
Toluene	8.9	ppbv	0.89	4.49	02/23/18 21:39	MJL	108-88-3	
trans-1,2-Dichloroethene	ND	ppbv	0.89	4.49	02/23/18 21:39	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.89	4.49	02/23/18 21:39	MJL	10061-02-6	
Trichloroethene	ND	ppbv	0.46	4.49	02/23/18 21:39	MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.89	4.49	02/23/18 21:39	MJL	75-69-4	
Vinyl chloride	ND	ppbv	0.46	4.49	02/23/18 21:39	MJL	75-01-4	
Xylene (Total)	10.3	ppbv	2.7	4.49	02/23/18 21:39	MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103005 ProjSampleNum: 10421103005 Date Collected: 02/14/18 14:05
Client Sample ID: Cell 2 AST Matrix: Air Date Received: 02/19/18 9:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	1.5	15.5	02/23/18 22:48 MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	1.6	15.5	02/23/18 22:48 MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	75-35-4	
1,2,3-Trimethylbenzene	7	ppbv	3.1	15.5	02/23/18 22:48 MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	7.7	15.5	02/23/18 22:48 MJL	120-82-1	
1,2,4-Trimethylbenzene	45.2	ppbv	3.1	15.5	02/23/18 22:48 MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	1.6	15.5	02/23/18 22:48 MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	78-87-5	
1,3,5-Trimethylbenzene	27.2	ppbv	3.1	15.5	02/23/18 22:48 MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	15.5	15.5	02/23/18 22:48 MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	15.5	15.5	02/23/18 22:48 MJL	78-93-3	
2-Hexanone	ND	ppbv	15.5	15.5	02/23/18 22:48 MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	15.5	15.5	02/23/18 22:48 MJL	108-10-1	
Acetone	ND	ppbv	15.5	15.5	02/23/18 22:48 MJL	67-64-1	
Benzene	280000	ppbv	794	7936	02/24/18 14:59 MJL	71-43-2	A3, E
Bromodichloromethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	75-27-4	
Bromoform	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	75-25-2	
Bromomethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	74-83-9	
Carbon disulfide	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	1.5	15.5	02/23/18 22:48 MJL	56-23-5	
Chlorobenzene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	108-90-7	
Chloroethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	75-00-3	
Chloroform	ND	ppbv	1.6	15.5	02/23/18 22:48 MJL	67-66-3	
Chloromethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	10061-01-5	
Cyclohexane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	110-82-7	
Dibromochloromethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	124-48-1	
Dichlorodifluoromethane	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	75-71-8	
Ethylbenzene	240	ppbv	3.1	15.5	02/23/18 22:48 MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	3.1	15.5	02/23/18 22:48 MJL	87-68-3	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

Lab Sample No: 10421103005 ProjSampleNum: 10421103005 Date Collected: 02/14/18 14:05
Client Sample ID: Cell 2 AST Matrix: Air Date Received: 02/19/18 9:00

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
Isopropylbenzene (Cumene)	ND	ppbv	7.8	15.5	02/23/18 22:48	MJL	98-82-8	
Methylene Chloride	ND	ppbv	15.5	15.5	02/23/18 22:48	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	15.5	15.5	02/23/18 22:48	MJL	1634-04-4	
Naphthalene	287	ppbv	7.7	15.5	02/23/18 22:48	MJL	91-20-3	
Styrene	37.4	ppbv	3.1	15.5	02/23/18 22:48	MJL	100-42-5	
Tetrachloroethene	6.3	ppbv	1.6	15.5	02/23/18 22:48	MJL	127-18-4	
Toluene	33400	ppbv	1590	7936	02/24/18 14:59	MJL	108-88-3	A3
trans-1,2-Dichloroethene	ND	ppbv	3.1	15.5	02/23/18 22:48	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	3.1	15.5	02/23/18 22:48	MJL	10061-02-6	
Trichloroethene	ND	ppbv	1.6	15.5	02/23/18 22:48	MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	3.1	15.5	02/23/18 22:48	MJL	75-69-4	
Vinyl chloride	ND	ppbv	1.5	15.5	02/23/18 22:48	MJL	75-01-4	
Xylene (Total)	29500	ppbv	4760	7936	02/24/18 14:59	MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10421103
Project Name: Sparrows IM

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[E] Analyte concentration exceeded the calibration range. The reported result is estimated.

[A3] The sample was analyzed by serial dilution.

[C8] Result may be biased high due to carryover from previously analyzed sample.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 26, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: Sparrows Point IM
Pace Project No.: 10423693

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Sparrows Point IM
Pace Project No.: 10423693

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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(612)607-1700

SAMPLE SUMMARY

Project: Sparrows Point IM
Pace Project No.: 10423693

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10423693001	**Cell 2 AST**	Air	03/12/18 09:10	03/15/18 10:15
10423693002	**Cell 3**	Air	03/12/18 09:30	03/15/18 10:15
10423693003	**Cell 5 AST**	Air	03/12/18 10:10	03/15/18 10:15
10423693004	**Cell 5 INF Vapor**	Air	03/12/18 10:15	03/15/18 10:15
10423693005	**Unused Can #2744**	Air		03/15/18 10:15
10423693006	**Unused Can #2097**	Air		03/15/18 10:15
10423693007	**Unused Can #2703**	Air		03/15/18 10:15
10423693008	**Unused Can #1285**	Air		03/15/18 10:15

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SAMPLE ANALYTE COUNT

Project: Sparrows Point IM
Pace Project No.: 10423693

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10423693001	**Cell 2 AST**	TO-15	CH1, MJL	51
10423693002	**Cell 3**	TO-15	CH1, MJL	51
10423693003	**Cell 5 AST**	TO-15	CH1, MJL	51
10423693004	**Cell 5 INF Vapor**	TO-15	MJL	51

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: Sparrows Point IM
Pace Project No.: 10423693

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: March 26, 2018

General Information:
4 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: 528882

IQ: The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

- DUP (Lab ID: 2870758)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 528882

A3: The sample was analyzed by serial dilution.

- Cell 2 AST (Lab ID: 10423693001)
  - Benzene
  - Toluene
- Cell 3 (Lab ID: 10423693002)
  - Benzene
- Cell 5 AST (Lab ID: 10423693003)
  - Benzene
  - Naphthalene

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PROJECT NARRATIVE

Project: Sparrows Point IM
Pace Project No.: 10423693

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: March 26, 2018

Analyte Comments:

QC Batch: 528882

C8: Result may be biased high due to carryover from previously analyzed sample.
- Cell 3 (Lab ID: 10423693002)
  - Naphthalene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- Cell 2 AST (Lab ID: 10423693001)
  - Benzene

N2: The lab does not hold NELAC/TNI accreditation for this parameter.
- BLANK (Lab ID: 2870631)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 2870758)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 2870632)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 2 AST **Lab ID: 10423693001** Collected: 03/12/18 09:10 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	94.0	39		03/25/18 00:44	67-64-1	
Benzene	**5260000**	ug/m3	3240	9984		03/25/18 13:30	71-43-2	A3,E
Bromodichloromethane	ND	ug/m3	53.0	39		03/25/18 00:44	75-27-4	
Bromoform	ND	ug/m3	81.9	39		03/25/18 00:44	75-25-2	
Bromomethane	ND	ug/m3	30.8	39		03/25/18 00:44	74-83-9	
2-Butanone (MEK)	ND	ug/m3	117	39		03/25/18 00:44	78-93-3	
Carbon disulfide	ND	ug/m3	24.7	39		03/25/18 00:44	75-15-0	
Carbon tetrachloride	ND	ug/m3	24.9	39		03/25/18 00:44	56-23-5	
Chlorobenzene	ND	ug/m3	36.5	39		03/25/18 00:44	108-90-7	
Chloroethane	ND	ug/m3	20.9	39		03/25/18 00:44	75-00-3	
Chloroform	ND	ug/m3	19.3	39		03/25/18 00:44	67-66-3	
Chloromethane	ND	ug/m3	16.4	39		03/25/18 00:44	74-87-3	
Cyclohexane	ND	ug/m3	27.3	39		03/25/18 00:44	110-82-7	
Dibromochloromethane	ND	ug/m3	67.5	39		03/25/18 00:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	60.8	39		03/25/18 00:44	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	47.6	39		03/25/18 00:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	47.6	39		03/25/18 00:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	47.6	39		03/25/18 00:44	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	39.4	39		03/25/18 00:44	75-71-8	
1,1-Dichloroethane	ND	ug/m3	32.1	39		03/25/18 00:44	75-34-3	
1,2-Dichloroethane	ND	ug/m3	16.0	39		03/25/18 00:44	107-06-2	
1,1-Dichloroethene	ND	ug/m3	31.4	39		03/25/18 00:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	31.4	39		03/25/18 00:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	31.4	39		03/25/18 00:44	156-60-5	
1,2-Dichloropropane	ND	ug/m3	36.6	39		03/25/18 00:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	36.0	39		03/25/18 00:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	36.0	39		03/25/18 00:44	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	143	39		03/25/18 00:44	123-91-1	
Ethylbenzene	**3600**	ug/m3	34.4	39		03/25/18 00:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	84.6	39		03/25/18 00:44	87-68-3	
2-Hexanone	ND	ug/m3	162	39		03/25/18 00:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	97.5	39		03/25/18 00:44	98-82-8	
Methylene Chloride	ND	ug/m3	344	39		03/25/18 00:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	162	39		03/25/18 00:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	143	39		03/25/18 00:44	1634-04-4	
Naphthalene	**637**	ug/m3	104	39		03/25/18 00:44	91-20-3	
Styrene	**545**	ug/m3	33.8	39		03/25/18 00:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	27.2	39		03/25/18 00:44	79-34-5	
Tetrachloroethene	ND	ug/m3	53.8	39		03/25/18 00:44	127-18-4	
Toluene	**733000**	ug/m3	7650	9984		03/25/18 13:30	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	147	39		03/25/18 00:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	43.3	39		03/25/18 00:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.6	39		03/25/18 00:44	79-00-5	
Trichloroethene	ND	ug/m3	21.3	39		03/25/18 00:44	79-01-6	
Trichlorofluoromethane	ND	ug/m3	44.5	39		03/25/18 00:44	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	60.8	39		03/25/18 00:44	76-13-1	
1,2,3-Trimethylbenzene	**151**	ug/m3	39.0	39		03/25/18 00:44	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 2 AST **Lab ID: 10423693001** Collected: 03/12/18 09:10 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**981**	ug/m3	39.0	39		03/25/18 00:44	95-63-6	
1,3,5-Trimethylbenzene	**598**	ug/m3	39.0	39		03/25/18 00:44	108-67-8	
Vinyl chloride	ND	ug/m3	10.1	39		03/25/18 00:44	75-01-4	
Xylene (Total)	**189000**	ug/m3	26500	9984		03/25/18 13:30	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 3 **Lab ID: 10423693002** Collected: 03/12/18 09:30 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	94.0	39		03/25/18 00:10	67-64-1	
Benzene	**22100**	ug/m3	203	624		03/25/18 12:59	71-43-2	A3
Bromodichloromethane	ND	ug/m3	53.0	39		03/25/18 00:10	75-27-4	
Bromoform	ND	ug/m3	81.9	39		03/25/18 00:10	75-25-2	
Bromomethane	ND	ug/m3	30.8	39		03/25/18 00:10	74-83-9	
2-Butanone (MEK)	ND	ug/m3	117	39		03/25/18 00:10	78-93-3	
Carbon disulfide	ND	ug/m3	24.7	39		03/25/18 00:10	75-15-0	
Carbon tetrachloride	ND	ug/m3	24.9	39		03/25/18 00:10	56-23-5	
Chlorobenzene	ND	ug/m3	36.5	39		03/25/18 00:10	108-90-7	
Chloroethane	ND	ug/m3	20.9	39		03/25/18 00:10	75-00-3	
Chloroform	ND	ug/m3	19.3	39		03/25/18 00:10	67-66-3	
Chloromethane	ND	ug/m3	16.4	39		03/25/18 00:10	74-87-3	
Cyclohexane	ND	ug/m3	27.3	39		03/25/18 00:10	110-82-7	
Dibromochloromethane	ND	ug/m3	67.5	39		03/25/18 00:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	60.8	39		03/25/18 00:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	47.6	39		03/25/18 00:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	47.6	39		03/25/18 00:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	47.6	39		03/25/18 00:10	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	39.4	39		03/25/18 00:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	32.1	39		03/25/18 00:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	16.0	39		03/25/18 00:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	31.4	39		03/25/18 00:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	31.4	39		03/25/18 00:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	31.4	39		03/25/18 00:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	36.6	39		03/25/18 00:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	36.0	39		03/25/18 00:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	36.0	39		03/25/18 00:10	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	143	39		03/25/18 00:10	123-91-1	
Ethylbenzene	ND	ug/m3	34.4	39		03/25/18 00:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	84.6	39		03/25/18 00:10	87-68-3	
2-Hexanone	ND	ug/m3	162	39		03/25/18 00:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	97.5	39		03/25/18 00:10	98-82-8	
Methylene Chloride	ND	ug/m3	344	39		03/25/18 00:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	162	39		03/25/18 00:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	143	39		03/25/18 00:10	1634-04-4	
Naphthalene	**234**	ug/m3	104	39		03/25/18 00:10	91-20-3	C8
Styrene	ND	ug/m3	33.8	39		03/25/18 00:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	27.2	39		03/25/18 00:10	79-34-5	
Tetrachloroethene	ND	ug/m3	53.8	39		03/25/18 00:10	127-18-4	
Toluene	**1140**	ug/m3	29.9	39		03/25/18 00:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	147	39		03/25/18 00:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	43.3	39		03/25/18 00:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.6	39		03/25/18 00:10	79-00-5	
Trichloroethene	ND	ug/m3	21.3	39		03/25/18 00:10	79-01-6	
Trichlorofluoromethane	ND	ug/m3	44.5	39		03/25/18 00:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	60.8	39		03/25/18 00:10	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	39.0	39		03/25/18 00:10	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 3 **Lab ID: 10423693002** Collected: 03/12/18 09:30 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	39.0	39		03/25/18 00:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	39.0	39		03/25/18 00:10	108-67-8	
Vinyl chloride	ND	ug/m3	10.1	39		03/25/18 00:10	75-01-4	
Xylene (Total)	**352**	ug/m3	103	39		03/25/18 00:10	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 5 AST **Lab ID: 10423693003** Collected: 03/12/18 10:10 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	91.1	37.8		03/24/18 23:36	67-64-1	
Benzene	**10100**	ug/m3	49.1	151.2		03/25/18 12:27	71-43-2	A3
Bromodichloromethane	ND	ug/m3	51.4	37.8		03/24/18 23:36	75-27-4	
Bromoform	ND	ug/m3	79.4	37.8		03/24/18 23:36	75-25-2	
Bromomethane	ND	ug/m3	29.8	37.8		03/24/18 23:36	74-83-9	
2-Butanone (MEK)	ND	ug/m3	113	37.8		03/24/18 23:36	78-93-3	
Carbon disulfide	ND	ug/m3	23.9	37.8		03/24/18 23:36	75-15-0	
Carbon tetrachloride	ND	ug/m3	24.2	37.8		03/24/18 23:36	56-23-5	
Chlorobenzene	ND	ug/m3	35.4	37.8		03/24/18 23:36	108-90-7	
Chloroethane	ND	ug/m3	20.3	37.8		03/24/18 23:36	75-00-3	
Chloroform	ND	ug/m3	18.7	37.8		03/24/18 23:36	67-66-3	
Chloromethane	ND	ug/m3	15.9	37.8		03/24/18 23:36	74-87-3	
Cyclohexane	ND	ug/m3	26.5	37.8		03/24/18 23:36	110-82-7	
Dibromochloromethane	ND	ug/m3	65.4	37.8		03/24/18 23:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	59.0	37.8		03/24/18 23:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	46.1	37.8		03/24/18 23:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	46.1	37.8		03/24/18 23:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	46.1	37.8		03/24/18 23:36	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	38.2	37.8		03/24/18 23:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	31.1	37.8		03/24/18 23:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	15.5	37.8		03/24/18 23:36	107-06-2	
1,1-Dichloroethene	ND	ug/m3	30.5	37.8		03/24/18 23:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		03/24/18 23:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		03/24/18 23:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	35.5	37.8		03/24/18 23:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		03/24/18 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		03/24/18 23:36	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	138	37.8		03/24/18 23:36	123-91-1	
Ethylbenzene	**259**	ug/m3	33.4	37.8		03/24/18 23:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	82.0	37.8		03/24/18 23:36	87-68-3	
2-Hexanone	ND	ug/m3	157	37.8		03/24/18 23:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	94.5	37.8		03/24/18 23:36	98-82-8	
Methylene Chloride	ND	ug/m3	334	37.8		03/24/18 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	157	37.8		03/24/18 23:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	138	37.8		03/24/18 23:36	1634-04-4	
Naphthalene	**17100**	ug/m3	402	151.2		03/25/18 12:27	91-20-3	A3
Styrene	**1250**	ug/m3	32.7	37.8		03/24/18 23:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	26.4	37.8		03/24/18 23:36	79-34-5	
Tetrachloroethene	ND	ug/m3	52.1	37.8		03/24/18 23:36	127-18-4	
Toluene	**2920**	ug/m3	29.0	37.8		03/24/18 23:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	143	37.8		03/24/18 23:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	42.0	37.8		03/24/18 23:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.0	37.8		03/24/18 23:36	79-00-5	
Trichloroethene	ND	ug/m3	20.6	37.8		03/24/18 23:36	79-01-6	
Trichlorofluoromethane	ND	ug/m3	43.1	37.8		03/24/18 23:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	59.0	37.8		03/24/18 23:36	76-13-1	
1,2,3-Trimethylbenzene	**227**	ug/m3	37.8	37.8		03/24/18 23:36	526-73-8	

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 5 AST **Lab ID: 10423693003** Collected: 03/12/18 10:10 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**851**	ug/m3	37.8	37.8		03/24/18 23:36	95-63-6	
1,3,5-Trimethylbenzene	**411**	ug/m3	37.8	37.8		03/24/18 23:36	108-67-8	
Vinyl chloride	ND	ug/m3	9.8	37.8		03/24/18 23:36	75-01-4	
Xylene (Total)	**5190**	ug/m3	100	37.8		03/24/18 23:36	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 5 INF Vapor **Lab ID: 10423693004** Collected: 03/12/18 10:15 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	366	151.8		03/24/18 23:03	67-64-1	
Benzene	**6910**	ug/m3	98.5	151.8		03/24/18 23:03	71-43-2	
Bromodichloromethane	ND	ug/m3	206	151.8		03/24/18 23:03	75-27-4	
Bromoform	ND	ug/m3	319	151.8		03/24/18 23:03	75-25-2	
Bromomethane	ND	ug/m3	120	151.8		03/24/18 23:03	74-83-9	
2-Butanone (MEK)	ND	ug/m3	455	151.8		03/24/18 23:03	78-93-3	
Carbon disulfide	ND	ug/m3	96.1	151.8		03/24/18 23:03	75-15-0	
Carbon tetrachloride	ND	ug/m3	97.0	151.8		03/24/18 23:03	56-23-5	
Chlorobenzene	ND	ug/m3	142	151.8		03/24/18 23:03	108-90-7	
Chloroethane	ND	ug/m3	81.4	151.8		03/24/18 23:03	75-00-3	
Chloroform	ND	ug/m3	75.3	151.8		03/24/18 23:03	67-66-3	
Chloromethane	ND	ug/m3	63.8	151.8		03/24/18 23:03	74-87-3	
Cyclohexane	ND	ug/m3	106	151.8		03/24/18 23:03	110-82-7	
Dibromochloromethane	ND	ug/m3	263	151.8		03/24/18 23:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	237	151.8		03/24/18 23:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	185	151.8		03/24/18 23:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	185	151.8		03/24/18 23:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	185	151.8		03/24/18 23:03	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	153	151.8		03/24/18 23:03	75-71-8	
1,1-Dichloroethane	ND	ug/m3	125	151.8		03/24/18 23:03	75-34-3	
1,2-Dichloroethane	ND	ug/m3	62.4	151.8		03/24/18 23:03	107-06-2	
1,1-Dichloroethene	ND	ug/m3	122	151.8		03/24/18 23:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	122	151.8		03/24/18 23:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	122	151.8		03/24/18 23:03	156-60-5	
1,2-Dichloropropane	ND	ug/m3	143	151.8		03/24/18 23:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	140	151.8		03/24/18 23:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	140	151.8		03/24/18 23:03	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	556	151.8		03/24/18 23:03	123-91-1	
Ethylbenzene	ND	ug/m3	134	151.8		03/24/18 23:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	329	151.8		03/24/18 23:03	87-68-3	
2-Hexanone	ND	ug/m3	631	151.8		03/24/18 23:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	380	151.8		03/24/18 23:03	98-82-8	
Methylene Chloride	ND	ug/m3	1340	151.8		03/24/18 23:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	631	151.8		03/24/18 23:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	556	151.8		03/24/18 23:03	1634-04-4	
Naphthalene	ND	ug/m3	404	151.8		03/24/18 23:03	91-20-3	
Styrene	ND	ug/m3	131	151.8		03/24/18 23:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	106	151.8		03/24/18 23:03	79-34-5	
Tetrachloroethene	ND	ug/m3	209	151.8		03/24/18 23:03	127-18-4	
Toluene	**461**	ug/m3	116	151.8		03/24/18 23:03	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	572	151.8		03/24/18 23:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	168	151.8		03/24/18 23:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	84.2	151.8		03/24/18 23:03	79-00-5	
Trichloroethene	ND	ug/m3	82.9	151.8		03/24/18 23:03	79-01-6	
Trichlorofluoromethane	ND	ug/m3	173	151.8		03/24/18 23:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	237	151.8		03/24/18 23:03	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	152	151.8		03/24/18 23:03	526-73-8	

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(612)607-1700

ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10423693

Sample: Cell 5 INF Vapor **Lab ID: 10423693004** Collected: 03/12/18 10:15 Received: 03/15/18 10:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**208**	ug/m3	152	151.8		03/24/18 23:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	152	151.8		03/24/18 23:03	108-67-8	
Vinyl chloride	ND	ug/m3	39.5	151.8		03/24/18 23:03	75-01-4	
Xylene (Total)	ND	ug/m3	402	151.8		03/24/18 23:03	1330-20-7	

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QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10423693

QC Batch: 528882 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10423693001, 10423693002, 10423693003, 10423693004

METHOD BLANK: 2870631 Matrix: Air
Associated Lab Samples: 10423693001, 10423693002, 10423693003, 10423693004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	03/24/18 10:51	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	03/24/18 10:51	
1,1,2-Trichloroethane	ug/m3	ND	0.56	03/24/18 10:51	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	03/24/18 10:51	
1,1-Dichloroethane	ug/m3	ND	0.82	03/24/18 10:51	
1,1-Dichloroethene	ug/m3	ND	0.81	03/24/18 10:51	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	03/24/18 10:51	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	03/24/18 10:51	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	03/24/18 10:51	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	03/24/18 10:51	
1,2-Dichlorobenzene	ug/m3	ND	1.2	03/24/18 10:51	
1,2-Dichloroethane	ug/m3	ND	0.41	03/24/18 10:51	
1,2-Dichloropropane	ug/m3	ND	0.94	03/24/18 10:51	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	03/24/18 10:51	
1,3-Dichlorobenzene	ug/m3	ND	1.2	03/24/18 10:51	
1,4-Dichlorobenzene	ug/m3	ND	1.2	03/24/18 10:51	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	03/24/18 10:51	
2-Butanone (MEK)	ug/m3	ND	3.0	03/24/18 10:51	
2-Hexanone	ug/m3	ND	4.2	03/24/18 10:51	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	03/24/18 10:51	
Acetone	ug/m3	ND	2.4	03/24/18 10:51	
Benzene	ug/m3	ND	0.32	03/24/18 10:51	MN
Bromodichloromethane	ug/m3	ND	1.4	03/24/18 10:51	
Bromoform	ug/m3	ND	2.1	03/24/18 10:51	
Bromomethane	ug/m3	ND	0.79	03/24/18 10:51	
Carbon disulfide	ug/m3	ND	0.63	03/24/18 10:51	
Carbon tetrachloride	ug/m3	ND	0.64	03/24/18 10:51	
Chlorobenzene	ug/m3	ND	0.94	03/24/18 10:51	
Chloroethane	ug/m3	ND	0.54	03/24/18 10:51	
Chloroform	ug/m3	ND	0.50	03/24/18 10:51	
Chloromethane	ug/m3	ND	0.42	03/24/18 10:51	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	03/24/18 10:51	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	03/24/18 10:51	
Cyclohexane	ug/m3	ND	0.70	03/24/18 10:51	
Dibromochloromethane	ug/m3	ND	1.7	03/24/18 10:51	
Dichlorodifluoromethane	ug/m3	ND	1.0	03/24/18 10:51	
Ethylbenzene	ug/m3	ND	0.88	03/24/18 10:51	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	03/24/18 10:51	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	03/24/18 10:51	
Methyl-tert-butyl ether	ug/m3	ND	3.7	03/24/18 10:51	
Methylene Chloride	ug/m3	ND	8.8	03/24/18 10:51	MN

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10423693

METHOD BLANK: 2870631 Matrix: Air
Associated Lab Samples: 10423693001, 10423693002, 10423693003, 10423693004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	03/24/18 10:51	
Styrene	ug/m3	ND	0.87	03/24/18 10:51	
Tetrachloroethene	ug/m3	ND	1.4	03/24/18 10:51	MN
Toluene	ug/m3	ND	0.77	03/24/18 10:51	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	03/24/18 10:51	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	03/24/18 10:51	
Trichloroethene	ug/m3	ND	0.55	03/24/18 10:51	
Trichlorofluoromethane	ug/m3	ND	1.1	03/24/18 10:51	
Vinyl chloride	ug/m3	ND	0.26	03/24/18 10:51	
Xylene (Total)	ug/m3	ND	2.6	03/24/18 10:51	

LABORATORY CONTROL SAMPLE: 2870632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.7	99	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	70.3	101	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	53.2	96	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	71.8	92	63-139	
1,1-Dichloroethane	ug/m3	41.1	40.8	99	70-134	
1,1-Dichloroethene	ug/m3	40.3	44.3	110	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	47.2	95	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	78.4	104	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	47.8	96	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	77.0	99	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	57.7	94	70-137	
1,2-Dichloroethane	ug/m3	41.1	41.3	100	70-136	
1,2-Dichloropropane	ug/m3	47	44.9	96	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	47.0	94	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	58.0	95	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	59.0	97	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	83.5	91	70-145	
2-Butanone (MEK)	ug/m3	30	29.6	99	65-143	
2-Hexanone	ug/m3	41.6	43.2	104	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	40.3	97	70-135	
Acetone	ug/m3	121	116	96	59-132	
Benzene	ug/m3	32.5	29.5	91	70-134	
Bromodichloromethane	ug/m3	68.1	70.5	104	70-142	
Bromoform	ug/m3	105	128	122	69-150	
Bromomethane	ug/m3	39.5	43.4	110	61-141	
Carbon disulfide	ug/m3	31.6	33.9	107	66-134	
Carbon tetrachloride	ug/m3	64	66.2	104	60-145	
Chlorobenzene	ug/m3	46.8	42.9	92	70-130	
Chloroethane	ug/m3	26.8	32.6	122	65-143	
Chloroform	ug/m3	49.6	47.4	95	70-132	

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10423693

LABORATORY CONTROL SAMPLE: 2870632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	21.1	101	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	38.3	95	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	48.2	104	70-136	
Cyclohexane	ug/m3	35	32.9	94	70-133	
Dibromochloromethane	ug/m3	86.6	95.7	111	68-149	
Dichlorodifluoromethane	ug/m3	50.3	48.6	97	69-130	
Ethylbenzene	ug/m3	44.1	41.4	94	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	107	99	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	46.1	92	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	35.3	96	70-132	
Methylene Chloride	ug/m3	177	203	115	67-132	
Naphthalene	ug/m3	53.3	54.4	102	55-136	
Styrene	ug/m3	43.3	43.9	101	70-139	
Tetrachloroethene	ug/m3	68.9	61.9	90	70-133	
Toluene	ug/m3	38.3	35.1	92	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	37.5	93	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	50.9	110	70-135	
Trichloroethene	ug/m3	54.6	50.5	92	70-135	
Trichlorofluoromethane	ug/m3	57.1	58.9	103	59-140	
Vinyl chloride	ug/m3	26	28.2	109	70-141	
Xylene (Total)	ug/m3	132	125	94	70-138	

SAMPLE DUPLICATE: 2870758

Parameter	Units	10423257008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	1.6J		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10423693

SAMPLE DUPLICATE: 2870758

Parameter	Units	10423257008 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	9.6	10.1	6	25	
Benzene	ug/m3	ND	.39J		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	1.1	1.2	13	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.3	2.4	4	25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	.69J		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	1.4J		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	ND	ND		25	

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QUALIFIERS

Project: Sparrows Point IM
Pace Project No.: 10423693

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 2870758

[1]	The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
C8	Result may be biased high due to carryover from previously analyzed sample.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sparrows Point IM
Pace Project No.: 10423693

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10423693001	**Cell 2 AST**	TO-15	528882		
10423693002	**Cell 3**	TO-15	528882		
10423693003	**Cell 5 AST**	TO-15	528882		
10423693004	**Cell 5 INF Vapor**	TO-15	528882		

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WO# : 10423693

10423693

31615

Page: of

Section A
Required Client Information:

Company: EAG
Address: 1600 Sparrows Point Blvd Suite B2
Email To: jcalendra@eminoenvironmental.com
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: James Calendra
Copy To: Josh Burke
Purchase Order No.:
Project Name: Sparrows Point TAL
Project Number:

Section C
Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1650 Des Peres Rd. Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ ~~RCRA~~ ☐ Other X

Location of Sampling by State: MD

Reporting Units
ug/m³ X mg/m³ ___
PPBV X PPMV ___
Other ___

Report Level II.___ III.___ IV.___ Other___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 2 AST	6LC		[redacted]		3-12-18	0910	-30	0	1203						X					001
2	Cell 3	6LC				3-12-18	0930	30	0	811						X					002
3	Cell 5 AST	6LC				3-12-18	1010	30	0	1255						X					003
4	Cell 5 INF Vapor	6LC				3-12-18	1015	30	24	1063						X					004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
EAG	3-12-18	1030	Pace	3/15/18	1015

SAMPLE CONDITIONS

-	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
Temp in °C		Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Dec2017 Page 1 of 1
	Document No.: F-MN-A-106-rev.14	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAC

Project #: WO#: 10423693

PM: NB3 Due Date: 03/22/18

CLIENT: EnviroAnalyt

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 749630056374,6363

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: **Temp Blank rec:** [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** [ ] 151401163 [ ] G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** RG 3/15/18

Type of ice Received [ ] Blue [ ] Wet [X] None

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[ ] Yes	[X] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11. Individually Certified Cans Y (N) (list which samples)
Sample Labels Match COC?	[X] Yes	[ ] No	[ ] N/A	12.

Samples Received: FFFT, 8 stand alone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
2 AST		—	+.5	5					
3		—	+.5	"					
5 AST		—	+1	"					
5 INF		—	-22	"					
unused	2744	—	-27	—					
"	2097	—	-29	—					
"	2703	—	-30	—					
"	1285	—	-30	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 3/26/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693001
Client Sample ID: Cell 2 AST

ProjSampleNum: 10423693001
Matrix: Air

Date Collected: 03/12/18 9:10
Date Received: 03/15/18 10:15

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	3.9	39	03/25/18 0:44	MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	3.9	39	03/25/18 0:44	MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-35-4	
1,2,3-Trimethylbenzene	30.2	ppbv	7.8	39	03/25/18 0:44	MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	19.5	39	03/25/18 0:44	MJL	120-82-1	
1,2,4-Trimethylbenzene	196	ppbv	7.8	39	03/25/18 0:44	MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	7.8	39	03/25/18 0:44	MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	3.9	39	03/25/18 0:44	MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	78-87-5	
1,3,5-Trimethylbenzene	120	ppbv	7.8	39	03/25/18 0:44	MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	39	39	03/25/18 0:44	MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	39	39	03/25/18 0:44	MJL	78-93-3	
2-Hexanone	ND	ppbv	38.9	39	03/25/18 0:44	MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	38.9	39	03/25/18 0:44	MJL	108-10-1	
Acetone	ND	ppbv	38.9	39	03/25/18 0:44	MJL	67-64-1	
Benzene	1620000	ppbv	998	9984	03/25/18 13:30	CH1	71-43-2	A3, E
Bromodichloromethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-27-4	
Bromoform	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-25-2	
Bromomethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	74-83-9	
Carbon disulfide	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	3.9	39	03/25/18 0:44	MJL	56-23-5	
Chlorobenzene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	108-90-7	
Chloroethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-00-3	
Chloroform	ND	ppbv	3.9	39	03/25/18 0:44	MJL	67-66-3	
Chloromethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	10061-01-5	
Cyclohexane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	110-82-7	
Dibromochloromethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	124-48-1	
Dichlorodifluoromethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-71-8	
Ethylbenzene	816	ppbv	7.8	39	03/25/18 0:44	MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	87-68-3	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693001 ProjSampleNum: 10423693001 Date Collected: 03/12/18 9:10
Client Sample ID: Cell 2 AST Matrix: Air Date Received: 03/15/18 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
Isopropylbenzene (Cumene)	ND	ppbv	19.5	39	03/25/18 0:44	MJL	98-82-8	
Methylene Chloride	ND	ppbv	97.4	39	03/25/18 0:44	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	39	39	03/25/18 0:44	MJL	1634-04-4	
Naphthalene	120	ppbv	19.5	39	03/25/18 0:44	MJL	91-20-3	
Styrene	126	ppbv	7.8	39	03/25/18 0:44	MJL	100-42-5	
Tetrachloroethene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	127-18-4	
Toluene	191000	ppbv	2000	9984	03/25/18 13:30	CH1	108-88-3	A3
trans-1,2-Dichloroethene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	7.8	39	03/25/18 0:44	MJL	10061-02-6	
Trichloroethene	ND	ppbv	3.9	39	03/25/18 0:44	MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	7.8	39	03/25/18 0:44	MJL	75-69-4	
Vinyl chloride	ND	ppbv	3.9	39	03/25/18 0:44	MJL	75-01-4	
Xylene (Total)	42800	ppbv	6000	9984	03/25/18 13:30	CH1	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693002
Client Sample ID: Cell 3

ProjSampleNum: 10423693002
Matrix: Air

Date Collected: 03/12/18 9:30
Date Received: 03/15/18 10:15

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	3.9	39	03/25/18 0:10	MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	3.9	39	03/25/18 0:10	MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-35-4	
1,2,3-Trimethylbenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	19.5	39	03/25/18 0:10	MJL	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	7.8	39	03/25/18 0:10	MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	3.9	39	03/25/18 0:10	MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	39	39	03/25/18 0:10	MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	39	39	03/25/18 0:10	MJL	78-93-3	
2-Hexanone	ND	ppbv	38.9	39	03/25/18 0:10	MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	38.9	39	03/25/18 0:10	MJL	108-10-1	
Acetone	ND	ppbv	38.9	39	03/25/18 0:10	MJL	67-64-1	
Benzene	6810	ppbv	62.5	624	03/25/18 12:59	CH1	71-43-2	A3
Bromodichloromethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-27-4	
Bromoform	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-25-2	
Bromomethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	74-83-9	
Carbon disulfide	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	3.9	39	03/25/18 0:10	MJL	56-23-5	
Chlorobenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	108-90-7	
Chloroethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-00-3	
Chloroform	ND	ppbv	3.9	39	03/25/18 0:10	MJL	67-66-3	
Chloromethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	10061-01-5	
Cyclohexane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	110-82-7	
Dibromochloromethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	124-48-1	
Dichlorodifluoromethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-71-8	
Ethylbenzene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	87-68-3	

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693002
Client Sample ID: Cell 3

ProjSampleNum: 10423693002
Matrix: Air

Date Collected: 03/12/18 9:30
Date Received: 03/15/18 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
Isopropylbenzene (Cumene)	ND	ppbv	19.5	39	03/25/18 0:10	MJL	98-82-8	
Methylene Chloride	ND	ppbv	97.4	39	03/25/18 0:10	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	39	39	03/25/18 0:10	MJL	1634-04-4	
Naphthalene	43.9	ppbv	19.5	39	03/25/18 0:10	MJL	91-20-3	C8
Styrene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	100-42-5	
Tetrachloroethene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	127-18-4	
Toluene	298	ppbv	7.8	39	03/25/18 0:10	MJL	108-88-3	
trans-1,2-Dichloroethene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	7.8	39	03/25/18 0:10	MJL	10061-02-6	
Trichloroethene	ND	ppbv	3.9	39	03/25/18 0:10	MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	7.8	39	03/25/18 0:10	MJL	75-69-4	
Vinyl chloride	ND	ppbv	3.9	39	03/25/18 0:10	MJL	75-01-4	
Xylene (Total)	79.7	ppbv	23.3	39	03/25/18 0:10	MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

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ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693003
Client Sample ID: Cell 5 AST

ProjSampleNum: 10423693003
Matrix: Air

Date Collected: 03/12/18 10:10
Date Received: 03/15/18 10:15

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	3.8	37.8	03/24/18 23:36	MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	3.8	37.8	03/24/18 23:36	MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	75-35-4	
1,2,3-Trimethylbenzene	45.4	ppbv	7.6	37.8	03/24/18 23:36	MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	19	37.8	03/24/18 23:36	MJL	120-82-1	
1,2,4-Trimethylbenzene	170	ppbv	7.6	37.8	03/24/18 23:36	MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	7.5	37.8	03/24/18 23:36	MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	3.8	37.8	03/24/18 23:36	MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	78-87-5	
1,3,5-Trimethylbenzene	82.2	ppbv	7.6	37.8	03/24/18 23:36	MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	7.5	37.8	03/24/18 23:36	MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	7.5	37.8	03/24/18 23:36	MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	37.7	37.8	03/24/18 23:36	MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	37.7	37.8	03/24/18 23:36	MJL	78-93-3	
2-Hexanone	ND	ppbv	37.7	37.8	03/24/18 23:36	MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	37.7	37.8	03/24/18 23:36	MJL	108-10-1	
Acetone	ND	ppbv	37.7	37.8	03/24/18 23:36	MJL	67-64-1	
Benzene	3110	ppbv	15.1	151.2	03/25/18 12:27	CH1	71-43-2	A3
Bromodichloromethane	ND	ppbv	7.5	37.8	03/24/18 23:36	MJL	75-27-4	
Bromoform	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	75-25-2	
Bromomethane	ND	ppbv	7.5	37.8	03/24/18 23:36	MJL	74-83-9	
Carbon disulfide	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	3.8	37.8	03/24/18 23:36	MJL	56-23-5	
Chlorobenzene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	108-90-7	
Chloroethane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	75-00-3	
Chloroform	ND	ppbv	3.8	37.8	03/24/18 23:36	MJL	67-66-3	
Chloromethane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	10061-01-5	
Cyclohexane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	110-82-7	
Dibromochloromethane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	124-48-1	
Dichlorodifluoromethane	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	75-71-8	
Ethylbenzene	58.7	ppbv	7.6	37.8	03/24/18 23:36	MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	87-68-3	

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693003
Client Sample ID: Cell 5 AST

ProjSampleNum: 10423693003
Matrix: Air

Date Collected: 03/12/18 10:10
Date Received: 03/15/18 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Air								
Isopropylbenzene (Cumene)	ND	ppbv	18.9	37.8	03/24/18 23:36	MJL	98-82-8	
Methylene Chloride	ND	ppbv	94.6	37.8	03/24/18 23:36	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	37.7	37.8	03/24/18 23:36	MJL	1634-04-4	
Naphthalene	3210	ppbv	75.5	151.2	03/25/18 12:27	CH1	91-20-3	A3
Styrene	289	ppbv	7.6	37.8	03/24/18 23:36	MJL	100-42-5	
Tetrachloroethene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	127-18-4	
Toluene	762	ppbv	7.6	37.8	03/24/18 23:36	MJL	108-88-3	
trans-1,2-Dichloroethene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	7.6	37.8	03/24/18 23:36	MJL	10061-02-6	
Trichloroethene	ND	ppbv	3.8	37.8	03/24/18 23:36	MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	7.5	37.8	03/24/18 23:36	MJL	75-69-4	
Vinyl chloride	ND	ppbv	3.8	37.8	03/24/18 23:36	MJL	75-01-4	
Xylene (Total)	1180	ppbv	22.7	37.8	03/24/18 23:36	MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693004
Client Sample ID: Cell 5 INF Vapor

ProjSampleNum: 10423693004
Matrix: Air

Date Collected: 03/12/18 10:15
Date Received: 03/15/18 10:15

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	15.2	151.8	03/24/18 23:03	MJL	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	15.2	151.8	03/24/18 23:03	MJL	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	76-13-1	
1,1-Dichloroethane	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	75-34-3	
1,1-Dichloroethene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	75-35-4	
1,2,3-Trimethylbenzene	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	526-73-8	
1,2,4-Trichlorobenzene	ND	ppbv	75.8	151.8	03/24/18 23:03	MJL	120-82-1	
1,2,4-Trimethylbenzene	41.6	ppbv	30.4	151.8	03/24/18 23:03	MJL	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	95-50-1	
1,2-Dichloroethane	ND	ppbv	15.2	151.8	03/24/18 23:03	MJL	107-06-2	
1,2-Dichloropropane	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	108-67-8	
1,3-Dichlorobenzene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	152	151.8	03/24/18 23:03	MJL	123-91-1	
2-Butanone (MEK)	ND	ppbv	152	151.8	03/24/18 23:03	MJL	78-93-3	
2-Hexanone	ND	ppbv	152	151.8	03/24/18 23:03	MJL	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	152	151.8	03/24/18 23:03	MJL	108-10-1	
Acetone	ND	ppbv	152	151.8	03/24/18 23:03	MJL	67-64-1	
Benzene	2130	ppbv	30.3	151.8	03/24/18 23:03	MJL	71-43-2	
Bromodichloromethane	ND	ppbv	30.2	151.8	03/24/18 23:03	MJL	75-27-4	
Bromoform	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	75-25-2	
Bromomethane	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	74-83-9	
Carbon disulfide	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	75-15-0	
Carbon tetrachloride	ND	ppbv	15.2	151.8	03/24/18 23:03	MJL	56-23-5	
Chlorobenzene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	108-90-7	
Chloroethane	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	75-00-3	
Chloroform	ND	ppbv	15.2	151.8	03/24/18 23:03	MJL	67-66-3	
Chloromethane	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	74-87-3	
cis-1,2-Dichloroethene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	10061-01-5	
Cyclohexane	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	110-82-7	
Dibromochloromethane	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	124-48-1	
Dichlorodifluoromethane	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	75-71-8	
Ethylbenzene	ND	ppbv	30.4	151.8	03/24/18 23:03	MJL	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	87-68-3	

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

Lab Sample No: 10423693004
Client Sample ID: Cell 5 INF Vapor

ProjSampleNum: 10423693004
Matrix: Air

Date Collected: 03/12/18 10:15
Date Received: 03/15/18 10:15

Air

Parameters	Results	Units	Report Limit	DF	Analyzed		CAS No.	Qualifiers
Isopropylbenzene (Cumene)	ND	ppbv	76	151.8	03/24/18 23:03	MJL	98-82-8	
Methylene Chloride	ND	ppbv	380	151.8	03/24/18 23:03	MJL	75-09-2	
Methyl-tert-butyl ether	ND	ppbv	152	151.8	03/24/18 23:03	MJL	1634-04-4	
Naphthalene	ND	ppbv	75.9	151.8	03/24/18 23:03	MJL	91-20-3	
Styrene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	100-42-5	
Tetrachloroethene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	127-18-4	
Toluene	120	ppbv	30.3	151.8	03/24/18 23:03	MJL	108-88-3	
trans-1,2-Dichloroethene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	10061-02-6	
Trichloroethene	ND	ppbv	15.2	151.8	03/24/18 23:03	MJL	79-01-6	
Trichlorofluoromethane	ND	ppbv	30.3	151.8	03/24/18 23:03	MJL	75-69-4	
Vinyl chloride	ND	ppbv	15.2	151.8	03/24/18 23:03	MJL	75-01-4	
Xylene (Total)	ND	ppbv	91.1	151.8	03/24/18 23:03	MJL	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
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Minneapolis, MN 55414
Phone: 612.607.1700
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ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10423693
Project Name: Sparrows Point IM

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

[A3] The sample was analyzed by serial dilution.

[C8] Result may be biased high due to carryover from previously analyzed sample.

[E] Analyte concentration exceeded the calibration range. The reported result is estimated.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 19, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: TO-15
Pace Project No.: 10427091

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on April 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: TO-15
Pace Project No.: 10427091

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: TO-15
Pace Project No.: 10427091

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10427091001	**Cell 2 AST**	Air	04/03/18 11:35	04/12/18 09:40
10427091002	**Cell 2 AS/SVE**	Air	04/03/18 12:55	04/12/18 09:40
10427091003	**Cell 5 AST**	Air	04/03/18 13:20	04/12/18 09:40
10427091004	**Cell 3**	Air	04/03/18 08:40	04/12/18 09:40

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Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: TO-15
Pace Project No.: 10427091

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10427091001	**Cell 2 AST**	TO-15	CH1, MLS	51
10427091002	**Cell 2 AS/SVE**	TO-15	CH1	51
10427091003	**Cell 5 AST**	TO-15	CH1	51
10427091004	**Cell 3**	TO-15	CH1	51

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: TO-15
Pace Project No.: 10427091

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: April 19, 2018

General Information:
4 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 532759

A3: The sample was analyzed by serial dilution.
- Cell 2 AST (Lab ID: 10427091001)
  - Benzene
  - Toluene
- Cell 3 (Lab ID: 10427091004)
  - Benzene
  - Toluene
- Cell 5 AST (Lab ID: 10427091003)
  - Benzene
  - Naphthalene
  - Toluene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- Cell 2 AST (Lab ID: 10427091001)
  - Naphthalene

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: TO-15
Pace Project No.: 10427091

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: April 19, 2018

Analyte Comments:

QC Batch: 532759

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 2893254)
  - 1,2,3-Trimethylbenzene
- Cell 2 AS/SVE (Lab ID: 10427091002)
  - 1,2,3-Trimethylbenzene
- Cell 2 AST (Lab ID: 10427091001)
  - 1,2,3-Trimethylbenzene
- Cell 3 (Lab ID: 10427091004)
  - 1,2,3-Trimethylbenzene
- Cell 5 AST (Lab ID: 10427091003)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 2894322)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 2894323)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 2893255)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 2 AST **Lab ID: 10427091001** Collected: 04/03/18 11:35 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**17.6**	ug/m3	2.9	1.22		04/18/18 03:57	67-64-1	
Benzene	**68900**	ug/m3	2030	6246		04/19/18 13:39	71-43-2	A3
Bromodichloromethane	ND	ug/m3	1.7	1.22		04/18/18 03:57	75-27-4	
Bromoform	ND	ug/m3	2.6	1.22		04/18/18 03:57	75-25-2	
Bromomethane	ND	ug/m3	0.96	1.22		04/18/18 03:57	74-83-9	
2-Butanone (MEK)	**5.6**	ug/m3	3.7	1.22		04/18/18 03:57	78-93-3	
Carbon disulfide	**3.0**	ug/m3	0.77	1.22		04/18/18 03:57	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.78	1.22		04/18/18 03:57	56-23-5	
Chlorobenzene	ND	ug/m3	1.1	1.22		04/18/18 03:57	108-90-7	
Chloroethane	ND	ug/m3	0.65	1.22		04/18/18 03:57	75-00-3	
Chloroform	ND	ug/m3	0.61	1.22		04/18/18 03:57	67-66-3	
Chloromethane	**0.96**	ug/m3	0.51	1.22		04/18/18 03:57	74-87-3	
Cyclohexane	ND	ug/m3	0.85	1.22		04/18/18 03:57	110-82-7	
Dibromochloromethane	ND	ug/m3	2.1	1.22		04/18/18 03:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.9	1.22		04/18/18 03:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.5	1.22		04/18/18 03:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.5	1.22		04/18/18 03:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	1.22		04/18/18 03:57	106-46-7	
Dichlorodifluoromethane	**1.7**	ug/m3	1.2	1.22		04/18/18 03:57	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	1.22		04/18/18 03:57	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.50	1.22		04/18/18 03:57	107-06-2	
1,1-Dichloroethene	ND	ug/m3	0.98	1.22		04/18/18 03:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	0.98	1.22		04/18/18 03:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	0.98	1.22		04/18/18 03:57	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.1	1.22		04/18/18 03:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.1	1.22		04/18/18 03:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.1	1.22		04/18/18 03:57	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.5	1.22		04/18/18 03:57	123-91-1	
Ethylbenzene	**95.5**	ug/m3	1.1	1.22		04/18/18 03:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	6.6	1.22		04/18/18 03:57	87-68-3	
2-Hexanone	ND	ug/m3	5.1	1.22		04/18/18 03:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	3.0	1.22		04/18/18 03:57	98-82-8	
Methylene Chloride	ND	ug/m3	4.3	1.22		04/18/18 03:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.1	1.22		04/18/18 03:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.5	1.22		04/18/18 03:57	1634-04-4	
Naphthalene	**567**	ug/m3	3.2	1.22		04/18/18 03:57	91-20-3	E
Styrene	**22.7**	ug/m3	1.1	1.22		04/18/18 03:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.85	1.22		04/18/18 03:57	79-34-5	
Tetrachloroethene	**4.1**	ug/m3	0.84	1.22		04/18/18 03:57	127-18-4	
Toluene	**3610**	ug/m3	150	195.2		04/18/18 18:31	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	4.6	1.22		04/18/18 03:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.22		04/18/18 03:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.68	1.22		04/18/18 03:57	79-00-5	
Trichloroethene	ND	ug/m3	0.67	1.22		04/18/18 03:57	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.4	1.22		04/18/18 03:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1.9	1.22		04/18/18 03:57	76-13-1	
1,2,3-Trimethylbenzene	**15.5**	ug/m3	1.2	1.22		04/18/18 03:57	526-73-8	N2

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(612)607-1700

ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 2 AST **Lab ID: 10427091001** Collected: 04/03/18 11:35 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**69.6**	ug/m3	1.2	1.22		04/18/18 03:57	95-63-6	
1,3,5-Trimethylbenzene	**31.2**	ug/m3	1.2	1.22		04/18/18 03:57	108-67-8	
Vinyl chloride	ND	ug/m3	0.32	1.22		04/18/18 03:57	75-01-4	
Xylene (Total)	**1370**	ug/m3	517	195.2		04/18/18 18:31	1330-20-7	

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ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 2 AS/SVE **Lab ID: 10427091002** Collected: 04/03/18 12:55 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**6.9**	ug/m3	3.0	1.26		04/18/18 02:17	67-64-1	
Benzene	**29.1**	ug/m3	0.41	1.26		04/18/18 02:17	71-43-2	
Bromodichloromethane	ND	ug/m3	1.7	1.26		04/18/18 02:17	75-27-4	
Bromoform	ND	ug/m3	2.6	1.26		04/18/18 02:17	75-25-2	
Bromomethane	ND	ug/m3	0.99	1.26		04/18/18 02:17	74-83-9	
2-Butanone (MEK)	ND	ug/m3	3.8	1.26		04/18/18 02:17	78-93-3	
Carbon disulfide	ND	ug/m3	0.80	1.26		04/18/18 02:17	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.81	1.26		04/18/18 02:17	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	1.26		04/18/18 02:17	108-90-7	
Chloroethane	ND	ug/m3	0.68	1.26		04/18/18 02:17	75-00-3	
Chloroform	ND	ug/m3	0.62	1.26		04/18/18 02:17	67-66-3	
Chloromethane	ND	ug/m3	0.53	1.26		04/18/18 02:17	74-87-3	
Cyclohexane	ND	ug/m3	0.88	1.26		04/18/18 02:17	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.26		04/18/18 02:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	1.26		04/18/18 02:17	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.5	1.26		04/18/18 02:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.5	1.26		04/18/18 02:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.5	1.26		04/18/18 02:17	106-46-7	
Dichlorodifluoromethane	**1.7**	ug/m3	1.3	1.26		04/18/18 02:17	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.0	1.26		04/18/18 02:17	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.52	1.26		04/18/18 02:17	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	1.26		04/18/18 02:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.26		04/18/18 02:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.26		04/18/18 02:17	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	1.26		04/18/18 02:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	1.26		04/18/18 02:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	1.26		04/18/18 02:17	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.6	1.26		04/18/18 02:17	123-91-1	
Ethylbenzene	ND	ug/m3	1.1	1.26		04/18/18 02:17	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	6.8	1.26		04/18/18 02:17	87-68-3	
2-Hexanone	ND	ug/m3	5.2	1.26		04/18/18 02:17	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	3.2	1.26		04/18/18 02:17	98-82-8	
Methylene Chloride	**22.2**	ug/m3	4.4	1.26		04/18/18 02:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.2	1.26		04/18/18 02:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.6	1.26		04/18/18 02:17	1634-04-4	
Naphthalene	ND	ug/m3	3.4	1.26		04/18/18 02:17	91-20-3	
Styrene	ND	ug/m3	1.1	1.26		04/18/18 02:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.88	1.26		04/18/18 02:17	79-34-5	
Tetrachloroethene	ND	ug/m3	0.87	1.26		04/18/18 02:17	127-18-4	
Toluene	**6.9**	ug/m3	0.97	1.26		04/18/18 02:17	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	4.8	1.26		04/18/18 02:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.26		04/18/18 02:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.70	1.26		04/18/18 02:17	79-00-5	
Trichloroethene	ND	ug/m3	0.69	1.26		04/18/18 02:17	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.4	1.26		04/18/18 02:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	1.26		04/18/18 02:17	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	1.3	1.26		04/18/18 02:17	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 2 AS/SVE **Lab ID: 10427091002** Collected: 04/03/18 12:55 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1.3	1.26		04/18/18 02:17	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	1.26		04/18/18 02:17	108-67-8	
Vinyl chloride	ND	ug/m3	0.33	1.26		04/18/18 02:17	75-01-4	
Xylene (Total)	ND	ug/m3	3.3	1.26		04/18/18 02:17	1330-20-7	

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ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 5 AST **Lab ID: 10427091003** Collected: 04/03/18 13:20 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**16.2**	ug/m3	3.1	1.3		04/18/18 04:30	67-64-1	
Benzene	**672**	ug/m3	33.8	104		04/18/18 17:59	71-43-2	A3
Bromodichloromethane	ND	ug/m3	1.8	1.3		04/18/18 04:30	75-27-4	
Bromoform	ND	ug/m3	2.7	1.3		04/18/18 04:30	75-25-2	
Bromomethane	ND	ug/m3	1.0	1.3		04/18/18 04:30	74-83-9	
2-Butanone (MEK)	**5.4**	ug/m3	3.9	1.3		04/18/18 04:30	78-93-3	
Carbon disulfide	ND	ug/m3	0.82	1.3		04/18/18 04:30	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.83	1.3		04/18/18 04:30	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	1.3		04/18/18 04:30	108-90-7	
Chloroethane	ND	ug/m3	0.70	1.3		04/18/18 04:30	75-00-3	
Chloroform	ND	ug/m3	0.64	1.3		04/18/18 04:30	67-66-3	
Chloromethane	ND	ug/m3	0.55	1.3		04/18/18 04:30	74-87-3	
Cyclohexane	ND	ug/m3	0.91	1.3		04/18/18 04:30	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.3		04/18/18 04:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	1.3		04/18/18 04:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	1.3		04/18/18 04:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	1.3		04/18/18 04:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	1.3		04/18/18 04:30	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.3	1.3		04/18/18 04:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.3		04/18/18 04:30	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.53	1.3		04/18/18 04:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	1.3		04/18/18 04:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		04/18/18 04:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		04/18/18 04:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	1.3		04/18/18 04:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		04/18/18 04:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		04/18/18 04:30	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.8	1.3		04/18/18 04:30	123-91-1	
Ethylbenzene	**30.4**	ug/m3	1.1	1.3		04/18/18 04:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	7.0	1.3		04/18/18 04:30	87-68-3	
2-Hexanone	ND	ug/m3	5.4	1.3		04/18/18 04:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	3.2	1.3		04/18/18 04:30	98-82-8	
Methylene Chloride	ND	ug/m3	4.6	1.3		04/18/18 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.4	1.3		04/18/18 04:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.8	1.3		04/18/18 04:30	1634-04-4	
Naphthalene	**1690**	ug/m3	277	104		04/18/18 17:59	91-20-3	A3
Styrene	**167**	ug/m3	1.1	1.3		04/18/18 04:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.91	1.3		04/18/18 04:30	79-34-5	
Tetrachloroethene	ND	ug/m3	0.90	1.3		04/18/18 04:30	127-18-4	
Toluene	**491**	ug/m3	79.7	104		04/18/18 17:59	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	4.9	1.3		04/18/18 04:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.3		04/18/18 04:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.72	1.3		04/18/18 04:30	79-00-5	
Trichloroethene	ND	ug/m3	0.71	1.3		04/18/18 04:30	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	1.3		04/18/18 04:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	1.3		04/18/18 04:30	76-13-1	
1,2,3-Trimethylbenzene	**33.2**	ug/m3	1.3	1.3		04/18/18 04:30	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 5 AST **Lab ID: 10427091003** Collected: 04/03/18 13:20 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**113**	ug/m3	1.3	1.3		04/18/18 04:30	95-63-6	
1,3,5-Trimethylbenzene	**56.6**	ug/m3	1.3	1.3		04/18/18 04:30	108-67-8	
Vinyl chloride	ND	ug/m3	0.34	1.3		04/18/18 04:30	75-01-4	
Xylene (Total)	**711**	ug/m3	276	104		04/18/18 17:59	1330-20-7	

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ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 3 **Lab ID: 10427091004** Collected: 04/03/18 08:40 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**11.2**	ug/m3	3.1	1.3		04/18/18 02:51	67-64-1	
Benzene	**16400**	ug/m3	67.6	208		04/18/18 19:03	71-43-2	A3
Bromodichloromethane	ND	ug/m3	1.8	1.3		04/18/18 02:51	75-27-4	
Bromoform	ND	ug/m3	2.7	1.3		04/18/18 02:51	75-25-2	
Bromomethane	ND	ug/m3	1.0	1.3		04/18/18 02:51	74-83-9	
2-Butanone (MEK)	ND	ug/m3	3.9	1.3		04/18/18 02:51	78-93-3	
Carbon disulfide	**1.7**	ug/m3	0.82	1.3		04/18/18 02:51	75-15-0	
Carbon tetrachloride	ND	ug/m3	0.83	1.3		04/18/18 02:51	56-23-5	
Chlorobenzene	ND	ug/m3	1.2	1.3		04/18/18 02:51	108-90-7	
Chloroethane	ND	ug/m3	0.70	1.3		04/18/18 02:51	75-00-3	
Chloroform	ND	ug/m3	0.64	1.3		04/18/18 02:51	67-66-3	
Chloromethane	ND	ug/m3	0.55	1.3		04/18/18 02:51	74-87-3	
Cyclohexane	ND	ug/m3	0.91	1.3		04/18/18 02:51	110-82-7	
Dibromochloromethane	ND	ug/m3	2.2	1.3		04/18/18 02:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2.0	1.3		04/18/18 02:51	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.6	1.3		04/18/18 02:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.6	1.3		04/18/18 02:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	1.6	1.3		04/18/18 02:51	106-46-7	
Dichlorodifluoromethane	**1.7**	ug/m3	1.3	1.3		04/18/18 02:51	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.3		04/18/18 02:51	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.53	1.3		04/18/18 02:51	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.0	1.3		04/18/18 02:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		04/18/18 02:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.0	1.3		04/18/18 02:51	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.2	1.3		04/18/18 02:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		04/18/18 02:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.2	1.3		04/18/18 02:51	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.8	1.3		04/18/18 02:51	123-91-1	
Ethylbenzene	**24.3**	ug/m3	1.1	1.3		04/18/18 02:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	7.0	1.3		04/18/18 02:51	87-68-3	
2-Hexanone	ND	ug/m3	5.4	1.3		04/18/18 02:51	591-78-6	
Isopropylbenzene (Cumene)	**3.6**	ug/m3	3.2	1.3		04/18/18 02:51	98-82-8	
Methylene Chloride	ND	ug/m3	4.6	1.3		04/18/18 02:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.4	1.3		04/18/18 02:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	4.8	1.3		04/18/18 02:51	1634-04-4	
Naphthalene	**7.5**	ug/m3	3.5	1.3		04/18/18 02:51	91-20-3	
Styrene	**1.9**	ug/m3	1.1	1.3		04/18/18 02:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.91	1.3		04/18/18 02:51	79-34-5	
Tetrachloroethene	ND	ug/m3	0.90	1.3		04/18/18 02:51	127-18-4	
Toluene	**1860**	ug/m3	159	208		04/18/18 19:03	108-88-3	A3
1,2,4-Trichlorobenzene	ND	ug/m3	4.9	1.3		04/18/18 02:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1.4	1.3		04/18/18 02:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.72	1.3		04/18/18 02:51	79-00-5	
Trichloroethene	ND	ug/m3	0.71	1.3		04/18/18 02:51	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1.5	1.3		04/18/18 02:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.0	1.3		04/18/18 02:51	76-13-1	
1,2,3-Trimethylbenzene	**4.7**	ug/m3	1.3	1.3		04/18/18 02:51	526-73-8	N2

REPORT OF LABORATORY ANALYSIS

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(612)607-1700

ANALYTICAL RESULTS

Project: TO-15
Pace Project No.: 10427091

Sample: Cell 3 **Lab ID: 10427091004** Collected: 04/03/18 08:40 Received: 04/12/18 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**7.9**	ug/m3	1.3	1.3		04/18/18 02:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1.3	1.3		04/18/18 02:51	108-67-8	
Vinyl chloride	ND	ug/m3	0.34	1.3		04/18/18 02:51	75-01-4	
Xylene (Total)	**351**	ug/m3	3.4	1.3		04/18/18 02:51	1330-20-7	

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QUALITY CONTROL DATA

Project: TO-15
Pace Project No.: 10427091

QC Batch: 532759 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10427091001, 10427091002, 10427091003, 10427091004

METHOD BLANK: 2893254 Matrix: Air
Associated Lab Samples: 10427091001, 10427091002, 10427091003, 10427091004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	04/17/18 10:06	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	04/17/18 10:06	
1,1,2-Trichloroethane	ug/m3	ND	0.56	04/17/18 10:06	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	04/17/18 10:06	
1,1-Dichloroethane	ug/m3	ND	0.82	04/17/18 10:06	
1,1-Dichloroethene	ug/m3	ND	0.81	04/17/18 10:06	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	04/17/18 10:06	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	04/17/18 10:06	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	04/17/18 10:06	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	04/17/18 10:06	
1,2-Dichlorobenzene	ug/m3	ND	1.2	04/17/18 10:06	
1,2-Dichloroethane	ug/m3	ND	0.41	04/17/18 10:06	
1,2-Dichloropropane	ug/m3	ND	0.94	04/17/18 10:06	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	04/17/18 10:06	
1,3-Dichlorobenzene	ug/m3	ND	1.2	04/17/18 10:06	
1,4-Dichlorobenzene	ug/m3	ND	1.2	04/17/18 10:06	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	04/17/18 10:06	
2-Butanone (MEK)	ug/m3	ND	3.0	04/17/18 10:06	
2-Hexanone	ug/m3	ND	4.2	04/17/18 10:06	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	04/17/18 10:06	
Acetone	ug/m3	ND	2.4	04/17/18 10:06	
Benzene	ug/m3	ND	0.32	04/17/18 10:06	
Bromodichloromethane	ug/m3	ND	1.4	04/17/18 10:06	
Bromoform	ug/m3	ND	2.1	04/17/18 10:06	
Bromomethane	ug/m3	ND	0.79	04/17/18 10:06	
Carbon disulfide	ug/m3	ND	0.63	04/17/18 10:06	
Carbon tetrachloride	ug/m3	ND	0.64	04/17/18 10:06	
Chlorobenzene	ug/m3	ND	0.94	04/17/18 10:06	
Chloroethane	ug/m3	ND	0.54	04/17/18 10:06	
Chloroform	ug/m3	ND	0.50	04/17/18 10:06	
Chloromethane	ug/m3	ND	0.42	04/17/18 10:06	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	04/17/18 10:06	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	04/17/18 10:06	
Cyclohexane	ug/m3	ND	0.70	04/17/18 10:06	
Dibromochloromethane	ug/m3	ND	1.7	04/17/18 10:06	
Dichlorodifluoromethane	ug/m3	ND	1.0	04/17/18 10:06	
Ethylbenzene	ug/m3	ND	0.88	04/17/18 10:06	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	04/17/18 10:06	MN
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	04/17/18 10:06	
Methyl-tert-butyl ether	ug/m3	ND	3.7	04/17/18 10:06	
Methylene Chloride	ug/m3	ND	3.5	04/17/18 10:06	

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QUALITY CONTROL DATA

Project: TO-15
Pace Project No.: 10427091

METHOD BLANK: 2893254 Matrix: Air
Associated Lab Samples: 10427091001, 10427091002, 10427091003, 10427091004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	04/17/18 10:06	
Styrene	ug/m3	ND	0.87	04/17/18 10:06	
Tetrachloroethene	ug/m3	ND	0.69	04/17/18 10:06	
Toluene	ug/m3	ND	0.77	04/17/18 10:06	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	04/17/18 10:06	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	04/17/18 10:06	
Trichloroethene	ug/m3	ND	0.55	04/17/18 10:06	
Trichlorofluoromethane	ug/m3	ND	1.1	04/17/18 10:06	
Vinyl chloride	ug/m3	ND	0.26	04/17/18 10:06	
Xylene (Total)	ug/m3	ND	2.6	04/17/18 10:06	

LABORATORY CONTROL SAMPLE: 2893255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	49.4	89	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	64.5	92	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	52.2	94	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	67.9	87	63-139	
1,1-Dichloroethane	ug/m3	41.1	36.8	89	70-134	
1,1-Dichloroethene	ug/m3	40.3	36.6	91	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	46.6	93	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	60.4	80	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	46.0	92	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	71.4	91	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	60.6	99	70-137	
1,2-Dichloroethane	ug/m3	41.1	37.3	91	70-136	
1,2-Dichloropropane	ug/m3	47	43.1	92	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	45.8	92	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	61.5	101	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	64.2	105	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	90.0	98	70-145	
2-Butanone (MEK)	ug/m3	30	27.9	93	65-143	
2-Hexanone	ug/m3	41.6	39.0	94	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	38.3	92	70-135	
Acetone	ug/m3	121	96.3	80	59-132	
Benzene	ug/m3	32.5	28.6	88	70-134	
Bromodichloromethane	ug/m3	68.1	61.2	90	70-142	
Bromoform	ug/m3	105	102	97	69-150	
Bromomethane	ug/m3	39.5	34.8	88	61-141	
Carbon disulfide	ug/m3	31.6	28.3	89	66-134	
Carbon tetrachloride	ug/m3	64	56.9	89	60-145	
Chlorobenzene	ug/m3	46.8	42.7	91	70-130	
Chloroethane	ug/m3	26.8	23.5	88	65-143	
Chloroform	ug/m3	49.6	42.7	86	70-132	

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(612)607-1700

QUALITY CONTROL DATA

Project: TO-15
Pace Project No.: 10427091

LABORATORY CONTROL SAMPLE: 2893255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	19.0	91	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	37.4	93	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	44.0	95	70-136	
Cyclohexane	ug/m3	35	30.1	86	70-133	
Dibromochloromethane	ug/m3	86.6	80.4	93	68-149	
Dichlorodifluoromethane	ug/m3	50.3	42.6	85	69-130	
Ethylbenzene	ug/m3	44.1	40.2	91	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	84.4	78	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	44.8	90	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	32.3	88	70-132	
Methylene Chloride	ug/m3	177	151	86	67-132	
Naphthalene	ug/m3	53.3	43.0	81	55-136	
Styrene	ug/m3	43.3	40.6	94	70-139	
Tetrachloroethene	ug/m3	68.9	59.3	86	70-133	
Toluene	ug/m3	38.3	34.5	90	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	38.2	95	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	45.1	98	70-135	
Trichloroethene	ug/m3	54.6	48.2	88	70-135	
Trichlorofluoromethane	ug/m3	57.1	49.9	87	59-140	
Vinyl chloride	ug/m3	26	23.5	91	70-141	
Xylene (Total)	ug/m3	132	116	87	70-138	

SAMPLE DUPLICATE: 2894322

Parameter	Units	10425570015 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	26.9	26.3	2	25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	47.6	46.0	3	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	14.8	14.8	0	25	
2-Hexanone	ug/m3	ND	5.6J		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	12.9	12.8	1	25	

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QUALITY CONTROL DATA

Project: TO-15
Pace Project No.: 10427091

SAMPLE DUPLICATE: 2894322

Parameter	Units	10425570015 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	75.7	75.1	1	25	
Benzene	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	1.6	1.7	5	25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	7.2	7.2	0	25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	414	386	7	25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	4.6	4.6	1	25	
Ethylbenzene	ug/m3	3.1	3.2	2	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	7.3	7.0	4	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	66.0	67.2	2	25	
Naphthalene	ug/m3	24.2	24.7	2	25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	161	159	2	25	
Toluene	ug/m3	12.4	12.7	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	65.5	65.7	0	25	
Trichlorofluoromethane	ug/m3	4.5	4.4	3	25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	54.0	52.8	2	25	

SAMPLE DUPLICATE: 2894323

Parameter	Units	10425570020 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: TO-15
Pace Project No.: 10427091

SAMPLE DUPLICATE: 2894323

Parameter	Units	10425570020 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	14.4	14.4	0	25	
Benzene	ug/m3	ND	.45J		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	0.93	0.91	2	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	2.8	2.7	4	25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.9	3.0	2	25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	43.9	46.2	5	25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	2.3	2.2	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	9.1	8.7	5	25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	ND	ND		25	

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QUALIFIERS

Project: TO-15
Pace Project No.: 10427091

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO-15
Pace Project No.: 10427091

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10427091001	**Cell 2 AST**	TO-15	532759		
10427091002	**Cell 2 AS/SVE**	TO-15	532759		
10427091003	**Cell 5 AST**	TO-15	532759		
10427091004	**Cell 3**	TO-15	532759		

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO# : 10427091

10427091

32960

Page: of

Section A Required Client Information:

Company: EAC
Address: 1000 Sparrows Point Blvd Suite 132
Email To: jcalenda@environanalytics group.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Calenda
Copy To: Josh Burke
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: Laura Sargent
Company Name: EAC
Address: 1630 Des Peres Rd Suite 303 St Louis, MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State:

Reporting Units
ug/m³ mg/m³
PPBV PPMV
Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 2 AST	6LC				4/3/18	1135	30	0	84						X					001
2	Cell 2 AS/SVE	6LC				4-3-18	1255	25	0	2344						X					002
3	Cell 5 AST	6LC				4-3-18	1320	30	0	1264						X					003
4	Cell 3	6LC				4-3-18	0840	30	2	1575						X					004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	4-9-18	0800	DATE	4-12-18	940

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Dec2017 Page 1 of 1
	Document No.: F-MN-A-106-rev.14	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO#: 10427091

PM: NB3 Due Date: 04/19/18

CLIENT: EnviroAnalyt

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 7476 3006 5368

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: **Temp Blank rec:** [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** [ ] 151401163 [ ] G87A9155200842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** RG 4/12/18

Type of ice Received [ ] Blue [ ] Wet [X] None

				Comments:
Chain of Custody Present?	[X] Yes	[ ] No	[ ] N/A	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	[ ] N/A	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	[ ] N/A	3.
Sampler Name and/or Signature on COC?	[ ] Yes	[X] No	[ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	[ ] N/A	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	[ ] N/A	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	[ ] N/A	7.
Sufficient Volume?	[X] Yes	[ ] No	[ ] N/A	8.
Correct Containers Used?	[X] Yes	[ ] No	[ ] N/A	9.
-Pace Containers Used?	[X] Yes	[ ] No	[ ] N/A	
Containers Intact?	[X] Yes	[ ] No	[ ] N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11. Individually Certified Cans Y (N) (list which samples)
Sample Labels Match COC?	[X] Yes	[ ] No	[ ] N/A	12.

Samples Received: 4 stand alone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
2AST			+1.5	5					
AS/SVE			+1	11					
5AST			+0.5	4					
cell3			+0.5	h					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Roberg **Date:** 4/12/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 18, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: Air
Pace Project No.: 10430819

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: Air
Pace Project No.: 10430819

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Air
Pace Project No.: 10430819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10430819001	**Cell 2 AST**	Air	05/02/18 08:58	05/11/18 10:00
10430819002	**Cell 1 1-14**	Air	05/02/18 09:15	05/11/18 10:00
10430819003	**Cell 3**	Air	05/02/18 08:20	05/11/18 10:00
10430819004	**Cell 1 15-25**	Air	05/02/18 11:30	05/11/18 10:00

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SAMPLE ANALYTE COUNT

Project: Air
Pace Project No.: 10430819

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10430819001	**Cell 2 AST**	TO-15	MG2	51
10430819002	**Cell 1 1-14**	TO-15	MG2	51
10430819003	**Cell 3**	TO-15	MG2	51
10430819004	**Cell 1 15-25**	TO-15	MG2	51

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Air
Pace Project No.: 10430819

Date: May 18, 2018

DUP (Lab ID: 2930897)

- A3: This result is reported from a serial dilution.

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PROJECT NARRATIVE

Project: Air
Pace Project No.: 10430819

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: May 18, 2018

General Information:
4 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 538610

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- DUP (Lab ID: 2930886)
  - Carbon disulfide
- LCS (Lab ID: 2928458)
  - 1,2-Dichlorobenzene
  - 1,3-Dichlorobenzene
  - 1,4-Dichlorobenzene
  - 2-Hexanone
  - Carbon disulfide
  - Dibromochloromethane
  - trans-1,3-Dichloropropene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 538610

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 2928458)
  - 1,4-Dichlorobenzene

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

- LCS (Lab ID: 2928458)
  - trans-1,3-Dichloropropene

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PROJECT NARRATIVE

Project: Air
Pace Project No.: 10430819

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: May 18, 2018

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 538610

A3: The sample was analyzed by serial dilution.

- Cell 1 1-14 (Lab ID: 10430819002)
  - Benzene
- Cell 1 15-25 (Lab ID: 10430819004)
  - Benzene
- Cell 2 AST (Lab ID: 10430819001)
  - Benzene
- Cell 3 (Lab ID: 10430819003)
  - Benzene
- DUP (Lab ID: 2930886)
  - Vinyl chloride

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 2928457)
  - 1,2,3-Trimethylbenzene
- Cell 1 1-14 (Lab ID: 10430819002)
  - 1,2,3-Trimethylbenzene
- Cell 1 15-25 (Lab ID: 10430819004)
  - 1,2,3-Trimethylbenzene
- Cell 2 AST (Lab ID: 10430819001)
  - 1,2,3-Trimethylbenzene
- Cell 3 (Lab ID: 10430819003)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 2930886)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 2930897)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 2928458)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 2 AST **Lab ID: 10430819001** Collected: 05/02/18 08:58 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	71.8	29.8		05/17/18 00:34	67-64-1	
Benzene	**21600**	ug/m3	620	1907		05/17/18 18:12	71-43-2	A3
Bromodichloromethane	ND	ug/m3	40.5	29.8		05/17/18 00:34	75-27-4	
Bromoform	ND	ug/m3	157	29.8		05/17/18 00:34	75-25-2	
Bromomethane	ND	ug/m3	23.5	29.8		05/17/18 00:34	74-83-9	
2-Butanone (MEK)	ND	ug/m3	89.4	29.8		05/17/18 00:34	78-93-3	
Carbon disulfide	ND	ug/m3	18.9	29.8		05/17/18 00:34	75-15-0	
Carbon tetrachloride	ND	ug/m3	19.0	29.8		05/17/18 00:34	56-23-5	
Chlorobenzene	ND	ug/m3	27.9	29.8		05/17/18 00:34	108-90-7	
Chloroethane	ND	ug/m3	16.0	29.8		05/17/18 00:34	75-00-3	
Chloroform	ND	ug/m3	14.8	29.8		05/17/18 00:34	67-66-3	
Chloromethane	ND	ug/m3	12.5	29.8		05/17/18 00:34	74-87-3	
Cyclohexane	ND	ug/m3	20.9	29.8		05/17/18 00:34	110-82-7	
Dibromochloromethane	ND	ug/m3	51.6	29.8		05/17/18 00:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	46.5	29.8		05/17/18 00:34	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	36.4	29.8		05/17/18 00:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	36.4	29.8		05/17/18 00:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	36.4	29.8		05/17/18 00:34	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	30.1	29.8		05/17/18 00:34	75-71-8	
1,1-Dichloroethane	ND	ug/m3	24.5	29.8		05/17/18 00:34	75-34-3	
1,2-Dichloroethane	ND	ug/m3	12.2	29.8		05/17/18 00:34	107-06-2	
1,1-Dichloroethene	ND	ug/m3	24.0	29.8		05/17/18 00:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	24.0	29.8		05/17/18 00:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	24.0	29.8		05/17/18 00:34	156-60-5	
1,2-Dichloropropane	ND	ug/m3	28.0	29.8		05/17/18 00:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	27.5	29.8		05/17/18 00:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	27.5	29.8		05/17/18 00:34	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	109	29.8		05/17/18 00:34	123-91-1	
Ethylbenzene	**109**	ug/m3	26.3	29.8		05/17/18 00:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	64.7	29.8		05/17/18 00:34	87-68-3	
2-Hexanone	ND	ug/m3	124	29.8		05/17/18 00:34	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	74.5	29.8		05/17/18 00:34	98-82-8	
Methylene Chloride	ND	ug/m3	105	29.8		05/17/18 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	124	29.8		05/17/18 00:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	109	29.8		05/17/18 00:34	1634-04-4	
Naphthalene	**2250**	ug/m3	79.3	29.8		05/17/18 00:34	91-20-3	
Styrene	ND	ug/m3	25.8	29.8		05/17/18 00:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	20.8	29.8		05/17/18 00:34	79-34-5	
Tetrachloroethene	ND	ug/m3	20.5	29.8		05/17/18 00:34	127-18-4	
Toluene	**2540**	ug/m3	22.8	29.8		05/17/18 00:34	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	112	29.8		05/17/18 00:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	33.1	29.8		05/17/18 00:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	16.5	29.8		05/17/18 00:34	79-00-5	
Trichloroethene	ND	ug/m3	16.3	29.8		05/17/18 00:34	79-01-6	
Trichlorofluoromethane	ND	ug/m3	34.0	29.8		05/17/18 00:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	46.5	29.8		05/17/18 00:34	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	29.8	29.8		05/17/18 00:34	526-73-8	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 2 AST **Lab ID: 10430819001** Collected: 05/02/18 08:58 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**107**	ug/m3	29.8	29.8		05/17/18 00:34	95-63-6	
1,3,5-Trimethylbenzene	**43.1**	ug/m3	29.8	29.8		05/17/18 00:34	108-67-8	
Vinyl chloride	ND	ug/m3	7.7	29.8		05/17/18 00:34	75-01-4	
Xylene (Total)	**1440**	ug/m3	79.0	29.8		05/17/18 00:34	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 1 1-14 **Lab ID: 10430819002** Collected: 05/02/18 09:15 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	64.6	26.8		05/16/18 23:25	67-64-1	
Benzene	**43000**	ug/m3	1110	3430		05/17/18 18:47	71-43-2	A3
Bromodichloromethane	ND	ug/m3	36.4	26.8		05/16/18 23:25	75-27-4	
Bromoform	ND	ug/m3	141	26.8		05/16/18 23:25	75-25-2	
Bromomethane	ND	ug/m3	21.1	26.8		05/16/18 23:25	74-83-9	
2-Butanone (MEK)	ND	ug/m3	80.4	26.8		05/16/18 23:25	78-93-3	
Carbon disulfide	ND	ug/m3	17.0	26.8		05/16/18 23:25	75-15-0	
Carbon tetrachloride	ND	ug/m3	17.1	26.8		05/16/18 23:25	56-23-5	
Chlorobenzene	ND	ug/m3	25.1	26.8		05/16/18 23:25	108-90-7	
Chloroethane	ND	ug/m3	14.4	26.8		05/16/18 23:25	75-00-3	
Chloroform	ND	ug/m3	13.3	26.8		05/16/18 23:25	67-66-3	
Chloromethane	ND	ug/m3	11.3	26.8		05/16/18 23:25	74-87-3	
Cyclohexane	**47.1**	ug/m3	18.8	26.8		05/16/18 23:25	110-82-7	
Dibromochloromethane	ND	ug/m3	46.4	26.8		05/16/18 23:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	41.8	26.8		05/16/18 23:25	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	32.7	26.8		05/16/18 23:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	32.7	26.8		05/16/18 23:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	32.7	26.8		05/16/18 23:25	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.1	26.8		05/16/18 23:25	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.1	26.8		05/16/18 23:25	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.0	26.8		05/16/18 23:25	107-06-2	
1,1-Dichloroethene	ND	ug/m3	21.6	26.8		05/16/18 23:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	21.6	26.8		05/16/18 23:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	21.6	26.8		05/16/18 23:25	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.2	26.8		05/16/18 23:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	24.7	26.8		05/16/18 23:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	24.7	26.8		05/16/18 23:25	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	98.1	26.8		05/16/18 23:25	123-91-1	
Ethylbenzene	ND	ug/m3	23.7	26.8		05/16/18 23:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	58.2	26.8		05/16/18 23:25	87-68-3	
2-Hexanone	ND	ug/m3	111	26.8		05/16/18 23:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	67.0	26.8		05/16/18 23:25	98-82-8	
Methylene Chloride	ND	ug/m3	94.6	26.8		05/16/18 23:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	111	26.8		05/16/18 23:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	98.1	26.8		05/16/18 23:25	1634-04-4	
Naphthalene	ND	ug/m3	71.3	26.8		05/16/18 23:25	91-20-3	
Styrene	ND	ug/m3	23.2	26.8		05/16/18 23:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	18.7	26.8		05/16/18 23:25	79-34-5	
Tetrachloroethene	ND	ug/m3	18.5	26.8		05/16/18 23:25	127-18-4	
Toluene	**736**	ug/m3	20.5	26.8		05/16/18 23:25	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	101	26.8		05/16/18 23:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	29.7	26.8		05/16/18 23:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14.9	26.8		05/16/18 23:25	79-00-5	
Trichloroethene	ND	ug/m3	14.6	26.8		05/16/18 23:25	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.6	26.8		05/16/18 23:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	41.8	26.8		05/16/18 23:25	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	26.8	26.8		05/16/18 23:25	526-73-8	N2

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 1 1-14 **Lab ID: 10430819002** Collected: 05/02/18 09:15 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	26.8	26.8		05/16/18 23:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	26.8	26.8		05/16/18 23:25	108-67-8	
Vinyl chloride	ND	ug/m3	7.0	26.8		05/16/18 23:25	75-01-4	
Xylene (Total)	**216**	ug/m3	71.0	26.8		05/16/18 23:25	1330-20-7	

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 3 **Lab ID: 10430819003** Collected: 05/02/18 08:20 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	77.6	32.2		05/16/18 23:59	67-64-1	
Benzene	**10800**	ug/m3	335	1030		05/17/18 17:38	71-43-2	A3
Bromodichloromethane	ND	ug/m3	43.8	32.2		05/16/18 23:59	75-27-4	
Bromoform	ND	ug/m3	169	32.2		05/16/18 23:59	75-25-2	
Bromomethane	ND	ug/m3	25.4	32.2		05/16/18 23:59	74-83-9	
2-Butanone (MEK)	ND	ug/m3	96.6	32.2		05/16/18 23:59	78-93-3	
Carbon disulfide	ND	ug/m3	20.4	32.2		05/16/18 23:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	20.6	32.2		05/16/18 23:59	56-23-5	
Chlorobenzene	ND	ug/m3	30.1	32.2		05/16/18 23:59	108-90-7	
Chloroethane	ND	ug/m3	17.3	32.2		05/16/18 23:59	75-00-3	
Chloroform	ND	ug/m3	16.0	32.2		05/16/18 23:59	67-66-3	
Chloromethane	ND	ug/m3	13.5	32.2		05/16/18 23:59	74-87-3	
Cyclohexane	ND	ug/m3	22.5	32.2		05/16/18 23:59	110-82-7	
Dibromochloromethane	ND	ug/m3	55.7	32.2		05/16/18 23:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	50.2	32.2		05/16/18 23:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	39.3	32.2		05/16/18 23:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	39.3	32.2		05/16/18 23:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	39.3	32.2		05/16/18 23:59	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	32.5	32.2		05/16/18 23:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	26.5	32.2		05/16/18 23:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	13.2	32.2		05/16/18 23:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	26.0	32.2		05/16/18 23:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	26.0	32.2		05/16/18 23:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	26.0	32.2		05/16/18 23:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	30.2	32.2		05/16/18 23:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	29.7	32.2		05/16/18 23:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	29.7	32.2		05/16/18 23:59	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	118	32.2		05/16/18 23:59	123-91-1	
Ethylbenzene	ND	ug/m3	28.4	32.2		05/16/18 23:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	69.9	32.2		05/16/18 23:59	87-68-3	
2-Hexanone	ND	ug/m3	134	32.2		05/16/18 23:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	80.5	32.2		05/16/18 23:59	98-82-8	
Methylene Chloride	ND	ug/m3	114	32.2		05/16/18 23:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	134	32.2		05/16/18 23:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	118	32.2		05/16/18 23:59	1634-04-4	
Naphthalene	ND	ug/m3	85.7	32.2		05/16/18 23:59	91-20-3	
Styrene	ND	ug/m3	27.9	32.2		05/16/18 23:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	22.5	32.2		05/16/18 23:59	79-34-5	
Tetrachloroethene	ND	ug/m3	22.2	32.2		05/16/18 23:59	127-18-4	
Toluene	**718**	ug/m3	24.7	32.2		05/16/18 23:59	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	121	32.2		05/16/18 23:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	35.7	32.2		05/16/18 23:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	17.9	32.2		05/16/18 23:59	79-00-5	
Trichloroethene	ND	ug/m3	17.6	32.2		05/16/18 23:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	36.7	32.2		05/16/18 23:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	50.2	32.2		05/16/18 23:59	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	32.2	32.2		05/16/18 23:59	526-73-8	N2

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 3 **Lab ID: 10430819003** Collected: 05/02/18 08:20 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	32.2	32.2		05/16/18 23:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	32.2	32.2		05/16/18 23:59	108-67-8	
Vinyl chloride	ND	ug/m3	8.4	32.2		05/16/18 23:59	75-01-4	
Xylene (Total)	**146**	ug/m3	85.3	32.2		05/16/18 23:59	1330-20-7	

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 1 15-25 **Lab ID: 10430819004** Collected: 05/02/18 11:30 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	64.6	26.8		05/17/18 01:08	67-64-1	
Benzene	**210000**	ug/m3	1110	3430		05/17/18 19:21	71-43-2	A3
Bromodichloromethane	ND	ug/m3	36.4	26.8		05/17/18 01:08	75-27-4	
Bromoform	ND	ug/m3	141	26.8		05/17/18 01:08	75-25-2	
Bromomethane	ND	ug/m3	21.1	26.8		05/17/18 01:08	74-83-9	
2-Butanone (MEK)	ND	ug/m3	80.4	26.8		05/17/18 01:08	78-93-3	
Carbon disulfide	ND	ug/m3	17.0	26.8		05/17/18 01:08	75-15-0	
Carbon tetrachloride	ND	ug/m3	17.1	26.8		05/17/18 01:08	56-23-5	
Chlorobenzene	ND	ug/m3	25.1	26.8		05/17/18 01:08	108-90-7	
Chloroethane	ND	ug/m3	14.4	26.8		05/17/18 01:08	75-00-3	
Chloroform	ND	ug/m3	13.3	26.8		05/17/18 01:08	67-66-3	
Chloromethane	ND	ug/m3	11.3	26.8		05/17/18 01:08	74-87-3	
Cyclohexane	**161**	ug/m3	18.8	26.8		05/17/18 01:08	110-82-7	
Dibromochloromethane	ND	ug/m3	46.4	26.8		05/17/18 01:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	41.8	26.8		05/17/18 01:08	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	32.7	26.8		05/17/18 01:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	32.7	26.8		05/17/18 01:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	32.7	26.8		05/17/18 01:08	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.1	26.8		05/17/18 01:08	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.1	26.8		05/17/18 01:08	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.0	26.8		05/17/18 01:08	107-06-2	
1,1-Dichloroethene	ND	ug/m3	21.6	26.8		05/17/18 01:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	21.6	26.8		05/17/18 01:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	21.6	26.8		05/17/18 01:08	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.2	26.8		05/17/18 01:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	24.7	26.8		05/17/18 01:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	24.7	26.8		05/17/18 01:08	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	98.1	26.8		05/17/18 01:08	123-91-1	
Ethylbenzene	**471**	ug/m3	23.7	26.8		05/17/18 01:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	58.2	26.8		05/17/18 01:08	87-68-3	
2-Hexanone	ND	ug/m3	111	26.8		05/17/18 01:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	67.0	26.8		05/17/18 01:08	98-82-8	
Methylene Chloride	ND	ug/m3	94.6	26.8		05/17/18 01:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	111	26.8		05/17/18 01:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	98.1	26.8		05/17/18 01:08	1634-04-4	
Naphthalene	ND	ug/m3	71.3	26.8		05/17/18 01:08	91-20-3	
Styrene	ND	ug/m3	23.2	26.8		05/17/18 01:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	18.7	26.8		05/17/18 01:08	79-34-5	
Tetrachloroethene	ND	ug/m3	18.5	26.8		05/17/18 01:08	127-18-4	
Toluene	**39800**	ug/m3	2630	3430		05/17/18 19:21	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	101	26.8		05/17/18 01:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	29.7	26.8		05/17/18 01:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14.9	26.8		05/17/18 01:08	79-00-5	
Trichloroethene	ND	ug/m3	14.6	26.8		05/17/18 01:08	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.6	26.8		05/17/18 01:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	41.8	26.8		05/17/18 01:08	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	26.8	26.8		05/17/18 01:08	526-73-8	N2

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ANALYTICAL RESULTS

Project: Air
Pace Project No.: 10430819

Sample: Cell 1 15-25 **Lab ID: 10430819004** Collected: 05/02/18 11:30 Received: 05/11/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**26.8**	ug/m3	26.8	26.8		05/17/18 01:08	95-63-6	
1,3,5-Trimethylbenzene	**62.2**	ug/m3	26.8	26.8		05/17/18 01:08	108-67-8	
Vinyl chloride	ND	ug/m3	7.0	26.8		05/17/18 01:08	75-01-4	
Xylene (Total)	**2230**	ug/m3	71.0	26.8		05/17/18 01:08	1330-20-7	

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QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10430819

QC Batch: 538610 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10430819001, 10430819002, 10430819003, 10430819004

METHOD BLANK: 2928457 Matrix: Air
Associated Lab Samples: 10430819001, 10430819002, 10430819003, 10430819004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	05/16/18 09:14	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	05/16/18 09:14	
1,1,2-Trichloroethane	ug/m3	ND	0.56	05/16/18 09:14	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	05/16/18 09:14	
1,1-Dichloroethane	ug/m3	ND	0.82	05/16/18 09:14	
1,1-Dichloroethene	ug/m3	ND	0.81	05/16/18 09:14	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	05/16/18 09:14	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	05/16/18 09:14	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	05/16/18 09:14	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	05/16/18 09:14	
1,2-Dichlorobenzene	ug/m3	ND	1.2	05/16/18 09:14	
1,2-Dichloroethane	ug/m3	ND	0.41	05/16/18 09:14	
1,2-Dichloropropane	ug/m3	ND	0.94	05/16/18 09:14	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	05/16/18 09:14	
1,3-Dichlorobenzene	ug/m3	ND	1.2	05/16/18 09:14	
1,4-Dichlorobenzene	ug/m3	ND	1.2	05/16/18 09:14	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	05/16/18 09:14	
2-Butanone (MEK)	ug/m3	ND	3.0	05/16/18 09:14	
2-Hexanone	ug/m3	ND	4.2	05/16/18 09:14	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	05/16/18 09:14	
Acetone	ug/m3	ND	2.4	05/16/18 09:14	
Benzene	ug/m3	ND	0.32	05/16/18 09:14	
Bromodichloromethane	ug/m3	ND	1.4	05/16/18 09:14	
Bromoform	ug/m3	ND	5.3	05/16/18 09:14	MN
Bromomethane	ug/m3	ND	0.79	05/16/18 09:14	
Carbon disulfide	ug/m3	ND	0.63	05/16/18 09:14	
Carbon tetrachloride	ug/m3	ND	0.64	05/16/18 09:14	
Chlorobenzene	ug/m3	ND	0.94	05/16/18 09:14	
Chloroethane	ug/m3	ND	0.54	05/16/18 09:14	
Chloroform	ug/m3	ND	0.50	05/16/18 09:14	
Chloromethane	ug/m3	ND	0.42	05/16/18 09:14	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	05/16/18 09:14	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	05/16/18 09:14	
Cyclohexane	ug/m3	ND	0.70	05/16/18 09:14	
Dibromochloromethane	ug/m3	ND	1.7	05/16/18 09:14	
Dichlorodifluoromethane	ug/m3	ND	1.0	05/16/18 09:14	
Ethylbenzene	ug/m3	ND	0.88	05/16/18 09:14	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	05/16/18 09:14	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	05/16/18 09:14	
Methyl-tert-butyl ether	ug/m3	ND	3.7	05/16/18 09:14	
Methylene Chloride	ug/m3	ND	3.5	05/16/18 09:14	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10430819

METHOD BLANK: 2928457 Matrix: Air
Associated Lab Samples: 10430819001, 10430819002, 10430819003, 10430819004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	05/16/18 09:14	
Styrene	ug/m3	ND	0.87	05/16/18 09:14	
Tetrachloroethene	ug/m3	ND	0.69	05/16/18 09:14	
Toluene	ug/m3	ND	0.77	05/16/18 09:14	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	05/16/18 09:14	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	05/16/18 09:14	
Trichloroethene	ug/m3	ND	0.55	05/16/18 09:14	
Trichlorofluoromethane	ug/m3	ND	1.1	05/16/18 09:14	
Vinyl chloride	ug/m3	ND	0.26	05/16/18 09:14	
Xylene (Total)	ug/m3	ND	2.6	05/16/18 09:14	

LABORATORY CONTROL SAMPLE: 2928458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	65.3	118	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	88.7	127	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	65.5	118	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	84.4	108	63-139	
1,1-Dichloroethane	ug/m3	41.1	46.6	113	70-134	
1,1-Dichloroethene	ug/m3	40.3	43.9	109	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	64.7	130	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	94.8	126	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	64.4	129	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	95.2	122	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	80.9	132	70-137	CH
1,2-Dichloroethane	ug/m3	41.1	47.0	114	70-136	
1,2-Dichloropropane	ug/m3	47	55.9	119	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	62.4	125	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	82.1	134	70-137	CH
1,4-Dichlorobenzene	ug/m3	61.1	85.1	139	70-134	CH,L1
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	114	125	70-145	
2-Butanone (MEK)	ug/m3	30	33.0	110	65-143	
2-Hexanone	ug/m3	41.6	55.0	132	60-148	CH
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	48.6	117	70-135	
Acetone	ug/m3	121	120	100	59-132	
Benzene	ug/m3	32.5	35.9	110	70-134	
Bromodichloromethane	ug/m3	68.1	88.3	130	70-142	
Bromoform	ug/m3	105	117	111	69-150	
Bromomethane	ug/m3	39.5	40.0	101	61-141	
Carbon disulfide	ug/m3	31.6	42.1	133	66-134	CH
Carbon tetrachloride	ug/m3	64	67.1	105	60-145	
Chlorobenzene	ug/m3	46.8	53.2	114	70-130	
Chloroethane	ug/m3	26.8	28.7	107	65-143	
Chloroform	ug/m3	49.6	55.6	112	70-132	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10430819

LABORATORY CONTROL SAMPLE: 2928458

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	20.5	98	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	46.1	114	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	59.8	130	70-136	
Cyclohexane	ug/m3	35	39.1	112	70-133	
Dibromochloromethane	ug/m3	86.6	121	140	68-149	CH
Dichlorodifluoromethane	ug/m3	50.3	54.0	108	69-130	
Ethylbenzene	ug/m3	44.1	50.7	115	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	136	125	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	60.4	121	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	41.2	113	70-132	
Methylene Chloride	ug/m3	177	187	106	67-132	
Naphthalene	ug/m3	53.3	66.5	125	55-136	
Styrene	ug/m3	43.3	54.6	126	70-139	
Tetrachloroethene	ug/m3	68.9	77.7	113	70-133	
Toluene	ug/m3	38.3	39.1	102	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.9	112	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	63.0	137	70-135	CH,L3
Trichloroethene	ug/m3	54.6	61.7	113	70-135	
Trichlorofluoromethane	ug/m3	57.1	59.3	104	59-140	
Vinyl chloride	ug/m3	26	27.9	108	70-141	
Xylene (Total)	ug/m3	132	147	111	70-138	

SAMPLE DUPLICATE: 2930886

Parameter	Units	60270232001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	69.2	69.6	1	25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10430819

SAMPLE DUPLICATE: 2930886

Parameter	Units	60270232001 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	95.8	97.0	1	25	
Benzene	ug/m3	14.9	14.5	3	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	106	103	3	25	CH
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	31700	30700	3	25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	232	227	2	25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	61.9J		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	23.2J		25	
Toluene	ug/m3	ND	9.7J		25	
trans-1,2-Dichloroethene	ug/m3	253	239	6	25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	127000	121000	5	25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	10800	9750	10	25	A3
Xylene (Total)	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 2930897

Parameter	Units	10431092001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	28J		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	180	162	11	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	

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1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: Air
Pace Project No.: 10430819

SAMPLE DUPLICATE: 2930897

Parameter	Units	10431092001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	88.6J		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	81.2J		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	353	345	2	25	
Benzene	ug/m3	5290	5030	5	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	1110	1020	8	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	43.9J		25	
Methyl-tert-butyl ether	ug/m3	789	752	5	25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	1620	1520	6	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	3840	3570	7	25	

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Air
Pace Project No.: 10430819

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 2930897

[1]	This result is reported from a serial dilution.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Air
Pace Project No.: 10430819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10430819001	**Cell 2 AST**	TO-15	538610		
10430819002	**Cell 1 1-14**	TO-15	538610		
10430819003	**Cell 3**	TO-15	538610		
10430819004	**Cell 1 15-25**	TO-15	538610		

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO# : 10430819

10430819

33401

Page: of

Section A Required Client Information:

Company: EAG
Address: 1600 Sparrows Point Blvd
Email To: JCalenda@enviroanalytics.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Calenda
Copy To: Josh Burke
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1650 Des Peres Rd, Suite 303 St. Louis MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other X

Location of Sampling by State: MD

Reporting Units: ug/m³ X, mg/m³ ___, PPBV X, PPMV ___, Other ___

Report Level: II.___ III.___ IV.___ Other ___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes:

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 2 AST	6LC				5/2/18	0858	-28	-5	68						X					001
2	Cell 1 1-14	6LC				5/2/18	0915	-28	-0	29 49						X					002
3	Cell 3	6LC				5/2/18	0820	-29	-5	6						X					003
4	Cell 1 15-25	6LC				5/2/18	1130	-29	+1	618						X					004
5	~~Cell 5 AST~~	6LC				5/7/18	0830	-28	-3	160						X					~~005~~
6	~~Cell 5 INF~~	6LC				5/7/18	0920	-27	-21	1068						X					~~006~~
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

Did not ~~receive~~ receive return labels

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Dan Walsh	5-3-18	0959	[illegible]	5-11-18	1000

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

SAMPLE CONDITIONS				
Temp in °C	Y/N	Y/N	Y/N	Y/N
Received on Ice	Y/N	Y/N	Y/N	Y/N
Custody Sealed Cooler	Y/N	Y/N	Y/N	Y/N
Samples Intact	Y/N	Y/N	Y/N	Y/N

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 02May2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.15	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO#: 10430819

PM: NB3 Due Date: 05/18/18

CLIENT: EnviroAnalyt

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 8106 5162 1347

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 5-11-18 AA

Type of ice Received ☐ Blue ☐ Wet ☑ None

			Comments:
Chain of Custody Present?	☑ Yes	☐ No	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	3.
Sampler Name and/or Signature on COC?	☐ Yes	☑ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	7.
Sufficient Volume?	☑ Yes	☐ No	8.
Correct Containers Used?	☑ Yes	☐ No	9.
-Pace Containers Used?	☑ Yes	☐ No	
Containers Intact?	☑ Yes	☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes	☐ No	12.

Samples Received: Stand alone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 2 AST			-3	+5					
Cell 1 1-14			0	"					
Cell 3			-5	"					
Cell 1 15-25			0	"					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Roberg **Date:** 5/11/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Lab Sample No: 10430819001
Client Sample ID: Cell 2 AST

ProjSampleNum: 10430819001
Matrix: Air

Date Collected: 05/02/18 8:58
Date Received: 05/11/18 10:00

Air

TO-15

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed		CAS No.
1,1,1-Trichloroethane	33.1	ND	6	ND	29.8	05/17/18 0:34	MG2	71-55-6
1,1,2,2-Tetrachloroethane	20.8	ND	3	ND	29.8	05/17/18 0:34	MG2	79-34-5
1,1,2-Trichloroethane	16.5	ND	3	ND	29.8	05/17/18 0:34	MG2	79-00-5
1,1,2-Trichlorotrifluoroethane	46.5	ND	6	ND	29.8	05/17/18 0:34	MG2	76-13-1
1,1-Dichloroethane	24.5	ND	6	ND	29.8	05/17/18 0:34	MG2	75-34-3
1,1-Dichloroethene	24	ND	6	ND	29.8	05/17/18 0:34	MG2	75-35-4
1,2,3-Trimethylbenzene	29.8	ND	6	ND	29.8	05/17/18 0:34	MG2	526-73-8
1,2,4-Trichlorobenzene	112	ND	14.8	ND	29.8	05/17/18 0:34	MG2	120-82-1
1,2,4-Trimethylbenzene	29.8	107	6	21.4	29.8	05/17/18 0:34	MG2	95-63-6
1,2-Dibromoethane (EDB)	46.5	ND	6	ND	29.8	05/17/18 0:34	MG2	106-93-4
1,2-Dichlorobenzene	36.4	ND	6	ND	29.8	05/17/18 0:34	MG2	95-50-1
1,2-Dichloroethane	12.2	ND	3	ND	29.8	05/17/18 0:34	MG2	107-06-2
1,2-Dichloropropane	28	ND	6	ND	29.8	05/17/18 0:34	MG2	78-87-5
1,3,5-Trimethylbenzene	29.8	43.1	6	8.6	29.8	05/17/18 0:34	MG2	108-67-8
1,3-Dichlorobenzene	36.4	ND	6	ND	29.8	05/17/18 0:34	MG2	541-73-1
1,4-Dichlorobenzene	36.4	ND	6	ND	29.8	05/17/18 0:34	MG2	106-46-7
1,4-Dioxane (p-Dioxane)	109	ND	29.8	ND	29.8	05/17/18 0:34	MG2	123-91-1
2-Butanone (MEK)	89.4	ND	29.8	ND	29.8	05/17/18 0:34	MG2	78-93-3
2-Hexanone	124	ND	29.8	ND	29.8	05/17/18 0:34	MG2	591-78-6
4-Methyl-2-pentanone (MIBK)	124	ND	29.8	ND	29.8	05/17/18 0:34	MG2	108-10-1
Acetone	71.8	ND	29.7	ND	29.8	05/17/18 0:34	MG2	67-64-1
Benzene	620	21600	191	6650	1907	05/17/18 18:12	MG2	71-43-2
Bromodichloromethane	40.5	ND	5.9	ND	29.8	05/17/18 0:34	MG2	75-27-4
Bromoform	157	ND	14.9	ND	29.8	05/17/18 0:34	MG2	75-25-2
Bromomethane	23.5	ND	6	ND	29.8	05/17/18 0:34	MG2	74-83-9
Carbon disulfide	18.9	ND	6	ND	29.8	05/17/18 0:34	MG2	75-15-0
Carbon tetrachloride	19	ND	3	ND	29.8	05/17/18 0:34	MG2	56-23-5
Chlorobenzene	27.9	ND	6	ND	29.8	05/17/18 0:34	MG2	108-90-7
Chloroethane	16	ND	6	ND	29.8	05/17/18 0:34	MG2	75-00-3
Chloroform	14.8	ND	3	ND	29.8	05/17/18 0:34	MG2	67-66-3
Chloromethane	12.5	ND	6	ND	29.8	05/17/18 0:34	MG2	74-87-3
cis-1,2-Dichloroethene	24	ND	6	ND	29.8	05/17/18 0:34	MG2	156-59-2
cis-1,3-Dichloropropene	27.5	ND	6	ND	29.8	05/17/18 0:34	MG2	10061-01-5
Cyclohexane	20.9	ND	6	ND	29.8	05/17/18 0:34	MG2	110-82-7
Dibromochloromethane	51.6	ND	6	ND	29.8	05/17/18 0:34	MG2	124-48-1
Dichlorodifluoromethane	30.1	ND	6	ND	29.8	05/17/18 0:34	MG2	75-71-8
Ethylbenzene	26.3	109	6	24.7	29.8	05/17/18 0:34	MG2	100-41-4
Hexachloro-1,3-butadiene	64.7	ND	6	ND	29.8	05/17/18 0:34	MG2	87-68-3
Isopropylbenzene (Cumene)	74.5	ND	14.9	ND	29.8	05/17/18 0:34	MG2	98-82-8
Methylene Chloride	105	ND	29.7	ND	29.8	05/17/18 0:34	MG2	75-09-2
Methyl-tert-butyl ether	109	ND	29.7	ND	29.8	05/17/18 0:34	MG2	1634-04-4

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Naphthalene	79.3	2250	14.9	422	29.8	05/17/18 0:34	MG2	91-20-3
Styrene	25.8	ND	6	ND	29.8	05/17/18 0:34	MG2	100-42-5
Tetrachloroethene	20.5	ND	3	ND	29.8	05/17/18 0:34	MG2	127-18-4
Toluene	22.8	2540	6	663	29.8	05/17/18 0:34	MG2	108-88-3
trans-1,2-Dichloroethene	24	ND	6	ND	29.8	05/17/18 0:34	MG2	156-60-5
trans-1,3-Dichloropropene	27.5	ND	6	ND	29.8	05/17/18 0:34	MG2	10061-02-6
Trichloroethene	16.3	ND	3	ND	29.8	05/17/18 0:34	MG2	79-01-6
Trichlorofluoromethane	34	ND	6	ND	29.8	05/17/18 0:34	MG2	75-69-4
Vinyl chloride	7.7	ND	3	ND	29.8	05/17/18 0:34	MG2	75-01-4
Xylene (Total)	79	1440	17.9	326	29.8	05/17/18 0:34	MG2	1330-20-7

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Lab Sample No: 10430819002
Client Sample ID: Cell 1 1-14

ProjSampleNum: 10430819002
Matrix: Air

Date Collected: 05/02/18 9:15
Date Received: 05/11/18 10:00

Air

TO-15

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed		CAS No.
1,1,1-Trichloroethane	29.7	ND	5.4	ND	26.8	05/16/18 23:25	MG2	71-55-6
1,1,2,2-Tetrachloroethane	18.7	ND	2.7	ND	26.8	05/16/18 23:25	MG2	79-34-5
1,1,2-Trichloroethane	14.9	ND	2.7	ND	26.8	05/16/18 23:25	MG2	79-00-5
1,1,2-Trichlorotrifluoroethane	41.8	ND	5.4	ND	26.8	05/16/18 23:25	MG2	76-13-1
1,1-Dichloroethane	22.1	ND	5.4	ND	26.8	05/16/18 23:25	MG2	75-34-3
1,1-Dichloroethene	21.6	ND	5.4	ND	26.8	05/16/18 23:25	MG2	75-35-4
1,2,3-Trimethylbenzene	26.8	ND	5.4	ND	26.8	05/16/18 23:25	MG2	526-73-8
1,2,4-Trichlorobenzene	101	ND	13.4	ND	26.8	05/16/18 23:25	MG2	120-82-1
1,2,4-Trimethylbenzene	26.8	ND	5.4	ND	26.8	05/16/18 23:25	MG2	95-63-6
1,2-Dibromoethane (EDB)	41.8	ND	5.4	ND	26.8	05/16/18 23:25	MG2	106-93-4
1,2-Dichlorobenzene	32.7	ND	5.4	ND	26.8	05/16/18 23:25	MG2	95-50-1
1,2-Dichloroethane	11	ND	2.7	ND	26.8	05/16/18 23:25	MG2	107-06-2
1,2-Dichloropropane	25.2	ND	5.4	ND	26.8	05/16/18 23:25	MG2	78-87-5
1,3,5-Trimethylbenzene	26.8	ND	5.4	ND	26.8	05/16/18 23:25	MG2	108-67-8
1,3-Dichlorobenzene	32.7	ND	5.4	ND	26.8	05/16/18 23:25	MG2	541-73-1
1,4-Dichlorobenzene	32.7	ND	5.4	ND	26.8	05/16/18 23:25	MG2	106-46-7
1,4-Dioxane (p-Dioxane)	98.1	ND	26.8	ND	26.8	05/16/18 23:25	MG2	123-91-1
2-Butanone (MEK)	80.4	ND	26.8	ND	26.8	05/16/18 23:25	MG2	78-93-3
2-Hexanone	111	ND	26.7	ND	26.8	05/16/18 23:25	MG2	591-78-6
4-Methyl-2-pentanone (MIBK)	111	ND	26.7	ND	26.8	05/16/18 23:25	MG2	108-10-1
Acetone	64.6	ND	26.8	ND	26.8	05/16/18 23:25	MG2	67-64-1
Benzene	1110	43000	342	13200	3430	05/17/18 18:47	MG2	71-43-2
Bromodichloromethane	36.4	ND	5.3	ND	26.8	05/16/18 23:25	MG2	75-27-4
Bromoform	141	ND	13.4	ND	26.8	05/16/18 23:25	MG2	75-25-2
Bromomethane	21.1	ND	5.3	ND	26.8	05/16/18 23:25	MG2	74-83-9
Carbon disulfide	17	ND	5.4	ND	26.8	05/16/18 23:25	MG2	75-15-0
Carbon tetrachloride	17.1	ND	2.7	ND	26.8	05/16/18 23:25	MG2	56-23-5
Chlorobenzene	25.1	ND	5.4	ND	26.8	05/16/18 23:25	MG2	108-90-7
Chloroethane	14.4	ND	5.4	ND	26.8	05/16/18 23:25	MG2	75-00-3
Chloroform	13.3	ND	2.7	ND	26.8	05/16/18 23:25	MG2	67-66-3
Chloromethane	11.3	ND	5.4	ND	26.8	05/16/18 23:25	MG2	74-87-3
cis-1,2-Dichloroethene	21.6	ND	5.4	ND	26.8	05/16/18 23:25	MG2	156-59-2
cis-1,3-Dichloropropene	24.7	ND	5.4	ND	26.8	05/16/18 23:25	MG2	10061-01-5
Cyclohexane	18.8	47.1	5.4	13.5	26.8	05/16/18 23:25	MG2	110-82-7
Dibromochloromethane	46.4	ND	5.4	ND	26.8	05/16/18 23:25	MG2	124-48-1
Dichlorodifluoromethane	27.1	ND	5.4	ND	26.8	05/16/18 23:25	MG2	75-71-8
Ethylbenzene	23.7	ND	5.4	ND	26.8	05/16/18 23:25	MG2	100-41-4
Hexachloro-1,3-butadiene	58.2	ND	5.4	ND	26.8	05/16/18 23:25	MG2	87-68-3
Isopropylbenzene (Cumene)	67	ND	13.4	ND	26.8	05/16/18 23:25	MG2	98-82-8
Methylene Chloride	94.6	ND	26.8	ND	26.8	05/16/18 23:25	MG2	75-09-2
Methyl-tert-butyl ether	98.1	ND	26.8	ND	26.8	05/16/18 23:25	MG2	1634-04-4

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Naphthalene	71.3	ND	13.4	ND	26.8	05/16/18 23:25	MG2	91-20-3
Styrene	23.2	ND	5.4	ND	26.8	05/16/18 23:25	MG2	100-42-5
Tetrachloroethene	18.5	ND	2.7	ND	26.8	05/16/18 23:25	MG2	127-18-4
Toluene	20.5	736	5.4	192	26.8	05/16/18 23:25	MG2	108-88-3
trans-1,2-Dichloroethene	21.6	ND	5.4	ND	26.8	05/16/18 23:25	MG2	156-60-5
trans-1,3-Dichloropropene	24.7	ND	5.4	ND	26.8	05/16/18 23:25	MG2	10061-02-6
Trichloroethene	14.6	ND	2.7	ND	26.8	05/16/18 23:25	MG2	79-01-6
Trichlorofluoromethane	30.6	ND	5.4	ND	26.8	05/16/18 23:25	MG2	75-69-4
Vinyl chloride	7	ND	2.7	ND	26.8	05/16/18 23:25	MG2	75-01-4
Xylene (Total)	71	216	16.1	48.9	26.8	05/16/18 23:25	MG2	1330-20-7

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Lab Sample No: 10430819003
Client Sample ID: Cell 3

ProjSampleNum: 10430819003
Matrix: Air

Date Collected: 05/02/18 8:20
Date Received: 05/11/18 10:00

Air

TO-15

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed		CAS No.
1,1,1-Trichloroethane	35.7	ND	6.4	ND	32.2	05/16/18 23:59	MG2	71-55-6
1,1,2,2-Tetrachloroethane	22.5	ND	3.2	ND	32.2	05/16/18 23:59	MG2	79-34-5
1,1,2-Trichloroethane	17.9	ND	3.2	ND	32.2	05/16/18 23:59	MG2	79-00-5
1,1,2-Trichlorotrifluoroethane	50.2	ND	6.4	ND	32.2	05/16/18 23:59	MG2	76-13-1
1,1-Dichloroethane	26.5	ND	6.4	ND	32.2	05/16/18 23:59	MG2	75-34-3
1,1-Dichloroethene	26	ND	6.5	ND	32.2	05/16/18 23:59	MG2	75-35-4
1,2,3-Trimethylbenzene	32.2	ND	6.4	ND	32.2	05/16/18 23:59	MG2	526-73-8
1,2,4-Trichlorobenzene	121	ND	16	ND	32.2	05/16/18 23:59	MG2	120-82-1
1,2,4-Trimethylbenzene	32.2	ND	6.4	ND	32.2	05/16/18 23:59	MG2	95-63-6
1,2-Dibromoethane (EDB)	50.2	ND	6.4	ND	32.2	05/16/18 23:59	MG2	106-93-4
1,2-Dichlorobenzene	39.3	ND	6.4	ND	32.2	05/16/18 23:59	MG2	95-50-1
1,2-Dichloroethane	13.2	ND	3.2	ND	32.2	05/16/18 23:59	MG2	107-06-2
1,2-Dichloropropane	30.2	ND	6.4	ND	32.2	05/16/18 23:59	MG2	78-87-5
1,3,5-Trimethylbenzene	32.2	ND	6.4	ND	32.2	05/16/18 23:59	MG2	108-67-8
1,3-Dichlorobenzene	39.3	ND	6.4	ND	32.2	05/16/18 23:59	MG2	541-73-1
1,4-Dichlorobenzene	39.3	ND	6.4	ND	32.2	05/16/18 23:59	MG2	106-46-7
1,4-Dioxane (p-Dioxane)	118	ND	32.2	ND	32.2	05/16/18 23:59	MG2	123-91-1
2-Butanone (MEK)	96.6	ND	32.2	ND	32.2	05/16/18 23:59	MG2	78-93-3
2-Hexanone	134	ND	32.2	ND	32.2	05/16/18 23:59	MG2	591-78-6
4-Methyl-2-pentanone (MIBK)	134	ND	32.2	ND	32.2	05/16/18 23:59	MG2	108-10-1
Acetone	77.6	ND	32.1	ND	32.2	05/16/18 23:59	MG2	67-64-1
Benzene	335	10800	103	3330	1030	05/17/18 17:38	MG2	71-43-2
Bromodichloromethane	43.8	ND	6.4	ND	32.2	05/16/18 23:59	MG2	75-27-4
Bromoform	169	ND	16.1	ND	32.2	05/16/18 23:59	MG2	75-25-2
Bromomethane	25.4	ND	6.4	ND	32.2	05/16/18 23:59	MG2	74-83-9
Carbon disulfide	20.4	ND	6.4	ND	32.2	05/16/18 23:59	MG2	75-15-0
Carbon tetrachloride	20.6	ND	3.2	ND	32.2	05/16/18 23:59	MG2	56-23-5
Chlorobenzene	30.1	ND	6.4	ND	32.2	05/16/18 23:59	MG2	108-90-7
Chloroethane	17.3	ND	6.4	ND	32.2	05/16/18 23:59	MG2	75-00-3
Chloroform	16	ND	3.2	ND	32.2	05/16/18 23:59	MG2	67-66-3
Chloromethane	13.5	ND	6.4	ND	32.2	05/16/18 23:59	MG2	74-87-3
cis-1,2-Dichloroethene	26	ND	6.5	ND	32.2	05/16/18 23:59	MG2	156-59-2
cis-1,3-Dichloropropene	29.7	ND	6.4	ND	32.2	05/16/18 23:59	MG2	10061-01-5
Cyclohexane	22.5	ND	6.4	ND	32.2	05/16/18 23:59	MG2	110-82-7
Dibromochloromethane	55.7	ND	6.4	ND	32.2	05/16/18 23:59	MG2	124-48-1
Dichlorodifluoromethane	32.5	ND	6.5	ND	32.2	05/16/18 23:59	MG2	75-71-8
Ethylbenzene	28.4	ND	6.4	ND	32.2	05/16/18 23:59	MG2	100-41-4
Hexachloro-1,3-butadiene	69.9	ND	6.4	ND	32.2	05/16/18 23:59	MG2	87-68-3
Isopropylbenzene (Cumene)	80.5	ND	16.1	ND	32.2	05/16/18 23:59	MG2	98-82-8
Methylene Chloride	114	ND	32.3	ND	32.2	05/16/18 23:59	MG2	75-09-2
Methyl-tert-butyl ether	118	ND	32.2	ND	32.2	05/16/18 23:59	MG2	1634-04-4

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Naphthalene	85.7	ND	16.1	ND	32.2	05/16/18 23:59	MG2	91-20-3
Styrene	27.9	ND	6.4	ND	32.2	05/16/18 23:59	MG2	100-42-5
Tetrachloroethene	22.2	ND	3.2	ND	32.2	05/16/18 23:59	MG2	127-18-4
Toluene	24.7	718	6.4	187	32.2	05/16/18 23:59	MG2	108-88-3
trans-1,2-Dichloroethene	26	ND	6.5	ND	32.2	05/16/18 23:59	MG2	156-60-5
trans-1,3-Dichloropropene	29.7	ND	6.4	ND	32.2	05/16/18 23:59	MG2	10061-02-6
Trichloroethene	17.6	ND	3.2	ND	32.2	05/16/18 23:59	MG2	79-01-6
Trichlorofluoromethane	36.7	ND	6.4	ND	32.2	05/16/18 23:59	MG2	75-69-4
Vinyl chloride	8.4	ND	3.2	ND	32.2	05/16/18 23:59	MG2	75-01-4
Xylene (Total)	85.3	146	19.3	33.1	32.2	05/16/18 23:59	MG2	1330-20-7

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Lab Sample No: 10430819004
Client Sample ID: Cell 1 15-25

ProjSampleNum: 10430819004
Matrix: Air

Date Collected: 05/02/18 11:30
Date Received: 05/11/18 10:00

Air

TO-15

Parameters	Report Limit ug/m3	Results ug/m3	Report Limit ppbv	Results ppbv	DF	Analyzed		CAS No.
1,1,1-Trichloroethane	29.7	ND	5.4	ND	26.8	05/17/18 1:08	MG2	71-55-6
1,1,2,2-Tetrachloroethane	18.7	ND	2.7	ND	26.8	05/17/18 1:08	MG2	79-34-5
1,1,2-Trichloroethane	14.9	ND	2.7	ND	26.8	05/17/18 1:08	MG2	79-00-5
1,1,2-Trichlorotrifluoroethane	41.8	ND	5.4	ND	26.8	05/17/18 1:08	MG2	76-13-1
1,1-Dichloroethane	22.1	ND	5.4	ND	26.8	05/17/18 1:08	MG2	75-34-3
1,1-Dichloroethene	21.6	ND	5.4	ND	26.8	05/17/18 1:08	MG2	75-35-4
1,2,3-Trimethylbenzene	26.8	ND	5.4	ND	26.8	05/17/18 1:08	MG2	526-73-8
1,2,4-Trichlorobenzene	101	ND	13.4	ND	26.8	05/17/18 1:08	MG2	120-82-1
1,2,4-Trimethylbenzene	26.8	26.8	5.4	5.4	26.8	05/17/18 1:08	MG2	95-63-6
1,2-Dibromoethane (EDB)	41.8	ND	5.4	ND	26.8	05/17/18 1:08	MG2	106-93-4
1,2-Dichlorobenzene	32.7	ND	5.4	ND	26.8	05/17/18 1:08	MG2	95-50-1
1,2-Dichloroethane	11	ND	2.7	ND	26.8	05/17/18 1:08	MG2	107-06-2
1,2-Dichloropropane	25.2	ND	5.4	ND	26.8	05/17/18 1:08	MG2	78-87-5
1,3,5-Trimethylbenzene	26.8	62.2	5.4	12.4	26.8	05/17/18 1:08	MG2	108-67-8
1,3-Dichlorobenzene	32.7	ND	5.4	ND	26.8	05/17/18 1:08	MG2	541-73-1
1,4-Dichlorobenzene	32.7	ND	5.4	ND	26.8	05/17/18 1:08	MG2	106-46-7
1,4-Dioxane (p-Dioxane)	98.1	ND	26.8	ND	26.8	05/17/18 1:08	MG2	123-91-1
2-Butanone (MEK)	80.4	ND	26.8	ND	26.8	05/17/18 1:08	MG2	78-93-3
2-Hexanone	111	ND	26.7	ND	26.8	05/17/18 1:08	MG2	591-78-6
4-Methyl-2-pentanone (MIBK)	111	ND	26.7	ND	26.8	05/17/18 1:08	MG2	108-10-1
Acetone	64.6	ND	26.8	ND	26.8	05/17/18 1:08	MG2	67-64-1
Benzene	1110	210000	342	64700	3430	05/17/18 19:21	MG2	71-43-2
Bromodichloromethane	36.4	ND	5.3	ND	26.8	05/17/18 1:08	MG2	75-27-4
Bromoform	141	ND	13.4	ND	26.8	05/17/18 1:08	MG2	75-25-2
Bromomethane	21.1	ND	5.3	ND	26.8	05/17/18 1:08	MG2	74-83-9
Carbon disulfide	17	ND	5.4	ND	26.8	05/17/18 1:08	MG2	75-15-0
Carbon tetrachloride	17.1	ND	2.7	ND	26.8	05/17/18 1:08	MG2	56-23-5
Chlorobenzene	25.1	ND	5.4	ND	26.8	05/17/18 1:08	MG2	108-90-7
Chloroethane	14.4	ND	5.4	ND	26.8	05/17/18 1:08	MG2	75-00-3
Chloroform	13.3	ND	2.7	ND	26.8	05/17/18 1:08	MG2	67-66-3
Chloromethane	11.3	ND	5.4	ND	26.8	05/17/18 1:08	MG2	74-87-3
cis-1,2-Dichloroethene	21.6	ND	5.4	ND	26.8	05/17/18 1:08	MG2	156-59-2
cis-1,3-Dichloropropene	24.7	ND	5.4	ND	26.8	05/17/18 1:08	MG2	10061-01-5
Cyclohexane	18.8	161	5.4	46	26.8	05/17/18 1:08	MG2	110-82-7
Dibromochloromethane	46.4	ND	5.4	ND	26.8	05/17/18 1:08	MG2	124-48-1
Dichlorodifluoromethane	27.1	ND	5.4	ND	26.8	05/17/18 1:08	MG2	75-71-8
Ethylbenzene	23.7	471	5.4	107	26.8	05/17/18 1:08	MG2	100-41-4
Hexachloro-1,3-butadiene	58.2	ND	5.4	ND	26.8	05/17/18 1:08	MG2	87-68-3
Isopropylbenzene (Cumene)	67	ND	13.4	ND	26.8	05/17/18 1:08	MG2	98-82-8
Methylene Chloride	94.6	ND	26.8	ND	26.8	05/17/18 1:08	MG2	75-09-2
Methyl-tert-butyl ether	98.1	ND	26.8	ND	26.8	05/17/18 1:08	MG2	1634-04-4

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: Enviro Analytics Group
Phone: 410-290-7775 x2004

Lab Project Number: 10430819
Project Name: Air

Naphthalene	71.3	ND	13.4	ND	26.8	05/17/18 1:08	MG2	91-20-3
Styrene	23.2	ND	5.4	ND	26.8	05/17/18 1:08	MG2	100-42-5
Tetrachloroethene	18.5	ND	2.7	ND	26.8	05/17/18 1:08	MG2	127-18-4
Toluene	2630	39800	687	10400	3430	05/17/18 19:21	MG2	108-88-3
trans-1,2-Dichloroethene	21.6	ND	5.4	ND	26.8	05/17/18 1:08	MG2	156-60-5
trans-1,3-Dichloropropene	24.7	ND	5.4	ND	26.8	05/17/18 1:08	MG2	10061-02-6
Trichloroethene	14.6	ND	2.7	ND	26.8	05/17/18 1:08	MG2	79-01-6
Trichlorofluoromethane	30.6	ND	5.4	ND	26.8	05/17/18 1:08	MG2	75-69-4
Vinyl chloride	7	ND	2.7	ND	26.8	05/17/18 1:08	MG2	75-01-4
Xylene (Total)	71	2230	16.1	505	26.8	05/17/18 1:08	MG2	1330-20-7

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

June 22, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: TO15
Pace Project No.: 10434623

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)607-6407
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: TO15
Pace Project No.: 10434623

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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(612)607-1700

SAMPLE SUMMARY

Project: TO15
Pace Project No.: 10434623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10434623001	**Cell 1**	Air	06/04/18 09:15	06/08/18 09:30
10434623002	**Cell 3**	Air	06/04/18 09:00	06/08/18 09:30
10434623003	**Cell 6**	Air	06/05/18 13:30	06/08/18 09:30
10434623004	**Cell 5 AST**	Air	06/05/18 14:00	06/08/18 09:30
10434623005	**Cell 5 Inf**	Air	06/05/18 14:30	06/08/18 09:30
10434623006	**Unused Can #0194**	Air		06/08/18 09:30
10434623007	**Unused Can #0105**	Air		06/08/18 09:30
10434623008	**Unused Can #0528**	Air		06/08/18 09:30

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SAMPLE ANALYTE COUNT

Project: TO15
Pace Project No.: 10434623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10434623001	**Cell 1**	TO-15	MJL	51
10434623002	**Cell 3**	TO-15	MJL	51
10434623003	**Cell 6**	TO-15	MJL	51
10434623004	**Cell 5 AST**	TO-15	MJL	51
10434623005	**Cell 5 Inf**	TO-15	MJL	51

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10434623

Date: June 22, 2018

Cell 6 (Lab ID: 10434623003)

- A3: This result is reported from a serial dilution.

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10434623

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: June 22, 2018

General Information:
5 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

QC Batch: 544014

IS: The internal standard response is below criteria. Results may be biased high.

- Cell 5 AST (Lab ID: 10434623004)
  - 1,2,3-Trimethylbenzene
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Ethylbenzene
  - Naphthalene
  - Styrene
  - Toluene
- Cell 5 Inf (Lab ID: 10434623005)
  - 1,2,4-Trimethylbenzene
  - Cyclohexane
  - Ethylbenzene
  - Methylene Chloride
  - Styrene
  - Toluene

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10434623

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: June 22, 2018

Analyte Comments:

QC Batch: 544014

A3: The sample was analyzed by serial dilution.

- Cell 1 (Lab ID: 10434623001)
  - Benzene
- Cell 3 (Lab ID: 10434623002)
  - Benzene
- Cell 5 AST (Lab ID: 10434623004)
  - Benzene
- Cell 5 Inf (Lab ID: 10434623005)
  - Benzene
  - Naphthalene

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 2958260)
  - 1,2,3-Trimethylbenzene
- Cell 1 (Lab ID: 10434623001)
  - 1,2,3-Trimethylbenzene
- Cell 3 (Lab ID: 10434623002)
  - 1,2,3-Trimethylbenzene
- Cell 5 AST (Lab ID: 10434623004)
  - 1,2,3-Trimethylbenzene
- Cell 5 Inf (Lab ID: 10434623005)
  - 1,2,3-Trimethylbenzene
- Cell 6 (Lab ID: 10434623003)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 2958261)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 1 **Lab ID: 10434623001** Collected: 06/04/18 09:15 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	91.1	37.8		06/12/18 04:38	67-64-1	
Benzene	**19900**	ug/m3	786	2419		06/12/18 17:32	71-43-2	A3
Bromodichloromethane	ND	ug/m3	51.4	37.8		06/12/18 04:38	75-27-4	
Bromoform	ND	ug/m3	199	37.8		06/12/18 04:38	75-25-2	
Bromomethane	ND	ug/m3	29.8	37.8		06/12/18 04:38	74-83-9	
2-Butanone (MEK)	ND	ug/m3	113	37.8		06/12/18 04:38	78-93-3	
Carbon disulfide	ND	ug/m3	23.9	37.8		06/12/18 04:38	75-15-0	
Carbon tetrachloride	ND	ug/m3	24.2	37.8		06/12/18 04:38	56-23-5	
Chlorobenzene	ND	ug/m3	35.4	37.8		06/12/18 04:38	108-90-7	
Chloroethane	ND	ug/m3	20.3	37.8		06/12/18 04:38	75-00-3	
Chloroform	ND	ug/m3	18.7	37.8		06/12/18 04:38	67-66-3	
Chloromethane	ND	ug/m3	15.9	37.8		06/12/18 04:38	74-87-3	
Cyclohexane	ND	ug/m3	26.5	37.8		06/12/18 04:38	110-82-7	
Dibromochloromethane	ND	ug/m3	65.4	37.8		06/12/18 04:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	59.0	37.8		06/12/18 04:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	46.1	37.8		06/12/18 04:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	46.1	37.8		06/12/18 04:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	46.1	37.8		06/12/18 04:38	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	38.2	37.8		06/12/18 04:38	75-71-8	
1,1-Dichloroethane	ND	ug/m3	31.1	37.8		06/12/18 04:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	15.5	37.8		06/12/18 04:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	30.5	37.8		06/12/18 04:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		06/12/18 04:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		06/12/18 04:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	35.5	37.8		06/12/18 04:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		06/12/18 04:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		06/12/18 04:38	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	138	37.8		06/12/18 04:38	123-91-1	
Ethylbenzene	ND	ug/m3	33.4	37.8		06/12/18 04:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	82.0	37.8		06/12/18 04:38	87-68-3	
2-Hexanone	ND	ug/m3	157	37.8		06/12/18 04:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	94.5	37.8		06/12/18 04:38	98-82-8	
Methylene Chloride	ND	ug/m3	133	37.8		06/12/18 04:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	157	37.8		06/12/18 04:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	138	37.8		06/12/18 04:38	1634-04-4	
Naphthalene	ND	ug/m3	101	37.8		06/12/18 04:38	91-20-3	
Styrene	ND	ug/m3	32.7	37.8		06/12/18 04:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	26.4	37.8		06/12/18 04:38	79-34-5	
Tetrachloroethene	ND	ug/m3	26.0	37.8		06/12/18 04:38	127-18-4	
Toluene	**274**	ug/m3	29.0	37.8		06/12/18 04:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	143	37.8		06/12/18 04:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	42.0	37.8		06/12/18 04:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.0	37.8		06/12/18 04:38	79-00-5	
Trichloroethene	ND	ug/m3	20.6	37.8		06/12/18 04:38	79-01-6	
Trichlorofluoromethane	ND	ug/m3	43.1	37.8		06/12/18 04:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	59.0	37.8		06/12/18 04:38	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	37.8	37.8		06/12/18 04:38	526-73-8	N2

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 1 **Lab ID: 10434623001** Collected: 06/04/18 09:15 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	37.8	37.8		06/12/18 04:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	37.8	37.8		06/12/18 04:38	108-67-8	
Vinyl chloride	ND	ug/m3	9.8	37.8		06/12/18 04:38	75-01-4	
Xylene (Total)	ND	ug/m3	100	37.8		06/12/18 04:38	1330-20-7	

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 3 **Lab ID: 10434623002** Collected: 06/04/18 09:00 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	64.6	26.8		06/12/18 03:29	67-64-1	
Benzene	**19800**	ug/m3	557	1715		06/12/18 16:58	71-43-2	A3
Bromodichloromethane	ND	ug/m3	36.4	26.8		06/12/18 03:29	75-27-4	
Bromoform	ND	ug/m3	141	26.8		06/12/18 03:29	75-25-2	
Bromomethane	ND	ug/m3	21.1	26.8		06/12/18 03:29	74-83-9	
2-Butanone (MEK)	ND	ug/m3	80.4	26.8		06/12/18 03:29	78-93-3	
Carbon disulfide	ND	ug/m3	17.0	26.8		06/12/18 03:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	17.1	26.8		06/12/18 03:29	56-23-5	
Chlorobenzene	ND	ug/m3	25.1	26.8		06/12/18 03:29	108-90-7	
Chloroethane	ND	ug/m3	14.4	26.8		06/12/18 03:29	75-00-3	
Chloroform	ND	ug/m3	13.3	26.8		06/12/18 03:29	67-66-3	
Chloromethane	ND	ug/m3	11.3	26.8		06/12/18 03:29	74-87-3	
Cyclohexane	ND	ug/m3	18.8	26.8		06/12/18 03:29	110-82-7	
Dibromochloromethane	ND	ug/m3	46.4	26.8		06/12/18 03:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	41.8	26.8		06/12/18 03:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	32.7	26.8		06/12/18 03:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	32.7	26.8		06/12/18 03:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	32.7	26.8		06/12/18 03:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	27.1	26.8		06/12/18 03:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	22.1	26.8		06/12/18 03:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	11.0	26.8		06/12/18 03:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	21.6	26.8		06/12/18 03:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	21.6	26.8		06/12/18 03:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	21.6	26.8		06/12/18 03:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	25.2	26.8		06/12/18 03:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	24.7	26.8		06/12/18 03:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	24.7	26.8		06/12/18 03:29	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	98.1	26.8		06/12/18 03:29	123-91-1	
Ethylbenzene	ND	ug/m3	23.7	26.8		06/12/18 03:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	58.2	26.8		06/12/18 03:29	87-68-3	
2-Hexanone	ND	ug/m3	111	26.8		06/12/18 03:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	67.0	26.8		06/12/18 03:29	98-82-8	
Methylene Chloride	ND	ug/m3	94.6	26.8		06/12/18 03:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	111	26.8		06/12/18 03:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	98.1	26.8		06/12/18 03:29	1634-04-4	
Naphthalene	ND	ug/m3	71.3	26.8		06/12/18 03:29	91-20-3	
Styrene	ND	ug/m3	23.2	26.8		06/12/18 03:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	18.7	26.8		06/12/18 03:29	79-34-5	
Tetrachloroethene	ND	ug/m3	18.5	26.8		06/12/18 03:29	127-18-4	
Toluene	**1640**	ug/m3	20.5	26.8		06/12/18 03:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	101	26.8		06/12/18 03:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	29.7	26.8		06/12/18 03:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14.9	26.8		06/12/18 03:29	79-00-5	
Trichloroethene	ND	ug/m3	14.6	26.8		06/12/18 03:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	30.6	26.8		06/12/18 03:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	41.8	26.8		06/12/18 03:29	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	26.8	26.8		06/12/18 03:29	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 3 **Lab ID: 10434623002** Collected: 06/04/18 09:00 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	26.8	26.8		06/12/18 03:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	26.8	26.8		06/12/18 03:29	108-67-8	
Vinyl chloride	ND	ug/m3	7.0	26.8		06/12/18 03:29	75-01-4	
Xylene (Total)	**429**	ug/m3	71.0	26.8		06/12/18 03:29	1330-20-7	

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 6 **Lab ID: 10434623003** Collected: 06/05/18 13:30 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	16500	6861		06/12/18 05:12	67-64-1	
Benzene	**531000**	ug/m3	2230	6861		06/12/18 05:12	71-43-2	
Bromodichloromethane	ND	ug/m3	9330	6861		06/12/18 05:12	75-27-4	
Bromoform	ND	ug/m3	36000	6861		06/12/18 05:12	75-25-2	
Bromomethane	ND	ug/m3	5410	6861		06/12/18 05:12	74-83-9	
2-Butanone (MEK)	ND	ug/m3	20600	6861		06/12/18 05:12	78-93-3	
Carbon disulfide	ND	ug/m3	4340	6861		06/12/18 05:12	75-15-0	
Carbon tetrachloride	ND	ug/m3	4380	6861		06/12/18 05:12	56-23-5	
Chlorobenzene	ND	ug/m3	6420	6861		06/12/18 05:12	108-90-7	
Chloroethane	ND	ug/m3	3680	6861		06/12/18 05:12	75-00-3	
Chloroform	ND	ug/m3	3400	6861		06/12/18 05:12	67-66-3	
Chloromethane	ND	ug/m3	2880	6861		06/12/18 05:12	74-87-3	
Cyclohexane	ND	ug/m3	4800	6861		06/12/18 05:12	110-82-7	
Dibromochloromethane	ND	ug/m3	11900	6861		06/12/18 05:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	10700	6861		06/12/18 05:12	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	8370	6861		06/12/18 05:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	8370	6861		06/12/18 05:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	8370	6861		06/12/18 05:12	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	6930	6861		06/12/18 05:12	75-71-8	
1,1-Dichloroethane	ND	ug/m3	5650	6861		06/12/18 05:12	75-34-3	
1,2-Dichloroethane	ND	ug/m3	2820	6861		06/12/18 05:12	107-06-2	
1,1-Dichloroethene	ND	ug/m3	5530	6861		06/12/18 05:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	5530	6861		06/12/18 05:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	5530	6861		06/12/18 05:12	156-60-5	
1,2-Dichloropropane	ND	ug/m3	6440	6861		06/12/18 05:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	6330	6861		06/12/18 05:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	6330	6861		06/12/18 05:12	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	25100	6861		06/12/18 05:12	123-91-1	
Ethylbenzene	**17300**	ug/m3	6060	6861		06/12/18 05:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	14900	6861		06/12/18 05:12	87-68-3	
2-Hexanone	ND	ug/m3	28500	6861		06/12/18 05:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	17200	6861		06/12/18 05:12	98-82-8	
Methylene Chloride	ND	ug/m3	24200	6861		06/12/18 05:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	28500	6861		06/12/18 05:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	25100	6861		06/12/18 05:12	1634-04-4	
Naphthalene	**58100**	ug/m3	18200	6861		06/12/18 05:12	91-20-3	
Styrene	**22800**	ug/m3	5940	6861		06/12/18 05:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4790	6861		06/12/18 05:12	79-34-5	
Tetrachloroethene	ND	ug/m3	4730	6861		06/12/18 05:12	127-18-4	
Toluene	**573000**	ug/m3	5260	6861		06/12/18 05:12	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	25900	6861		06/12/18 05:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	7620	6861		06/12/18 05:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	3810	6861		06/12/18 05:12	79-00-5	
Trichloroethene	ND	ug/m3	3750	6861		06/12/18 05:12	79-01-6	
Trichlorofluoromethane	ND	ug/m3	7820	6861		06/12/18 05:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	10700	6861		06/12/18 05:12	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	6850	6861		06/12/18 05:12	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 6 **Lab ID: 10434623003** Collected: 06/05/18 13:30 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**18200**	ug/m3	6850	6861		06/12/18 05:12	95-63-6	
1,3,5-Trimethylbenzene	**11900**	ug/m3	6850	6861		06/12/18 05:12	108-67-8	
Vinyl chloride	ND	ug/m3	1780	6861		06/12/18 05:12	75-01-4	
Xylene (Total)	**192000**	ug/m3	18200	6861		06/12/18 05:12	1330-20-7	

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 5 AST **Lab ID: 10434623004** Collected: 06/05/18 14:00 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	62.7	26		06/12/18 04:04	67-64-1	
Benzene	**4400**	ug/m3	135	416		06/12/18 16:23	71-43-2	A3
Bromodichloromethane	ND	ug/m3	35.4	26		06/12/18 04:04	75-27-4	
Bromoform	ND	ug/m3	137	26		06/12/18 04:04	75-25-2	
Bromomethane	ND	ug/m3	20.5	26		06/12/18 04:04	74-83-9	
2-Butanone (MEK)	ND	ug/m3	78.0	26		06/12/18 04:04	78-93-3	
Carbon disulfide	ND	ug/m3	16.5	26		06/12/18 04:04	75-15-0	
Carbon tetrachloride	ND	ug/m3	16.6	26		06/12/18 04:04	56-23-5	
Chlorobenzene	ND	ug/m3	24.3	26		06/12/18 04:04	108-90-7	
Chloroethane	ND	ug/m3	13.9	26		06/12/18 04:04	75-00-3	
Chloroform	ND	ug/m3	12.9	26		06/12/18 04:04	67-66-3	
Chloromethane	ND	ug/m3	10.9	26		06/12/18 04:04	74-87-3	
Cyclohexane	ND	ug/m3	18.2	26		06/12/18 04:04	110-82-7	
Dibromochloromethane	ND	ug/m3	45.0	26		06/12/18 04:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	40.6	26		06/12/18 04:04	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	31.7	26		06/12/18 04:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	31.7	26		06/12/18 04:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	31.7	26		06/12/18 04:04	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	26.3	26		06/12/18 04:04	75-71-8	
1,1-Dichloroethane	ND	ug/m3	21.4	26		06/12/18 04:04	75-34-3	
1,2-Dichloroethane	ND	ug/m3	10.7	26		06/12/18 04:04	107-06-2	
1,1-Dichloroethene	ND	ug/m3	21.0	26		06/12/18 04:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	21.0	26		06/12/18 04:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	21.0	26		06/12/18 04:04	156-60-5	
1,2-Dichloropropane	ND	ug/m3	24.4	26		06/12/18 04:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	24.0	26		06/12/18 04:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	24.0	26		06/12/18 04:04	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	95.2	26		06/12/18 04:04	123-91-1	
Ethylbenzene	**214**	ug/m3	23.0	26		06/12/18 04:04	100-41-4	IS
Hexachloro-1,3-butadiene	ND	ug/m3	56.4	26		06/12/18 04:04	87-68-3	
2-Hexanone	ND	ug/m3	108	26		06/12/18 04:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	65.0	26		06/12/18 04:04	98-82-8	
Methylene Chloride	ND	ug/m3	91.8	26		06/12/18 04:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	108	26		06/12/18 04:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	95.2	26		06/12/18 04:04	1634-04-4	
Naphthalene	**1920**	ug/m3	69.2	26		06/12/18 04:04	91-20-3	IS
Styrene	**944**	ug/m3	22.5	26		06/12/18 04:04	100-42-5	IS
1,1,2,2-Tetrachloroethane	ND	ug/m3	18.1	26		06/12/18 04:04	79-34-5	
Tetrachloroethene	ND	ug/m3	17.9	26		06/12/18 04:04	127-18-4	
Toluene	**2840**	ug/m3	19.9	26		06/12/18 04:04	108-88-3	IS
1,2,4-Trichlorobenzene	ND	ug/m3	98.0	26		06/12/18 04:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	28.9	26		06/12/18 04:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	14.4	26		06/12/18 04:04	79-00-5	
Trichloroethene	ND	ug/m3	14.2	26		06/12/18 04:04	79-01-6	
Trichlorofluoromethane	ND	ug/m3	29.6	26		06/12/18 04:04	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	40.6	26		06/12/18 04:04	76-13-1	
1,2,3-Trimethylbenzene	**113**	ug/m3	26.0	26		06/12/18 04:04	526-73-8	IS,N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 5 AST **Lab ID: 10434623004** Collected: 06/05/18 14:00 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**550**	ug/m3	26.0	26		06/12/18 04:04	95-63-6	IS
1,3,5-Trimethylbenzene	**293**	ug/m3	26.0	26		06/12/18 04:04	108-67-8	IS
Vinyl chloride	ND	ug/m3	6.8	26		06/12/18 04:04	75-01-4	
Xylene (Total)	**4620**	ug/m3	68.9	26		06/12/18 04:04	1330-20-7	ES

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 5 Inf **Lab ID: 10434623005** Collected: 06/05/18 14:30 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	108	44.9		06/12/18 02:55	67-64-1	
Benzene	**6570**	ug/m3	233	718.4		06/12/18 15:49	71-43-2	A3
Bromodichloromethane	ND	ug/m3	61.1	44.9		06/12/18 02:55	75-27-4	
Bromoform	ND	ug/m3	236	44.9		06/12/18 02:55	75-25-2	
Bromomethane	ND	ug/m3	35.4	44.9		06/12/18 02:55	74-83-9	
2-Butanone (MEK)	ND	ug/m3	135	44.9		06/12/18 02:55	78-93-3	
Carbon disulfide	ND	ug/m3	28.4	44.9		06/12/18 02:55	75-15-0	
Carbon tetrachloride	ND	ug/m3	28.7	44.9		06/12/18 02:55	56-23-5	
Chlorobenzene	ND	ug/m3	42.0	44.9		06/12/18 02:55	108-90-7	
Chloroethane	ND	ug/m3	24.1	44.9		06/12/18 02:55	75-00-3	
Chloroform	ND	ug/m3	22.3	44.9		06/12/18 02:55	67-66-3	
Chloromethane	ND	ug/m3	18.9	44.9		06/12/18 02:55	74-87-3	
Cyclohexane	**81.7**	ug/m3	31.4	44.9		06/12/18 02:55	110-82-7	IS
Dibromochloromethane	ND	ug/m3	77.7	44.9		06/12/18 02:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	70.0	44.9		06/12/18 02:55	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	54.8	44.9		06/12/18 02:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	54.8	44.9		06/12/18 02:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	54.8	44.9		06/12/18 02:55	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	45.3	44.9		06/12/18 02:55	75-71-8	
1,1-Dichloroethane	ND	ug/m3	37.0	44.9		06/12/18 02:55	75-34-3	
1,2-Dichloroethane	ND	ug/m3	18.5	44.9		06/12/18 02:55	107-06-2	
1,1-Dichloroethene	ND	ug/m3	36.2	44.9		06/12/18 02:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	36.2	44.9		06/12/18 02:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	36.2	44.9		06/12/18 02:55	156-60-5	
1,2-Dichloropropane	ND	ug/m3	42.2	44.9		06/12/18 02:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	41.4	44.9		06/12/18 02:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	41.4	44.9		06/12/18 02:55	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	164	44.9		06/12/18 02:55	123-91-1	
Ethylbenzene	**46.1**	ug/m3	39.6	44.9		06/12/18 02:55	100-41-4	IS
Hexachloro-1,3-butadiene	ND	ug/m3	97.4	44.9		06/12/18 02:55	87-68-3	
2-Hexanone	ND	ug/m3	187	44.9		06/12/18 02:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	112	44.9		06/12/18 02:55	98-82-8	
Methylene Chloride	**807**	ug/m3	158	44.9		06/12/18 02:55	75-09-2	IS
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	187	44.9		06/12/18 02:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	164	44.9		06/12/18 02:55	1634-04-4	
Naphthalene	**2530**	ug/m3	1910	718.4		06/12/18 15:49	91-20-3	A3
Styrene	**118**	ug/m3	38.9	44.9		06/12/18 02:55	100-42-5	IS
1,1,2,2-Tetrachloroethane	ND	ug/m3	31.3	44.9		06/12/18 02:55	79-34-5	
Tetrachloroethene	ND	ug/m3	30.9	44.9		06/12/18 02:55	127-18-4	
Toluene	**3280**	ug/m3	34.4	44.9		06/12/18 02:55	108-88-3	IS
1,2,4-Trichlorobenzene	ND	ug/m3	169	44.9		06/12/18 02:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	49.8	44.9		06/12/18 02:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	24.9	44.9		06/12/18 02:55	79-00-5	
Trichloroethene	ND	ug/m3	24.5	44.9		06/12/18 02:55	79-01-6	
Trichlorofluoromethane	ND	ug/m3	51.2	44.9		06/12/18 02:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	70.0	44.9		06/12/18 02:55	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	44.9	44.9		06/12/18 02:55	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10434623

Sample: Cell 5 Inf **Lab ID: 10434623005** Collected: 06/05/18 14:30 Received: 06/08/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**106**	ug/m3	44.9	44.9		06/12/18 02:55	95-63-6	IS
1,3,5-Trimethylbenzene	ND	ug/m3	44.9	44.9		06/12/18 02:55	108-67-8	
Vinyl chloride	ND	ug/m3	11.7	44.9		06/12/18 02:55	75-01-4	
Xylene (Total)	**786**	ug/m3	119	44.9		06/12/18 02:55	1330-20-7	ES

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10434623

QC Batch: 544014 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10434623001, 10434623002, 10434623003, 10434623004, 10434623005

METHOD BLANK: 2958260 Matrix: Air
Associated Lab Samples: 10434623001, 10434623002, 10434623003, 10434623004, 10434623005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	06/11/18 11:05	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	06/11/18 11:05	
1,1,2-Trichloroethane	ug/m3	ND	0.56	06/11/18 11:05	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	06/11/18 11:05	
1,1-Dichloroethane	ug/m3	ND	0.82	06/11/18 11:05	
1,1-Dichloroethene	ug/m3	ND	0.81	06/11/18 11:05	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	06/11/18 11:05	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	06/11/18 11:05	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	06/11/18 11:05	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	06/11/18 11:05	
1,2-Dichlorobenzene	ug/m3	ND	1.2	06/11/18 11:05	
1,2-Dichloroethane	ug/m3	ND	0.41	06/11/18 11:05	
1,2-Dichloropropane	ug/m3	ND	0.94	06/11/18 11:05	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	06/11/18 11:05	
1,3-Dichlorobenzene	ug/m3	ND	1.2	06/11/18 11:05	
1,4-Dichlorobenzene	ug/m3	ND	1.2	06/11/18 11:05	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	06/11/18 11:05	
2-Butanone (MEK)	ug/m3	ND	3.0	06/11/18 11:05	
2-Hexanone	ug/m3	ND	4.2	06/11/18 11:05	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	06/11/18 11:05	
Acetone	ug/m3	ND	2.4	06/11/18 11:05	
Benzene	ug/m3	ND	0.32	06/11/18 11:05	
Bromodichloromethane	ug/m3	ND	1.4	06/11/18 11:05	
Bromoform	ug/m3	ND	5.3	06/11/18 11:05	
Bromomethane	ug/m3	ND	0.79	06/11/18 11:05	
Carbon disulfide	ug/m3	ND	0.63	06/11/18 11:05	
Carbon tetrachloride	ug/m3	ND	0.64	06/11/18 11:05	
Chlorobenzene	ug/m3	ND	0.94	06/11/18 11:05	
Chloroethane	ug/m3	ND	0.54	06/11/18 11:05	
Chloroform	ug/m3	ND	0.50	06/11/18 11:05	
Chloromethane	ug/m3	ND	0.42	06/11/18 11:05	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	06/11/18 11:05	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	06/11/18 11:05	
Cyclohexane	ug/m3	ND	0.70	06/11/18 11:05	
Dibromochloromethane	ug/m3	ND	1.7	06/11/18 11:05	
Dichlorodifluoromethane	ug/m3	ND	1.0	06/11/18 11:05	
Ethylbenzene	ug/m3	ND	0.88	06/11/18 11:05	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	06/11/18 11:05	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	06/11/18 11:05	
Methyl-tert-butyl ether	ug/m3	ND	3.7	06/11/18 11:05	
Methylene Chloride	ug/m3	ND	3.5	06/11/18 11:05	

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REPORT OF LABORATORY ANALYSIS

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(612)607-1700

QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10434623

METHOD BLANK: 2958260 Matrix: Air
Associated Lab Samples: 10434623001, 10434623002, 10434623003, 10434623004, 10434623005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	06/11/18 11:05	
Styrene	ug/m3	ND	0.87	06/11/18 11:05	
Tetrachloroethene	ug/m3	ND	0.69	06/11/18 11:05	
Toluene	ug/m3	ND	0.77	06/11/18 11:05	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	06/11/18 11:05	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	06/11/18 11:05	
Trichloroethene	ug/m3	ND	0.55	06/11/18 11:05	
Trichlorofluoromethane	ug/m3	ND	1.1	06/11/18 11:05	
Vinyl chloride	ug/m3	ND	0.26	06/11/18 11:05	
Xylene (Total)	ug/m3	ND	2.6	06/11/18 11:05	

LABORATORY CONTROL SAMPLE: 2958261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	60.6	109	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	83.8	120	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	63.0	114	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	83.8	108	63-139	
1,1-Dichloroethane	ug/m3	41.1	44.4	108	70-134	
1,1-Dichloroethene	ug/m3	40.3	43.7	109	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	57.7	116	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	84.6	112	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	59.4	119	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	89.6	115	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	72.4	119	70-137	
1,2-Dichloroethane	ug/m3	41.1	46.4	113	70-136	
1,2-Dichloropropane	ug/m3	47	51.1	109	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	57.0	114	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	72.5	119	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	75.4	123	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	106	116	70-145	
2-Butanone (MEK)	ug/m3	30	36.1	120	65-143	
2-Hexanone	ug/m3	41.6	49.3	119	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	46.0	110	70-135	
Acetone	ug/m3	121	135	112	59-132	
Benzene	ug/m3	32.5	34.3	106	70-134	
Bromodichloromethane	ug/m3	68.1	80.8	119	70-142	
Bromoform	ug/m3	105	114	108	69-150	
Bromomethane	ug/m3	39.5	44.7	113	61-141	
Carbon disulfide	ug/m3	31.6	36.4	115	66-134	
Carbon tetrachloride	ug/m3	64	64.1	100	60-145	
Chlorobenzene	ug/m3	46.8	52.2	112	70-130	
Chloroethane	ug/m3	26.8	32.8	122	65-143	
Chloroform	ug/m3	49.6	55.0	111	70-132	

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(612)607-1700

QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10434623

LABORATORY CONTROL SAMPLE: 2958261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	23.6	113	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	43.7	108	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	53.8	117	70-136	
Cyclohexane	ug/m3	35	39.4	113	70-133	
Dibromochloromethane	ug/m3	86.6	112	129	68-149	
Dichlorodifluoromethane	ug/m3	50.3	55.9	111	69-130	
Ethylbenzene	ug/m3	44.1	48.9	111	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	105	97	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	57.0	114	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	41.4	113	70-132	
Methylene Chloride	ug/m3	177	190	107	67-132	
Naphthalene	ug/m3	53.3	53.8	101	55-136	
Styrene	ug/m3	43.3	55.0	127	70-139	
Tetrachloroethene	ug/m3	68.9	74.4	108	70-133	
Toluene	ug/m3	38.3	42.0	110	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.9	111	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	56.8	123	70-135	
Trichloroethene	ug/m3	54.6	60.0	110	70-135	
Trichlorofluoromethane	ug/m3	57.1	63.0	110	59-140	
Vinyl chloride	ug/m3	26	32.0	123	70-141	
Xylene (Total)	ug/m3	132	153	115	70-138	

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QUALIFIERS

Project: TO15
Pace Project No.: 10434623

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10434623003

[1]	This result is reported from a serial dilution.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
ES	The reported result is estimated because one or more of the constituent results are qualified as such.
IS	The internal standard response is below criteria. Results may be biased high.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO15
Pace Project No.: 10434623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10434623001	**Cell 1**	TO-15	544014		
10434623002	**Cell 3**	TO-15	544014		
10434623003	**Cell 6**	TO-15	544014		
10434623004	**Cell 5 AST**	TO-15	544014		
10434623005	**Cell 5 Inf**	TO-15	544014		

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WO# : 10434623

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relev

10434623

32176

Page: of

Section A Required Client Information:

Company: EAG
Address: 1000 Sparrows Point Blvd Suite B2
Email To: JCalenda@environanalytics.jacobs.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Calenda
Copy To: Josh Burke
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: Lauren Sargent
Company Name: EAG
Address: 1650 Des Peres Rd, Suite 303 St Louis MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other X

Location of Sampling by State: MD

Reporting Units: ug/m³ X mg/m³ ___ PPBV X PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

*Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	*Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 1	6LC				6/4/18	915	29	0	577						X					001
2	Cell 3	6LC				6/4/18	900	28	0	1743						X					002
3	Cell 6	6LC				6/5/18	1330	29	0	17						X					003
4	Cell 5 AST					6/5/18	1400	29	0	18						X					004
5	Cell 5 Inf					6/5/18	1430	29	20	620						X					005
6	unused																				
7	unused																				
8	unused																				
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	6/6/18	805		6-8-18	930

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 02May2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.15	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO#: 10434623

PM: NB3 Due Date: 06/15/18

CLIENT: EnviroAnalyt

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 7476 3007 6056

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 6-8-18 AA

Type of ice Received ☐ Blue ☐ Wet ☒ None

			Comments:
Chain of Custody Present?	☒ Yes	☐ No	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	7.
Sufficient Volume?	☒ Yes	☐ No	8.
Correct Containers Used?	☒ Yes	☐ No	9.
-Pace Containers Used?	☒ Yes	☐ No	
Containers Intact?	☒ Yes	☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No	12.

Samples Received: Stand alone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 1			+1 ~~-27~~	+5					
3			0	"					
6			0	"					
5 Ast			+0.5	"					
5 Inf			-21	"					
Unused Can	0194	—	-28	—					
"	0105	—	-27	—					
"	0528	—	-30	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution: Tried to contact J.Calenda to confirm compound list on 6/11, no response was given

Project Manager Review: Lathan Boberg **Date:** 6/18/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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(612)607-1700

July 18, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: TO15
Pace Project No.: 10438962

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: TO15
Pace Project No.: 10438962

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: 2926.01 via A2LA

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SAMPLE SUMMARY

Project: TO15
Pace Project No.: 10438962

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10438962001	**Cell 3**	Air	07/02/18 13:00	07/11/18 09:45
10438962002	**Cell 5 INF**	Air	07/06/18 09:00	07/11/18 09:45
10438962003	**Cell 5 AST**	Air	07/06/18 09:15	07/11/18 09:45
10438962004	**Cell 6**	Air	07/06/18 10:00	07/11/18 09:45

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SAMPLE ANALYTE COUNT

Project: TO15
Pace Project No.: 10438962

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10438962001	**Cell 3**	TO-15	MG2	51
10438962002	**Cell 5 INF**	TO-15	MG2	51
10438962003	**Cell 5 AST**	TO-15	MG2	51
10438962004	**Cell 6**	TO-15	MG2	51

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10438962

Date: July 18, 2018

Cell 6 (Lab ID: 10438962004)

- A3: This result is reported from a serial dilution.

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10438962

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: July 18, 2018

General Information:
4 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 550111

A3: The sample was analyzed by serial dilution.
- Cell 3 (Lab ID: 10438962001)
  - Benzene
- Cell 5 INF (Lab ID: 10438962002)
  - Benzene
- DUP (Lab ID: 2990459)
  - Benzene

N2: The lab does not hold NELAC/TNI accreditation for this parameter.
- BLANK (Lab ID: 2989354)
  - 1,2,3-Trimethylbenzene
- Cell 3 (Lab ID: 10438962001)
  - 1,2,3-Trimethylbenzene
- Cell 5 AST (Lab ID: 10438962003)
  - 1,2,3-Trimethylbenzene

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10438962

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: July 18, 2018

Analyte Comments:

QC Batch: 550111

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- Cell 5 INF (Lab ID: 10438962002)
  - 1,2,3-Trimethylbenzene
- Cell 6 (Lab ID: 10438962004)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 2990459)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 2989355)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 3 **Lab ID: 10438962001** Collected: 07/02/18 13:00 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	104	43.2		07/13/18 03:41	67-64-1	
Benzene	**395000**	ug/m3	1800	5530		07/13/18 14:09	71-43-2	A3
Bromodichloromethane	ND	ug/m3	58.8	43.2		07/13/18 03:41	75-27-4	
Bromoform	ND	ug/m3	90.7	43.2		07/13/18 03:41	75-25-2	
Bromomethane	ND	ug/m3	34.1	43.2		07/13/18 03:41	74-83-9	
2-Butanone (MEK)	ND	ug/m3	130	43.2		07/13/18 03:41	78-93-3	
Carbon disulfide	ND	ug/m3	27.3	43.2		07/13/18 03:41	75-15-0	
Carbon tetrachloride	ND	ug/m3	55.3	43.2		07/13/18 03:41	56-23-5	
Chlorobenzene	ND	ug/m3	40.4	43.2		07/13/18 03:41	108-90-7	
Chloroethane	ND	ug/m3	23.2	43.2		07/13/18 03:41	75-00-3	
Chloroform	ND	ug/m3	21.4	43.2		07/13/18 03:41	67-66-3	
Chloromethane	ND	ug/m3	18.1	43.2		07/13/18 03:41	74-87-3	
Cyclohexane	ND	ug/m3	30.2	43.2		07/13/18 03:41	110-82-7	
Dibromochloromethane	ND	ug/m3	74.7	43.2		07/13/18 03:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	67.4	43.2		07/13/18 03:41	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	52.7	43.2		07/13/18 03:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	52.7	43.2		07/13/18 03:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	52.7	43.2		07/13/18 03:41	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	43.6	43.2		07/13/18 03:41	75-71-8	
1,1-Dichloroethane	ND	ug/m3	35.6	43.2		07/13/18 03:41	75-34-3	
1,2-Dichloroethane	ND	ug/m3	17.8	43.2		07/13/18 03:41	107-06-2	
1,1-Dichloroethene	ND	ug/m3	34.8	43.2		07/13/18 03:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	34.8	43.2		07/13/18 03:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	34.8	43.2		07/13/18 03:41	156-60-5	
1,2-Dichloropropane	ND	ug/m3	40.6	43.2		07/13/18 03:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	39.9	43.2		07/13/18 03:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	39.9	43.2		07/13/18 03:41	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	158	43.2		07/13/18 03:41	123-91-1	
Ethylbenzene	**52.4**	ug/m3	38.1	43.2		07/13/18 03:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	93.7	43.2		07/13/18 03:41	87-68-3	
2-Hexanone	ND	ug/m3	180	43.2		07/13/18 03:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	108	43.2		07/13/18 03:41	98-82-8	
Methylene Chloride	ND	ug/m3	152	43.2		07/13/18 03:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	180	43.2		07/13/18 03:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	158	43.2		07/13/18 03:41	1634-04-4	
Naphthalene	ND	ug/m3	115	43.2		07/13/18 03:41	91-20-3	
Styrene	ND	ug/m3	37.4	43.2		07/13/18 03:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	30.2	43.2		07/13/18 03:41	79-34-5	
Tetrachloroethene	ND	ug/m3	29.8	43.2		07/13/18 03:41	127-18-4	
Toluene	**5010**	ug/m3	33.1	43.2		07/13/18 03:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	163	43.2		07/13/18 03:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	48.0	43.2		07/13/18 03:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	24.0	43.2		07/13/18 03:41	79-00-5	
Trichloroethene	ND	ug/m3	23.6	43.2		07/13/18 03:41	79-01-6	
Trichlorofluoromethane	ND	ug/m3	49.2	43.2		07/13/18 03:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	67.4	43.2		07/13/18 03:41	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	43.2	43.2		07/13/18 03:41	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 3 **Lab ID: 10438962001** Collected: 07/02/18 13:00 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	43.2	43.2		07/13/18 03:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	43.2	43.2		07/13/18 03:41	108-67-8	
Vinyl chloride	ND	ug/m3	11.2	43.2		07/13/18 03:41	75-01-4	
Xylene (Total)	**621**	ug/m3	114	43.2		07/13/18 03:41	1330-20-7	

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 5 INF **Lab ID: 10438962002** Collected: 07/06/18 09:00 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	307	127.5		07/13/18 05:23	67-64-1	
Benzene	**23800**	ug/m3	315	969.6		07/13/18 15:17	71-43-2	A3
Bromodichloromethane	ND	ug/m3	173	127.5		07/13/18 05:23	75-27-4	
Bromoform	ND	ug/m3	268	127.5		07/13/18 05:23	75-25-2	
Bromomethane	ND	ug/m3	101	127.5		07/13/18 05:23	74-83-9	
2-Butanone (MEK)	ND	ug/m3	382	127.5		07/13/18 05:23	78-93-3	
Carbon disulfide	ND	ug/m3	80.7	127.5		07/13/18 05:23	75-15-0	
Carbon tetrachloride	ND	ug/m3	163	127.5		07/13/18 05:23	56-23-5	
Chlorobenzene	ND	ug/m3	119	127.5		07/13/18 05:23	108-90-7	
Chloroethane	ND	ug/m3	68.3	127.5		07/13/18 05:23	75-00-3	
Chloroform	ND	ug/m3	63.2	127.5		07/13/18 05:23	67-66-3	
Chloromethane	ND	ug/m3	53.6	127.5		07/13/18 05:23	74-87-3	
Cyclohexane	**117**	ug/m3	89.2	127.5		07/13/18 05:23	110-82-7	
Dibromochloromethane	ND	ug/m3	221	127.5		07/13/18 05:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	199	127.5		07/13/18 05:23	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	156	127.5		07/13/18 05:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	156	127.5		07/13/18 05:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	156	127.5		07/13/18 05:23	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	129	127.5		07/13/18 05:23	75-71-8	
1,1-Dichloroethane	ND	ug/m3	105	127.5		07/13/18 05:23	75-34-3	
1,2-Dichloroethane	ND	ug/m3	52.4	127.5		07/13/18 05:23	107-06-2	
1,1-Dichloroethene	ND	ug/m3	103	127.5		07/13/18 05:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	103	127.5		07/13/18 05:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	103	127.5		07/13/18 05:23	156-60-5	
1,2-Dichloropropane	ND	ug/m3	120	127.5		07/13/18 05:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	118	127.5		07/13/18 05:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	118	127.5		07/13/18 05:23	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	467	127.5		07/13/18 05:23	123-91-1	
Ethylbenzene	ND	ug/m3	113	127.5		07/13/18 05:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	277	127.5		07/13/18 05:23	87-68-3	
2-Hexanone	ND	ug/m3	530	127.5		07/13/18 05:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	319	127.5		07/13/18 05:23	98-82-8	
Methylene Chloride	ND	ug/m3	450	127.5		07/13/18 05:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	530	127.5		07/13/18 05:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	467	127.5		07/13/18 05:23	1634-04-4	
Naphthalene	**4600**	ug/m3	339	127.5		07/13/18 05:23	91-20-3	
Styrene	**194**	ug/m3	110	127.5		07/13/18 05:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	89.0	127.5		07/13/18 05:23	79-34-5	
Tetrachloroethene	ND	ug/m3	87.8	127.5		07/13/18 05:23	127-18-4	
Toluene	**5300**	ug/m3	97.7	127.5		07/13/18 05:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	481	127.5		07/13/18 05:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	142	127.5		07/13/18 05:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	70.8	127.5		07/13/18 05:23	79-00-5	
Trichloroethene	ND	ug/m3	69.6	127.5		07/13/18 05:23	79-01-6	
Trichlorofluoromethane	ND	ug/m3	145	127.5		07/13/18 05:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	199	127.5		07/13/18 05:23	76-13-1	
1,2,3-Trimethylbenzene	**186**	ug/m3	127	127.5		07/13/18 05:23	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 5 INF **Lab ID: 10438962002** Collected: 07/06/18 09:00 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**416**	ug/m3	127	127.5		07/13/18 05:23	95-63-6	
1,3,5-Trimethylbenzene	**267**	ug/m3	127	127.5		07/13/18 05:23	108-67-8	
Vinyl chloride	ND	ug/m3	33.2	127.5		07/13/18 05:23	75-01-4	
Xylene (Total)	**1910**	ug/m3	338	127.5		07/13/18 05:23	1330-20-7	

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 5 AST **Lab ID: 10438962003** Collected: 07/06/18 09:15 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**144**	ug/m3	98.3	40.8		07/13/18 04:49	67-64-1	
Benzene	**2120**	ug/m3	13.3	40.8		07/13/18 16:26	71-43-2	
Bromodichloromethane	ND	ug/m3	55.5	40.8		07/13/18 04:49	75-27-4	
Bromoform	ND	ug/m3	85.7	40.8		07/13/18 04:49	75-25-2	
Bromomethane	ND	ug/m3	32.2	40.8		07/13/18 04:49	74-83-9	
2-Butanone (MEK)	ND	ug/m3	122	40.8		07/13/18 04:49	78-93-3	
Carbon disulfide	ND	ug/m3	25.8	40.8		07/13/18 04:49	75-15-0	
Carbon tetrachloride	ND	ug/m3	52.2	40.8		07/13/18 04:49	56-23-5	
Chlorobenzene	ND	ug/m3	38.2	40.8		07/13/18 04:49	108-90-7	
Chloroethane	ND	ug/m3	21.9	40.8		07/13/18 04:49	75-00-3	
Chloroform	ND	ug/m3	20.2	40.8		07/13/18 04:49	67-66-3	
Chloromethane	ND	ug/m3	17.1	40.8		07/13/18 04:49	74-87-3	
Cyclohexane	ND	ug/m3	28.6	40.8		07/13/18 04:49	110-82-7	
Dibromochloromethane	ND	ug/m3	70.6	40.8		07/13/18 04:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	63.6	40.8		07/13/18 04:49	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	49.8	40.8		07/13/18 04:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	49.8	40.8		07/13/18 04:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	49.8	40.8		07/13/18 04:49	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	41.2	40.8		07/13/18 04:49	75-71-8	
1,1-Dichloroethane	ND	ug/m3	33.6	40.8		07/13/18 04:49	75-34-3	
1,2-Dichloroethane	ND	ug/m3	16.8	40.8		07/13/18 04:49	107-06-2	
1,1-Dichloroethene	ND	ug/m3	32.9	40.8		07/13/18 04:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	32.9	40.8		07/13/18 04:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	32.9	40.8		07/13/18 04:49	156-60-5	
1,2-Dichloropropane	ND	ug/m3	38.3	40.8		07/13/18 04:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	37.7	40.8		07/13/18 04:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	37.7	40.8		07/13/18 04:49	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	149	40.8		07/13/18 04:49	123-91-1	
Ethylbenzene	**143**	ug/m3	36.0	40.8		07/13/18 04:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	88.5	40.8		07/13/18 04:49	87-68-3	
2-Hexanone	ND	ug/m3	170	40.8		07/13/18 04:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	102	40.8		07/13/18 04:49	98-82-8	
Methylene Chloride	ND	ug/m3	144	40.8		07/13/18 04:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	170	40.8		07/13/18 04:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	149	40.8		07/13/18 04:49	1634-04-4	
Naphthalene	**2310**	ug/m3	109	40.8		07/13/18 16:26	91-20-3	
Styrene	**477**	ug/m3	35.3	40.8		07/13/18 04:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	28.5	40.8		07/13/18 04:49	79-34-5	
Tetrachloroethene	ND	ug/m3	28.1	40.8		07/13/18 04:49	127-18-4	
Toluene	**2050**	ug/m3	31.3	40.8		07/13/18 04:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	154	40.8		07/13/18 04:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	45.3	40.8		07/13/18 04:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	22.6	40.8		07/13/18 04:49	79-00-5	
Trichloroethene	ND	ug/m3	22.3	40.8		07/13/18 04:49	79-01-6	
Trichlorofluoromethane	ND	ug/m3	46.5	40.8		07/13/18 04:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	63.6	40.8		07/13/18 04:49	76-13-1	
1,2,3-Trimethylbenzene	**51.8**	ug/m3	40.8	40.8		07/13/18 04:49	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 5 AST **Lab ID: 10438962003** Collected: 07/06/18 09:15 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**307**	ug/m3	40.8	40.8		07/13/18 04:49	95-63-6	
1,3,5-Trimethylbenzene	**160**	ug/m3	40.8	40.8		07/13/18 04:49	108-67-8	
Vinyl chloride	ND	ug/m3	10.6	40.8		07/13/18 04:49	75-01-4	
Xylene (Total)	**2850**	ug/m3	108	40.8		07/13/18 04:49	1330-20-7	

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 6 **Lab ID: 10438962004** Collected: 07/06/18 10:00 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	4600	1907		07/13/18 05:57	67-64-1	
Benzene	**407000**	ug/m3	2480	7629		07/13/18 15:51	71-43-2	
Bromodichloromethane	ND	ug/m3	2590	1907		07/13/18 05:57	75-27-4	
Bromoform	ND	ug/m3	4000	1907		07/13/18 05:57	75-25-2	
Bromomethane	ND	ug/m3	1500	1907		07/13/18 05:57	74-83-9	
2-Butanone (MEK)	ND	ug/m3	5720	1907		07/13/18 05:57	78-93-3	
Carbon disulfide	ND	ug/m3	1210	1907		07/13/18 05:57	75-15-0	
Carbon tetrachloride	ND	ug/m3	2440	1907		07/13/18 05:57	56-23-5	
Chlorobenzene	ND	ug/m3	1780	1907		07/13/18 05:57	108-90-7	
Chloroethane	ND	ug/m3	1020	1907		07/13/18 05:57	75-00-3	
Chloroform	ND	ug/m3	946	1907		07/13/18 05:57	67-66-3	
Chloromethane	ND	ug/m3	801	1907		07/13/18 05:57	74-87-3	
Cyclohexane	ND	ug/m3	1330	1907		07/13/18 05:57	110-82-7	
Dibromochloromethane	ND	ug/m3	3300	1907		07/13/18 05:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2970	1907		07/13/18 05:57	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2330	1907		07/13/18 05:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2330	1907		07/13/18 05:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	2330	1907		07/13/18 05:57	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1930	1907		07/13/18 05:57	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1570	1907		07/13/18 05:57	75-34-3	
1,2-Dichloroethane	ND	ug/m3	784	1907		07/13/18 05:57	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1540	1907		07/13/18 05:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1540	1907		07/13/18 05:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1540	1907		07/13/18 05:57	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1790	1907		07/13/18 05:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1760	1907		07/13/18 05:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1760	1907		07/13/18 05:57	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	6980	1907		07/13/18 05:57	123-91-1	
Ethylbenzene	**13700**	ug/m3	1680	1907		07/13/18 05:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	4140	1907		07/13/18 05:57	87-68-3	
2-Hexanone	ND	ug/m3	7930	1907		07/13/18 05:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	4770	1907		07/13/18 05:57	98-82-8	
Methylene Chloride	ND	ug/m3	6730	1907		07/13/18 05:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	7930	1907		07/13/18 05:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	6980	1907		07/13/18 05:57	1634-04-4	
Naphthalene	**25500**	ug/m3	5070	1907		07/13/18 05:57	91-20-3	
Styrene	**19700**	ug/m3	1650	1907		07/13/18 05:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1330	1907		07/13/18 05:57	79-34-5	
Tetrachloroethene	ND	ug/m3	1310	1907		07/13/18 05:57	127-18-4	
Toluene	**462000**	ug/m3	5840	7629		07/13/18 15:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	7190	1907		07/13/18 05:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2120	1907		07/13/18 05:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1060	1907		07/13/18 05:57	79-00-5	
Trichloroethene	ND	ug/m3	1040	1907		07/13/18 05:57	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2170	1907		07/13/18 05:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2970	1907		07/13/18 05:57	76-13-1	
1,2,3-Trimethylbenzene	**2060**	ug/m3	1910	1907		07/13/18 05:57	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10438962

Sample: Cell 6 **Lab ID: 10438962004** Collected: 07/06/18 10:00 Received: 07/11/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**19600**	ug/m3	1910	1907		07/13/18 05:57	95-63-6	
1,3,5-Trimethylbenzene	**12900**	ug/m3	1910	1907		07/13/18 05:57	108-67-8	
Vinyl chloride	ND	ug/m3	496	1907		07/13/18 05:57	75-01-4	
Xylene (Total)	**142000**	ug/m3	5050	1907		07/13/18 05:57	1330-20-7	

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10438962

QC Batch: 550111 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10438962001, 10438962002, 10438962003, 10438962004

METHOD BLANK: 2989354 Matrix: Air
Associated Lab Samples: 10438962001, 10438962002, 10438962003, 10438962004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/12/18 14:48	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	07/12/18 14:48	
1,1,2-Trichloroethane	ug/m3	ND	0.56	07/12/18 14:48	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	07/12/18 14:48	
1,1-Dichloroethane	ug/m3	ND	0.82	07/12/18 14:48	
1,1-Dichloroethene	ug/m3	ND	0.81	07/12/18 14:48	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	07/12/18 14:48	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	07/12/18 14:48	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	07/12/18 14:48	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	07/12/18 14:48	
1,2-Dichlorobenzene	ug/m3	ND	1.2	07/12/18 14:48	
1,2-Dichloroethane	ug/m3	ND	0.41	07/12/18 14:48	
1,2-Dichloropropane	ug/m3	ND	0.94	07/12/18 14:48	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	07/12/18 14:48	
1,3-Dichlorobenzene	ug/m3	ND	1.2	07/12/18 14:48	
1,4-Dichlorobenzene	ug/m3	ND	1.2	07/12/18 14:48	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	07/12/18 14:48	
2-Butanone (MEK)	ug/m3	ND	3.0	07/12/18 14:48	
2-Hexanone	ug/m3	ND	4.2	07/12/18 14:48	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	07/12/18 14:48	
Acetone	ug/m3	ND	2.4	07/12/18 14:48	
Benzene	ug/m3	ND	0.32	07/12/18 14:48	
Bromodichloromethane	ug/m3	ND	1.4	07/12/18 14:48	
Bromoform	ug/m3	ND	2.1	07/12/18 14:48	
Bromomethane	ug/m3	ND	0.79	07/12/18 14:48	
Carbon disulfide	ug/m3	ND	0.63	07/12/18 14:48	
Carbon tetrachloride	ug/m3	ND	1.3	07/12/18 14:48	MN
Chlorobenzene	ug/m3	ND	0.94	07/12/18 14:48	
Chloroethane	ug/m3	ND	0.54	07/12/18 14:48	
Chloroform	ug/m3	ND	0.50	07/12/18 14:48	
Chloromethane	ug/m3	ND	0.42	07/12/18 14:48	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/12/18 14:48	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	07/12/18 14:48	
Cyclohexane	ug/m3	ND	0.70	07/12/18 14:48	
Dibromochloromethane	ug/m3	ND	1.7	07/12/18 14:48	
Dichlorodifluoromethane	ug/m3	ND	1.0	07/12/18 14:48	
Ethylbenzene	ug/m3	ND	0.88	07/12/18 14:48	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	07/12/18 14:48	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	07/12/18 14:48	
Methyl-tert-butyl ether	ug/m3	ND	3.7	07/12/18 14:48	
Methylene Chloride	ug/m3	ND	3.5	07/12/18 14:48	

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10438962

METHOD BLANK: 2989354 Matrix: Air
Associated Lab Samples: 10438962001, 10438962002, 10438962003, 10438962004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	07/12/18 14:48	
Styrene	ug/m3	ND	0.87	07/12/18 14:48	
Tetrachloroethene	ug/m3	ND	0.69	07/12/18 14:48	
Toluene	ug/m3	ND	0.77	07/12/18 14:48	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/12/18 14:48	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	07/12/18 14:48	
Trichloroethene	ug/m3	ND	0.55	07/12/18 14:48	
Trichlorofluoromethane	ug/m3	ND	1.1	07/12/18 14:48	
Vinyl chloride	ug/m3	ND	0.26	07/12/18 14:48	
Xylene (Total)	ug/m3	ND	2.6	07/12/18 14:48	

LABORATORY CONTROL SAMPLE: 2989355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	59.3	50.9	86	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	76.1	74.0	97	70-146	
1,1,2-Trichloroethane	ug/m3	61	52.7	86	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.2	65.4	81	63-139	
1,1-Dichloroethane	ug/m3	43.6	37.6	86	70-134	
1,1-Dichloroethene	ug/m3	39.9	34.5	87	70-137	
1,2,3-Trimethylbenzene	ug/m3	54.5	57.7	106	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	81.5	80.3	99	60-133	
1,2,4-Trimethylbenzene	ug/m3	53.5	59.7	112	70-137	
1,2-Dibromoethane (EDB)	ug/m3	85.1	81.8	96	70-140	
1,2-Dichlorobenzene	ug/m3	66	72.7	110	70-137	
1,2-Dichloroethane	ug/m3	44	36.9	84	70-136	
1,2-Dichloropropane	ug/m3	51.2	44.4	87	70-136	
1,3,5-Trimethylbenzene	ug/m3	53.5	57.8	108	70-133	
1,3-Dichlorobenzene	ug/m3	63.6	71.8	113	70-137	
1,4-Dichlorobenzene	ug/m3	66	76.9	116	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	39.2	38.9	99	70-145	
2-Butanone (MEK)	ug/m3	33	32.0	97	65-143	
2-Hexanone	ug/m3	45.8	51.9	113	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	45.8	44.2	96	70-135	
Acetone	ug/m3	25.8	20.5	79	59-132	
Benzene	ug/m3	35.1	29.6	84	70-134	
Bromodichloromethane	ug/m3	72.9	69.6	96	70-142	
Bromoform	ug/m3	111	117	105	69-150	
Bromomethane	ug/m3	40.3	34.3	85	61-141	
Carbon disulfide	ug/m3	33.2	23.0	69	66-134	
Carbon tetrachloride	ug/m3	65.2	62.4	96	60-145	
Chlorobenzene	ug/m3	51.5	45.0	87	70-130	
Chloroethane	ug/m3	26.6	26.4	99	65-143	
Chloroform	ug/m3	50.6	44.7	88	70-132	

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10438962

LABORATORY CONTROL SAMPLE: 2989355

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	22.9	18.8	82	58-140	
cis-1,2-Dichloroethene	ug/m3	42.7	37.3	87	70-136	
cis-1,3-Dichloropropene	ug/m3	50.7	51.9	102	70-136	
Cyclohexane	ug/m3	35	33.6	96	70-133	
Dibromochloromethane	ug/m3	90.9	93.2	103	68-149	
Dichlorodifluoromethane	ug/m3	53.8	46.9	87	69-130	
Ethylbenzene	ug/m3	47.7	47.4	99	70-133	
Hexachloro-1,3-butadiene	ug/m3	119	118	99	59-140	
Isopropylbenzene (Cumene)	ug/m3	52	56.5	109	70-133	
Methyl-tert-butyl ether	ug/m3	38.5	33.6	87	70-132	
Methylene Chloride	ug/m3	38.8	31.7	82	67-132	
Naphthalene	ug/m3	58.6	58.2	99	55-136	
Styrene	ug/m3	47.2	50.9	108	70-139	
Tetrachloroethene	ug/m3	73.8	63.8	87	70-133	
Toluene	ug/m3	41.4	36.7	89	70-130	
trans-1,2-Dichloroethene	ug/m3	36.3	33.2	92	70-132	
trans-1,3-Dichloropropene	ug/m3	47.5	50.0	105	70-135	
Trichloroethene	ug/m3	58.4	51.2	88	70-135	
Trichlorofluoromethane	ug/m3	60.5	52.9	87	59-140	
Vinyl chloride	ug/m3	25.7	23.4	91	70-141	
Xylene (Total)	ug/m3	141	135	96	70-138	

SAMPLE DUPLICATE: 2990459

Parameter	Units	10438962001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10438962

SAMPLE DUPLICATE: 2990459

Parameter	Units	10438962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	ND	ND		25	
Benzene	ug/m3	395000	379000	4	25	A3
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	52.4	52.4	0	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	5010	5280	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	621	659	6	25	

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QUALIFIERS

Project: TO15
Pace Project No.: 10438962

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10438962004

[1]	This result is reported from a serial dilution.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO15
Pace Project No.: 10438962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10438962001	**Cell 3**	TO-15	550111		
10438962002	**Cell 5 INF**	TO-15	550111		
10438962003	**Cell 5 AST**	TO-15	550111		
10438962004	**Cell 6**	TO-15	550111		

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AIR: CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fi

WO# : 10438962

10438962

32881

Page: of

Section A
Required Client Information:

Company: EAG
Address: 1000 Sparrows Point Blvd
Suite B2
Email To: JCalenda@enviroanalytics.com
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: James Calenda
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C
Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1050 Des Peres Rd. Suite 303 St. Louis MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other X

Location of Sampling by State: MO

Reporting Units
ug/m³ ___ mg/m³ ___
PPBV ___ PPMV ___
Other ___

Report Level II.___ III.___ IV.___ Other ___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 3	6LC				7/2/18	1300	30	1	1038						X					001
2	Cell 5 INF	6LC				7/6/18	900	28	19	3529						X					002
3	Cell 5 AST	6LC				7/6/18	915	29	0	4244						X					003
4	Cell 6	6LC				7/6/18	1000	29	3	0431						X					004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Jim Walsh - EAG	7/9/18	830	Face	7/11/18	9:45

SAMPLE CONDITIONS

–	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 02May2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.15	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO#: 10438962

PM: NB3 Due Date: 07/18/18

CLIENT: EnviroAnalyt

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 747630082279

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** **Date & Initials of Person Examining Contents:** RG 7/11/18

Type of Ice Received ☐ Blue ☐ Wet ☒ None

			Comments:
Chain of Custody Present?	☒ Yes	☐ No	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	7.
Sufficient Volume?	☒ Yes	☐ No	8.
Correct Containers Used?	☒ Yes	☐ No	9.
-Pace Containers Used?	☒ Yes	☐ No	
Containers Intact?	☒ Yes	☐ No	10.
Media: Air Can Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No	12.

Samples Received: 4 standalone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 3		—	-2	+5					
" 5 MF		—	-20	"					
" 5 AST		—	-0.5	"					
" 6		—	-3	"					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 7/11/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 25, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: TO15
Pace Project No.: 10440446

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: TO15
Pace Project No.: 10440446

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: 2926.01 via A2LA

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SAMPLE SUMMARY

Project: TO15
Pace Project No.: 10440446

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10440446001	**Cell 1**	Air	07/10/18 13:00	07/23/18 09:10
10440446002	**Unused Can #0685**	Air		07/23/18 09:10
10440446003	**Unused Can #3523**	Air		07/23/18 09:10
10440446004	**Unused Can #0663**	Air		07/23/18 09:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TO15
Pace Project No.: 10440446

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10440446001	**Cell 1**	TO-15	MJL	51

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10440446

Date: July 25, 2018

Cell 1 (Lab ID: 10440446001)

- A3: This result is reported from a serial dilution.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10440446

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: July 25, 2018

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 552233

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3000910)
  - 1,2,3-Trimethylbenzene
- Cell 1 (Lab ID: 10440446001)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3001981)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 3000911)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10440446

Sample: Cell 1 **Lab ID: 10440446001** Collected: 07/10/18 13:00 Received: 07/23/18 09:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	1550	643.2		07/24/18 11:42	67-64-1	
Benzene	**23300**	ug/m3	209	643.2		07/24/18 11:42	71-43-2	
Bromodichloromethane	ND	ug/m3	875	643.2		07/24/18 11:42	75-27-4	
Bromoform	ND	ug/m3	1350	643.2		07/24/18 11:42	75-25-2	
Bromomethane	ND	ug/m3	507	643.2		07/24/18 11:42	74-83-9	
2-Butanone (MEK)	ND	ug/m3	1930	643.2		07/24/18 11:42	78-93-3	
Carbon disulfide	ND	ug/m3	407	643.2		07/24/18 11:42	75-15-0	
Carbon tetrachloride	ND	ug/m3	411	643.2		07/24/18 11:42	56-23-5	
Chlorobenzene	ND	ug/m3	602	643.2		07/24/18 11:42	108-90-7	
Chloroethane	ND	ug/m3	345	643.2		07/24/18 11:42	75-00-3	
Chloroform	ND	ug/m3	319	643.2		07/24/18 11:42	67-66-3	
Chloromethane	ND	ug/m3	270	643.2		07/24/18 11:42	74-87-3	
Cyclohexane	ND	ug/m3	450	643.2		07/24/18 11:42	110-82-7	
Dibromochloromethane	ND	ug/m3	1110	643.2		07/24/18 11:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1000	643.2		07/24/18 11:42	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	785	643.2		07/24/18 11:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	785	643.2		07/24/18 11:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	785	643.2		07/24/18 11:42	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	650	643.2		07/24/18 11:42	75-71-8	
1,1-Dichloroethane	ND	ug/m3	529	643.2		07/24/18 11:42	75-34-3	
1,2-Dichloroethane	ND	ug/m3	264	643.2		07/24/18 11:42	107-06-2	
1,1-Dichloroethene	ND	ug/m3	518	643.2		07/24/18 11:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	518	643.2		07/24/18 11:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	518	643.2		07/24/18 11:42	156-60-5	
1,2-Dichloropropane	ND	ug/m3	604	643.2		07/24/18 11:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	594	643.2		07/24/18 11:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	594	643.2		07/24/18 11:42	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	2350	643.2		07/24/18 11:42	123-91-1	
Ethylbenzene	ND	ug/m3	568	643.2		07/24/18 11:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	1400	643.2		07/24/18 11:42	87-68-3	
2-Hexanone	ND	ug/m3	2680	643.2		07/24/18 11:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	1610	643.2		07/24/18 11:42	98-82-8	
Methylene Chloride	ND	ug/m3	2270	643.2		07/24/18 11:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2680	643.2		07/24/18 11:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	2350	643.2		07/24/18 11:42	1634-04-4	
Naphthalene	ND	ug/m3	1710	643.2		07/24/18 11:42	91-20-3	
Styrene	ND	ug/m3	557	643.2		07/24/18 11:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	449	643.2		07/24/18 11:42	79-34-5	
Tetrachloroethene	ND	ug/m3	443	643.2		07/24/18 11:42	127-18-4	
Toluene	**1440**	ug/m3	493	643.2		07/24/18 11:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	2420	643.2		07/24/18 11:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	714	643.2		07/24/18 11:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	357	643.2		07/24/18 11:42	79-00-5	
Trichloroethene	ND	ug/m3	351	643.2		07/24/18 11:42	79-01-6	
Trichlorofluoromethane	ND	ug/m3	733	643.2		07/24/18 11:42	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	1000	643.2		07/24/18 11:42	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	643	643.2		07/24/18 11:42	526-73-8	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10440446

Sample: Cell 1 **Lab ID: 10440446001** Collected: 07/10/18 13:00 Received: 07/23/18 09:10 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	643	643.2		07/24/18 11:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	643	643.2		07/24/18 11:42	108-67-8	
Vinyl chloride	ND	ug/m3	167	643.2		07/24/18 11:42	75-01-4	
Xylene (Total)	ND	ug/m3	1700	643.2		07/24/18 11:42	1330-20-7	

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10440446

QC Batch: 552233
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10440446001

METHOD BLANK: 3000910
Matrix: Air
Associated Lab Samples: 10440446001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	07/24/18 09:59	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	07/24/18 09:59	
1,1,2-Trichloroethane	ug/m3	ND	0.56	07/24/18 09:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	07/24/18 09:59	
1,1-Dichloroethane	ug/m3	ND	0.82	07/24/18 09:59	
1,1-Dichloroethene	ug/m3	ND	0.81	07/24/18 09:59	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	07/24/18 09:59	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	07/24/18 09:59	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	07/24/18 09:59	
1,2-Dibromoethane (EDB)	ug/m3	ND	1.6	07/24/18 09:59	
1,2-Dichlorobenzene	ug/m3	ND	1.2	07/24/18 09:59	
1,2-Dichloroethane	ug/m3	ND	0.41	07/24/18 09:59	
1,2-Dichloropropane	ug/m3	ND	0.94	07/24/18 09:59	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	07/24/18 09:59	
1,3-Dichlorobenzene	ug/m3	ND	1.2	07/24/18 09:59	
1,4-Dichlorobenzene	ug/m3	ND	1.2	07/24/18 09:59	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	07/24/18 09:59	
2-Butanone (MEK)	ug/m3	ND	3.0	07/24/18 09:59	
2-Hexanone	ug/m3	ND	4.2	07/24/18 09:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	07/24/18 09:59	
Acetone	ug/m3	ND	2.4	07/24/18 09:59	
Benzene	ug/m3	ND	0.32	07/24/18 09:59	
Bromodichloromethane	ug/m3	ND	1.4	07/24/18 09:59	
Bromoform	ug/m3	ND	2.1	07/24/18 09:59	
Bromomethane	ug/m3	ND	0.79	07/24/18 09:59	
Carbon disulfide	ug/m3	ND	0.63	07/24/18 09:59	
Carbon tetrachloride	ug/m3	ND	0.64	07/24/18 09:59	
Chlorobenzene	ug/m3	ND	0.94	07/24/18 09:59	
Chloroethane	ug/m3	ND	0.54	07/24/18 09:59	
Chloroform	ug/m3	ND	0.50	07/24/18 09:59	
Chloromethane	ug/m3	ND	0.42	07/24/18 09:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	07/24/18 09:59	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	07/24/18 09:59	
Cyclohexane	ug/m3	ND	0.70	07/24/18 09:59	
Dibromochloromethane	ug/m3	ND	1.7	07/24/18 09:59	
Dichlorodifluoromethane	ug/m3	ND	1.0	07/24/18 09:59	
Ethylbenzene	ug/m3	ND	0.88	07/24/18 09:59	
Hexachloro-1,3-butadiene	ug/m3	ND	2.2	07/24/18 09:59	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	07/24/18 09:59	
Methyl-tert-butyl ether	ug/m3	ND	3.7	07/24/18 09:59	
Methylene Chloride	ug/m3	ND	3.5	07/24/18 09:59	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10440446

METHOD BLANK: 3000910 Matrix: Air
Associated Lab Samples: 10440446001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	07/24/18 09:59	
Styrene	ug/m3	ND	0.87	07/24/18 09:59	
Tetrachloroethene	ug/m3	ND	0.69	07/24/18 09:59	
Toluene	ug/m3	ND	0.77	07/24/18 09:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	07/24/18 09:59	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	07/24/18 09:59	
Trichloroethene	ug/m3	ND	0.55	07/24/18 09:59	
Trichlorofluoromethane	ug/m3	ND	1.1	07/24/18 09:59	
Vinyl chloride	ug/m3	ND	0.26	07/24/18 09:59	
Xylene (Total)	ug/m3	ND	2.6	07/24/18 09:59	

LABORATORY CONTROL SAMPLE: 3000911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.8	99	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	75.7	108	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	56.8	102	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	71.3	91	63-139	
1,1-Dichloroethane	ug/m3	41.1	38.1	93	70-134	
1,1-Dichloroethene	ug/m3	40.3	37.9	94	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	54.1	108	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	66.3	88	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	55.9	112	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	83.2	106	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	67.5	111	70-137	
1,2-Dichloroethane	ug/m3	41.1	39.0	95	70-136	
1,2-Dichloropropane	ug/m3	47	45.5	97	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	52.5	105	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	69.1	113	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	65.6	107	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	90.7	99	70-145	
2-Butanone (MEK)	ug/m3	30	31.1	104	65-143	
2-Hexanone	ug/m3	41.6	44.5	107	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	40.1	96	70-135	
Acetone	ug/m3	121	112	93	59-132	
Benzene	ug/m3	32.5	31.7	98	70-134	
Bromodichloromethane	ug/m3	68.1	68.7	101	70-142	
Bromoform	ug/m3	105	105	100	69-150	
Bromomethane	ug/m3	39.5	41.2	104	61-141	
Carbon disulfide	ug/m3	31.6	32.1	102	66-134	
Carbon tetrachloride	ug/m3	64	59.7	93	60-145	
Chlorobenzene	ug/m3	46.8	47.2	101	70-130	
Chloroethane	ug/m3	26.8	29.2	109	65-143	
Chloroform	ug/m3	49.6	52.0	105	70-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10440446

LABORATORY CONTROL SAMPLE: 3000911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	22.0	105	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	38.8	96	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	47.8	104	70-136	
Cyclohexane	ug/m3	35	32.9	94	70-133	
Dibromochloromethane	ug/m3	86.6	94.2	109	68-149	
Dichlorodifluoromethane	ug/m3	50.3	49.8	99	69-130	
Ethylbenzene	ug/m3	44.1	46.4	105	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	96.3	89	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	52.1	104	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	34.0	93	70-132	
Methylene Chloride	ug/m3	177	150	85	67-132	
Naphthalene	ug/m3	53.3	54.6	103	55-136	
Styrene	ug/m3	43.3	51.2	118	70-139	
Tetrachloroethene	ug/m3	68.9	73.6	107	70-133	
Toluene	ug/m3	38.3	37.7	98	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	40.5	100	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	50.1	109	70-135	
Trichloroethene	ug/m3	54.6	55.9	102	70-135	
Trichlorofluoromethane	ug/m3	57.1	55.1	96	59-140	
Vinyl chloride	ug/m3	26	29.1	112	70-141	
Xylene (Total)	ug/m3	132	135	102	70-138	

SAMPLE DUPLICATE: 3001981

Parameter	Units	10440202004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	1440	1470	2	25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	9.3J		25	
1,1-Dichloroethane	ug/m3	55.0	57.2	4	25	
1,1-Dichloroethene	ug/m3	109	108	1	25	
1,2,3-Trimethylbenzene	ug/m3	ND	9.7J		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	14.1J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	20.9J		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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(612)607-1700

QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10440446

SAMPLE DUPLICATE: 3001981

Parameter	Units	10440202004 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	112	112	1	25	
Benzene	ug/m3	ND	3.3J		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	28.3	28.9	2	25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	272	267	2	25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	18.1	19.2	6	25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	50.6	43.1J		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	125	124	0	25	
Toluene	ug/m3	14.3	14.1	1	25	
trans-1,2-Dichloroethene	ug/m3	21.0	21.6	3	25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	2020	2070	3	25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	ND	ND		25	

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QUALIFIERS

Project: TO15
Pace Project No.: 10440446

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 10440446001

[1] This result is reported from a serial dilution.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO15
Pace Project No.: 10440446

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10440446001	**Cell 1**	TO-15	552233		

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AIR: CHAIN-OF-CUSTODY /

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO# : 10440446

10440446

32831

Page: of

Section A Required Client Information:

Company: EAG
Address: 1000 Sparrows Point Blvd Suite B2
Email To: JCalenda@environanalytics.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Calenda
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1650 Des Peres Rd. Suite 303 St. Louis MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other X

Location of Sampling by State: MO

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information: AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methene)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 1	6C				7/10/18	1300	29	0	1714						X					001
2	Unused																				
3	Unused																				
4	Unused																				
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Gerald Walsh EAG	7/19/18	800	[illegible] PACE	7-23-18	910

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gerald Walsh

SIGNATURE of SAMPLER: Gerald Walsh DATE Signed (MM / DD / YY): 07/19/18

1 ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 02May2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.15	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAC

Project #: WO#: 10440446

PM: NB3 Due Date: 07/30/18

CLIENT: EnviroAnalyt

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 7476 3008 2280

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: **Temp Blank rec:** [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** [ ] G87A9170600254 [X] G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** RG 7/23/18

Type of ice Received [ ] Blue [ ] Wet [X] None

		Comments:
Chain of Custody Present?	[X] Yes [ ] No	1.
Chain of Custody Filled Out?	[X] Yes [ ] No	2.
Chain of Custody Relinquished?	[X] Yes [ ] No	3.
Sampler Name and/or Signature on COC?	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes [ ] No	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes [X] No	6.
Rush Turn Around Time Requested?	[ ] Yes [X] No	7.
Sufficient Volume?	[X] Yes [ ] No	8.
Correct Containers Used?	[X] Yes [ ] No	9.
-Pace Containers Used?	[X] Yes [ ] No	
Contains Intact?	[X] Yes [ ] No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	[X] Yes [ ] No	12.

Samples Received: 4 stand alone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell	1714	—	0	+5					
unused	0685	—	-29	—					
"	3523	—	-29	—					
"	0663	—	-29	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Roberg **Date:** 7/23/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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(612)607-1700

August 20, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: TO15
Pace Project No.: 10443169

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on August 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: TO15
Pace Project No.: 10443169

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: TO15
Pace Project No.: 10443169

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10443169001	**Cell 1**	Air	08/09/18 08:30	08/13/18 09:45
10443169002	**Cell 3**	Air	08/09/18 09:00	08/13/18 09:45
10443169004	**Cell 6**	Air	08/09/18 09:45	08/13/18 09:45
10443169005	**Unused Can 3395**	Air		08/13/18 09:45
10443169006	**Unused Can 3482**	Air		08/13/18 09:45
10443169007	**Unused Can 0560**	Air		08/13/18 09:45
10443169008	**Unused Can 0074**	Air		08/13/18 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: TO15
Pace Project No.: 10443169

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10443169001	**Cell 1**	TO-15	MLS, NCK	51
10443169002	**Cell 3**	TO-15	MLS, NCK	51
10443169004	**Cell 6**	TO-15	MLS, NCK	51

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10443169

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: August 20, 2018

General Information:
3 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 556478

A3: The sample was analyzed by serial dilution.
- Cell 3 (Lab ID: 10443169002)
  - Benzene
- Cell 6 (Lab ID: 10443169004)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Benzene
  - Ethylbenzene
  - Styrene
  - Toluene

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- Cell 6 (Lab ID: 10443169004)
  - Benzene
  - Naphthalene
  - Toluene

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PROJECT NARRATIVE

Project: TO15
Pace Project No.: 10443169

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: August 20, 2018

Analyte Comments:

QC Batch: 556478

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3022069)
  - 1,2,3-Trimethylbenzene
- Cell 1 (Lab ID: 10443169001)
  - 1,2,3-Trimethylbenzene
- Cell 3 (Lab ID: 10443169002)
  - 1,2,3-Trimethylbenzene
- Cell 6 (Lab ID: 10443169004)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3022609)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3022720)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 3022070)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10443169

Sample: Cell 1 **Lab ID: 10443169001** Collected: 08/09/18 08:30 Received: 08/13/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**46.2**	ug/m3	4.8	1.98		08/14/18 03:56	67-64-1	
Benzene	**6140**	ug/m3	20.6	63.52		08/14/18 13:42	71-43-2	
Bromodichloromethane	ND	ug/m3	2.7	1.98		08/14/18 03:56	75-27-4	
Bromoform	ND	ug/m3	10.4	1.98		08/14/18 03:56	75-25-2	
Bromomethane	ND	ug/m3	1.6	1.98		08/14/18 03:56	74-83-9	
2-Butanone (MEK)	ND	ug/m3	5.9	1.98		08/14/18 03:56	78-93-3	
Carbon disulfide	**1.3**	ug/m3	1.3	1.98		08/14/18 03:56	75-15-0	
Carbon tetrachloride	ND	ug/m3	2.5	1.98		08/14/18 03:56	56-23-5	
Chlorobenzene	ND	ug/m3	1.9	1.98		08/14/18 03:56	108-90-7	
Chloroethane	ND	ug/m3	1.1	1.98		08/14/18 03:56	75-00-3	
Chloroform	ND	ug/m3	0.98	1.98		08/14/18 03:56	67-66-3	
Chloromethane	**1.1**	ug/m3	0.83	1.98		08/14/18 03:56	74-87-3	
Cyclohexane	**5.6**	ug/m3	3.5	1.98		08/14/18 03:56	110-82-7	
Dibromochloromethane	ND	ug/m3	3.4	1.98		08/14/18 03:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.5	1.98		08/14/18 03:56	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2.4	1.98		08/14/18 03:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2.4	1.98		08/14/18 03:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.1	1.98		08/14/18 03:56	106-46-7	
Dichlorodifluoromethane	**3.2**	ug/m3	2.0	1.98		08/14/18 03:56	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.6	1.98		08/14/18 03:56	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.81	1.98		08/14/18 03:56	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.6	1.98		08/14/18 03:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.6	1.98		08/14/18 03:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.6	1.98		08/14/18 03:56	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.9	1.98		08/14/18 03:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.8	1.98		08/14/18 03:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.8	1.98		08/14/18 03:56	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	7.2	1.98		08/14/18 03:56	123-91-1	
Ethylbenzene	**5.3**	ug/m3	1.7	1.98		08/14/18 03:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	10.7	1.98		08/14/18 03:56	87-68-3	
2-Hexanone	ND	ug/m3	8.2	1.98		08/14/18 03:56	591-78-6	
Isopropylbenzene (Cumene)	**6.5**	ug/m3	5.0	1.98		08/14/18 03:56	98-82-8	
Methylene Chloride	**471**	ug/m3	7.0	1.98		08/14/18 03:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	8.2	1.98		08/14/18 03:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	7.2	1.98		08/14/18 03:56	1634-04-4	
Naphthalene	ND	ug/m3	5.3	1.98		08/14/18 03:56	91-20-3	
Styrene	ND	ug/m3	1.7	1.98		08/14/18 03:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1.4	1.98		08/14/18 03:56	79-34-5	
Tetrachloroethene	ND	ug/m3	1.4	1.98		08/14/18 03:56	127-18-4	
Toluene	**28.4**	ug/m3	1.5	1.98		08/14/18 03:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	14.9	1.98		08/14/18 03:56	120-82-1	
1,1,1-Trichloroethane	**18.2**	ug/m3	2.2	1.98		08/14/18 03:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1.1	1.98		08/14/18 03:56	79-00-5	
Trichloroethene	ND	ug/m3	1.1	1.98		08/14/18 03:56	79-01-6	
Trichlorofluoromethane	**4.1**	ug/m3	2.3	1.98		08/14/18 03:56	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	3.1	1.98		08/14/18 03:56	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	2.0	1.98		08/14/18 03:56	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10443169

Sample: Cell 1 **Lab ID: 10443169001** Collected: 08/09/18 08:30 Received: 08/13/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	2.0	1.98		08/14/18 03:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2.0	1.98		08/14/18 03:56	108-67-8	
Vinyl chloride	ND	ug/m3	0.51	1.98		08/14/18 03:56	75-01-4	
Xylene (Total)	**33.2**	ug/m3	5.2	1.98		08/14/18 03:56	1330-20-7	

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10443169

Sample: Cell 3 **Lab ID: 10443169002** Collected: 08/09/18 09:00 Received: 08/13/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**20.4**	ug/m3	18.7	7.75		08/14/18 04:30	67-64-1	
Benzene	**11500**	ug/m3	161	496		08/15/18 06:38	71-43-2	A3
Bromodichloromethane	ND	ug/m3	10.5	7.75		08/14/18 04:30	75-27-4	
Bromoform	ND	ug/m3	40.7	7.75		08/14/18 04:30	75-25-2	
Bromomethane	ND	ug/m3	6.1	7.75		08/14/18 04:30	74-83-9	
2-Butanone (MEK)	ND	ug/m3	23.2	7.75		08/14/18 04:30	78-93-3	
Carbon disulfide	ND	ug/m3	4.9	7.75		08/14/18 04:30	75-15-0	
Carbon tetrachloride	ND	ug/m3	9.9	7.75		08/14/18 04:30	56-23-5	
Chlorobenzene	ND	ug/m3	7.3	7.75		08/14/18 04:30	108-90-7	
Chloroethane	ND	ug/m3	4.2	7.75		08/14/18 04:30	75-00-3	
Chloroform	ND	ug/m3	3.8	7.75		08/14/18 04:30	67-66-3	
Chloromethane	ND	ug/m3	3.3	7.75		08/14/18 04:30	74-87-3	
Cyclohexane	ND	ug/m3	13.6	7.75		08/14/18 04:30	110-82-7	
Dibromochloromethane	ND	ug/m3	13.4	7.75		08/14/18 04:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	6.1	7.75		08/14/18 04:30	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	9.5	7.75		08/14/18 04:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	9.5	7.75		08/14/18 04:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	23.7	7.75		08/14/18 04:30	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	7.8	7.75		08/14/18 04:30	75-71-8	
1,1-Dichloroethane	ND	ug/m3	6.4	7.75		08/14/18 04:30	75-34-3	
1,2-Dichloroethane	ND	ug/m3	3.2	7.75		08/14/18 04:30	107-06-2	
1,1-Dichloroethene	ND	ug/m3	6.2	7.75		08/14/18 04:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	6.2	7.75		08/14/18 04:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	6.2	7.75		08/14/18 04:30	156-60-5	
1,2-Dichloropropane	ND	ug/m3	7.3	7.75		08/14/18 04:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	7.2	7.75		08/14/18 04:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	7.2	7.75		08/14/18 04:30	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	28.4	7.75		08/14/18 04:30	123-91-1	
Ethylbenzene	**14.5**	ug/m3	6.8	7.75		08/14/18 04:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	42.0	7.75		08/14/18 04:30	87-68-3	
2-Hexanone	ND	ug/m3	32.2	7.75		08/14/18 04:30	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	19.4	7.75		08/14/18 04:30	98-82-8	
Methylene Chloride	ND	ug/m3	27.4	7.75		08/14/18 04:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	32.2	7.75		08/14/18 04:30	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	28.4	7.75		08/14/18 04:30	1634-04-4	
Naphthalene	ND	ug/m3	20.6	7.75		08/14/18 04:30	91-20-3	
Styrene	ND	ug/m3	6.7	7.75		08/14/18 04:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5.4	7.75		08/14/18 04:30	79-34-5	
Tetrachloroethene	ND	ug/m3	5.3	7.75		08/14/18 04:30	127-18-4	
Toluene	**729**	ug/m3	5.9	7.75		08/14/18 04:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	58.4	7.75		08/14/18 04:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	8.6	7.75		08/14/18 04:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	4.3	7.75		08/14/18 04:30	79-00-5	
Trichloroethene	ND	ug/m3	4.2	7.75		08/14/18 04:30	79-01-6	
Trichlorofluoromethane	ND	ug/m3	8.8	7.75		08/14/18 04:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	12.1	7.75		08/14/18 04:30	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	7.7	7.75		08/14/18 04:30	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10443169

Sample: Cell 3 **Lab ID: 10443169002** Collected: 08/09/18 09:00 Received: 08/13/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	7.7	7.75		08/14/18 04:30	95-63-6	
1,3,5-Trimethylbenzene	**13.1**	ug/m3	7.7	7.75		08/14/18 04:30	108-67-8	
Vinyl chloride	ND	ug/m3	2.0	7.75		08/14/18 04:30	75-01-4	
Xylene (Total)	**282**	ug/m3	20.5	7.75		08/14/18 04:30	1330-20-7	

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10443169

Sample: Cell 6 **Lab ID: 10443169004** Collected: 08/09/18 09:45 Received: 08/13/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	94.0	39		08/14/18 05:38	67-64-1	
Benzene	**988000**	ug/m3	2160	6656		08/15/18 07:12	71-43-2	A3,E
Bromodichloromethane	ND	ug/m3	53.0	39		08/14/18 05:38	75-27-4	
Bromoform	ND	ug/m3	205	39		08/14/18 05:38	75-25-2	
Bromomethane	ND	ug/m3	30.8	39		08/14/18 05:38	74-83-9	
2-Butanone (MEK)	ND	ug/m3	117	39		08/14/18 05:38	78-93-3	
Carbon disulfide	ND	ug/m3	24.7	39		08/14/18 05:38	75-15-0	
Carbon tetrachloride	ND	ug/m3	49.9	39		08/14/18 05:38	56-23-5	
Chlorobenzene	ND	ug/m3	36.5	39		08/14/18 05:38	108-90-7	
Chloroethane	ND	ug/m3	20.9	39		08/14/18 05:38	75-00-3	
Chloroform	ND	ug/m3	19.3	39		08/14/18 05:38	67-66-3	
Chloromethane	ND	ug/m3	16.4	39		08/14/18 05:38	74-87-3	
Cyclohexane	ND	ug/m3	68.2	39		08/14/18 05:38	110-82-7	
Dibromochloromethane	ND	ug/m3	67.5	39		08/14/18 05:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	30.5	39		08/14/18 05:38	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	47.6	39		08/14/18 05:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	47.6	39		08/14/18 05:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	119	39		08/14/18 05:38	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	39.4	39		08/14/18 05:38	75-71-8	
1,1-Dichloroethane	ND	ug/m3	32.1	39		08/14/18 05:38	75-34-3	
1,2-Dichloroethane	ND	ug/m3	16.0	39		08/14/18 05:38	107-06-2	
1,1-Dichloroethene	ND	ug/m3	31.4	39		08/14/18 05:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	31.4	39		08/14/18 05:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	31.4	39		08/14/18 05:38	156-60-5	
1,2-Dichloropropane	ND	ug/m3	36.6	39		08/14/18 05:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	36.0	39		08/14/18 05:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	36.0	39		08/14/18 05:38	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	143	39		08/14/18 05:38	123-91-1	
Ethylbenzene	**32400**	ug/m3	5880	6656		08/15/18 07:12	100-41-4	A3
Hexachloro-1,3-butadiene	ND	ug/m3	211	39		08/14/18 05:38	87-68-3	
2-Hexanone	ND	ug/m3	162	39		08/14/18 05:38	591-78-6	
Isopropylbenzene (Cumene)	**712**	ug/m3	97.5	39		08/14/18 05:38	98-82-8	
Methylene Chloride	ND	ug/m3	138	39		08/14/18 05:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	162	39		08/14/18 05:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	143	39		08/14/18 05:38	1634-04-4	
Naphthalene	**25200**	ug/m3	104	39		08/14/18 05:38	91-20-3	E
Styrene	**24200**	ug/m3	5760	6656		08/15/18 07:12	100-42-5	A3
1,1,2,2-Tetrachloroethane	ND	ug/m3	27.2	39		08/14/18 05:38	79-34-5	
Tetrachloroethene	ND	ug/m3	26.9	39		08/14/18 05:38	127-18-4	
Toluene	**797000**	ug/m3	5100	6656		08/15/18 07:12	108-88-3	A3,E
1,2,4-Trichlorobenzene	ND	ug/m3	294	39		08/14/18 05:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	43.3	39		08/14/18 05:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.6	39		08/14/18 05:38	79-00-5	
Trichloroethene	ND	ug/m3	21.3	39		08/14/18 05:38	79-01-6	
Trichlorofluoromethane	ND	ug/m3	44.5	39		08/14/18 05:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	60.8	39		08/14/18 05:38	76-13-1	
1,2,3-Trimethylbenzene	**2170**	ug/m3	39.0	39		08/14/18 05:38	526-73-8	N2

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ANALYTICAL RESULTS

Project: TO15
Pace Project No.: 10443169

Sample: Cell 6 **Lab ID: 10443169004** Collected: 08/09/18 09:45 Received: 08/13/18 09:45 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**22300**	ug/m3	6650	6656		08/15/18 07:12	95-63-6	A3
1,3,5-Trimethylbenzene	**16900**	ug/m3	6650	6656		08/15/18 07:12	108-67-8	A3
Vinyl chloride	ND	ug/m3	10.1	39		08/14/18 05:38	75-01-4	
Xylene (Total)	**253000**	ug/m3	17600	6656		08/15/18 07:12	1330-20-7	

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QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10443169

QC Batch: 556478 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10443169001, 10443169002, 10443169004

METHOD BLANK: 3022069 Matrix: Air
Associated Lab Samples: 10443169001, 10443169002, 10443169004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	08/13/18 12:24	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.35	08/13/18 12:24	
1,1,2-Trichloroethane	ug/m3	ND	0.28	08/13/18 12:24	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.78	08/13/18 12:24	
1,1-Dichloroethane	ug/m3	ND	0.41	08/13/18 12:24	
1,1-Dichloroethene	ug/m3	ND	0.40	08/13/18 12:24	
1,2,3-Trimethylbenzene	ug/m3	ND	0.50	08/13/18 12:24	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	08/13/18 12:24	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	08/13/18 12:24	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.39	08/13/18 12:24	
1,2-Dichlorobenzene	ug/m3	ND	0.61	08/13/18 12:24	
1,2-Dichloroethane	ug/m3	ND	0.21	08/13/18 12:24	
1,2-Dichloropropane	ug/m3	ND	0.47	08/13/18 12:24	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	08/13/18 12:24	
1,3-Dichlorobenzene	ug/m3	ND	0.61	08/13/18 12:24	
1,4-Dichlorobenzene	ug/m3	ND	1.5	08/13/18 12:24	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	1.8	08/13/18 12:24	
2-Butanone (MEK)	ug/m3	ND	1.5	08/13/18 12:24	
2-Hexanone	ug/m3	ND	2.1	08/13/18 12:24	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	08/13/18 12:24	
Acetone	ug/m3	ND	1.2	08/13/18 12:24	
Benzene	ug/m3	ND	0.16	08/13/18 12:24	
Bromodichloromethane	ug/m3	ND	0.68	08/13/18 12:24	
Bromoform	ug/m3	ND	2.6	08/13/18 12:24	
Bromomethane	ug/m3	ND	0.39	08/13/18 12:24	
Carbon disulfide	ug/m3	ND	0.32	08/13/18 12:24	
Carbon tetrachloride	ug/m3	ND	0.64	08/13/18 12:24	
Chlorobenzene	ug/m3	ND	0.47	08/13/18 12:24	
Chloroethane	ug/m3	ND	0.27	08/13/18 12:24	
Chloroform	ug/m3	ND	0.25	08/13/18 12:24	
Chloromethane	ug/m3	ND	0.21	08/13/18 12:24	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	08/13/18 12:24	
cis-1,3-Dichloropropene	ug/m3	ND	0.46	08/13/18 12:24	
Cyclohexane	ug/m3	ND	0.88	08/13/18 12:24	
Dibromochloromethane	ug/m3	ND	0.86	08/13/18 12:24	
Dichlorodifluoromethane	ug/m3	ND	0.50	08/13/18 12:24	
Ethylbenzene	ug/m3	ND	0.44	08/13/18 12:24	
Hexachloro-1,3-butadiene	ug/m3	ND	2.7	08/13/18 12:24	
Isopropylbenzene (Cumene)	ug/m3	ND	1.2	08/13/18 12:24	
Methyl-tert-butyl ether	ug/m3	ND	1.8	08/13/18 12:24	
Methylene Chloride	ug/m3	ND	1.8	08/13/18 12:24	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10443169

METHOD BLANK: 3022069 Matrix: Air
Associated Lab Samples: 10443169001, 10443169002, 10443169004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	1.3	08/13/18 12:24	
Styrene	ug/m3	ND	0.43	08/13/18 12:24	
Tetrachloroethene	ug/m3	ND	0.34	08/13/18 12:24	
Toluene	ug/m3	ND	0.38	08/13/18 12:24	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	08/13/18 12:24	
trans-1,3-Dichloropropene	ug/m3	ND	0.46	08/13/18 12:24	
Trichloroethene	ug/m3	ND	0.27	08/13/18 12:24	
Trichlorofluoromethane	ug/m3	ND	0.57	08/13/18 12:24	
Vinyl chloride	ug/m3	ND	0.13	08/13/18 12:24	
Xylene (Total)	ug/m3	ND	1.3	08/13/18 12:24	

LABORATORY CONTROL SAMPLE: 3022070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	48.1	87	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	70.6	101	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	54.7	99	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	74.5	96	63-139	
1,1-Dichloroethane	ug/m3	41.1	39.6	96	70-134	
1,1-Dichloroethene	ug/m3	40.3	35.2	87	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	51.0	102	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	66.7	88	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	48.4	97	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	76.2	98	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	64.3	105	70-137	
1,2-Dichloroethane	ug/m3	41.1	35.0	85	70-136	
1,2-Dichloropropane	ug/m3	47	49.0	104	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	49.4	99	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	64.5	106	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	66.2	108	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	100	110	70-145	
2-Butanone (MEK)	ug/m3	30	29.4	98	65-143	
2-Hexanone	ug/m3	41.6	41.5	100	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	42.4	102	70-135	
Acetone	ug/m3	121	94.6	78	59-132	
Benzene	ug/m3	32.5	31.1	96	70-134	
Bromodichloromethane	ug/m3	68.1	62.3	92	70-142	
Bromoform	ug/m3	105	94.5	90	69-150	
Bromomethane	ug/m3	39.5	33.7	85	61-141	
Carbon disulfide	ug/m3	31.6	31.9	101	66-134	
Carbon tetrachloride	ug/m3	64	48.8	76	60-145	
Chlorobenzene	ug/m3	46.8	46.6	100	70-130	
Chloroethane	ug/m3	26.8	27.1	101	65-143	
Chloroform	ug/m3	49.6	44.7	90	70-132	

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(612)607-1700

QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10443169

LABORATORY CONTROL SAMPLE: 3022070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	18.3	87	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	38.9	97	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	45.1	98	70-136	
Cyclohexane	ug/m3	35	37.4	107	70-133	
Dibromochloromethane	ug/m3	86.6	81.4	94	68-149	
Dichlorodifluoromethane	ug/m3	50.3	40.4	80	69-130	
Ethylbenzene	ug/m3	44.1	42.8	97	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	105	97	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	48.3	97	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	34.0	93	70-132	
Methylene Chloride	ug/m3	177	162	92	67-132	
Naphthalene	ug/m3	53.3	49.8	93	55-136	
Styrene	ug/m3	43.3	46.9	108	70-139	
Tetrachloroethene	ug/m3	68.9	66.9	97	70-133	
Toluene	ug/m3	38.3	36.0	94	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	40.6	101	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	43.8	95	70-135	
Trichloroethene	ug/m3	54.6	52.4	96	70-135	
Trichlorofluoromethane	ug/m3	57.1	44.6	78	59-140	
Vinyl chloride	ug/m3	26	23.5	91	70-141	
Xylene (Total)	ug/m3	132	128	96	70-138	

SAMPLE DUPLICATE: 3022609

Parameter	Units	10443172003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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(612)607-1700

QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10443169

SAMPLE DUPLICATE: 3022609

Parameter	Units	10443172003 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	ND	ND		25	
Benzene	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	ND		25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	ND	ND		25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	ND		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 3022720

Parameter	Units	10443172002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	.66J		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	2.0	2.0	3	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	

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(612)607-1700

QUALITY CONTROL DATA

Project: TO15
Pace Project No.: 10443169

SAMPLE DUPLICATE: 3022720

Parameter	Units	10443172002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	2.2J		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	ND		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	13.8	13.3	4	25	
Benzene	ug/m3	6.4	6.5	1	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	1.0		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	4.4	4.1	6	25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	0.88	0.88	0	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	1.8	1.9	7	25	
Ethylbenzene	ug/m3	ND	1.3J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	5.7		25	
Naphthalene	ug/m3	ND	4J		25	
Styrene	ug/m3	2.1	1.9	8	25	
Tetrachloroethene	ug/m3	3.0	3.0	0	25	
Toluene	ug/m3	12.2	11.9	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	1.2	1.0	15	25	
Trichlorofluoromethane	ug/m3	ND	1.1J		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	5.7	5.4	4	25	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: TO15
Pace Project No.: 10443169

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

A3	The sample was analyzed by serial dilution.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TO15
Pace Project No.: 10443169

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10443169001	**Cell 1**	TO-15	556478		
10443169002	**Cell 3**	TO-15	556478		
10443169004	**Cell 6**	TO-15	556478		

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All releva

WO# : 10443169

10443169

36235

Page: of

Section A Required Client Information:

Company: EAG
Address: 1600 Sparrows Point Blvd Suite B2
Email To: JCalenda@enviroanalyticsgroup.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Calenda
Copy To: Ben Hardy
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1030 Des Peres Rd, Suite 303 St. Louis MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 30740

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other X

Location of Sampling by State: MD

Reporting Units: µg/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other ___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 1	6LC		8-9-18	830			28	4	4231						X					001
2	Cell 3	6LC		8-9-18	900			30	5	1668						X					002
3	Cell 5	6LC		8-9-18	915			29	1	50						X					003
4	Cell 6	6LC		8-9-18	945			30	0	2776						X					004
5	unused																				
6	unused																				
7	unused																				
8	unused																				
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Gerald Walsh / EAG	8-9-18	1700	Pace	8/13/18	9:45

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gerald Walsh

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 8/9/18

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 02May2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.15	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAC

Project #: WO#: 10443169

PM: NB3 Due Date: 08/20/18

CLIENT: EnviroAnalyt

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 7476 3008 9115, 9126

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: **Temp Blank rec:** [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** [ ] G87A9170600254 [ ] G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** E.C. 8/13/18

Type of ice Received [ ] Blue [ ] Wet [X] None

			Comments:
Chain of Custody Present?	[X] Yes	[ ] No	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No [ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	7.
Sufficient Volume?	[X] Yes	[ ] No	8.
Correct Containers Used?	[X] Yes	[ ] No	9.
-Pace Containers Used?	[X] Yes	[ ] No	
Containers Intact?	[X] Yes	[ ] No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	[X] Yes	[ ] No	12.

Samples Received: 8 stand alone gauge Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 1		—	-4.5	+5					
" 3		—	-4	"					
" 5		—	-1	"					
" 6		—	+0.5	"					
unused	3395	—	-29	—					
"	3482	—	-26	—					
"	0560	—	-28	—					
"	0074	—	-29	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Lathan Boberg **Date:** 8/13/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

October 08, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: Sparrow's Point
Pace Project No.: 10449793

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: Sparrow's Point
Pace Project No.: 10449793

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Sparrow's Point
Pace Project No.: 10449793

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10449793001	**Cell 1**	Air	09/24/18 11:00	10/02/18 10:00
10449793002	**Cell 5**	Air	09/24/18 10:30	10/02/18 10:00
10449793003	**Unused Can #1556**	Air		10/02/18 10:00
10449793004	**Unused Can #0227**	Air		10/02/18 10:00
10449793005	**Unused Can #3537**	Air		10/02/18 10:00
10449793006	**Unused Can #0688**	Air		10/02/18 10:00
10449793007	**Unused Can #1683**	Air		10/02/18 10:00
10449793008	**Unused Can #0834**	Air		10/02/18 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Sparrow's Point
Pace Project No.: 10449793

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10449793001	**Cell 1**	TO-15	MG2	51
10449793002	**Cell 5**	TO-15	MJL	51

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PROJECT NARRATIVE

Project: Sparrow's Point
Pace Project No.: 10449793

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: October 08, 2018

General Information:
2 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 567525

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- DUP (Lab ID: 3081062)
  - 2-Butanone (MEK)

N2: The lab does not hold NELAC/TNI accreditation for this parameter.
- BLANK (Lab ID: 3079513)
  - 1,2,3-Trimethylbenzene
- Cell 1 (Lab ID: 10449793001)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3081062)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 3079514)
  - 1,2,3-Trimethylbenzene

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PROJECT NARRATIVE

Project: Sparrow's Point
Pace Project No.: 10449793

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: October 08, 2018

Analyte Comments:

QC Batch: 567559

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3079626)
  - 1,2,3-Trimethylbenzene
- Cell 5 (Lab ID: 10449793002)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3080707)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3080708)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 3079627)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Sparrow's Point
Pace Project No.: 10449793

Sample: Cell 1 **Lab ID: 10449793001** Collected: 09/24/18 11:00 Received: 10/02/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**22.1**	ug/m3	3.3	1.39		10/05/18 14:50	67-64-1	
Benzene	**333000**	ug/m3	2310	7117		10/07/18 11:07	71-43-2	
Bromodichloromethane	ND	ug/m3	1.9	1.39		10/05/18 14:50	75-27-4	
Bromoform	ND	ug/m3	7.3	1.39		10/05/18 14:50	75-25-2	
Bromomethane	**6.9**	ug/m3	1.1	1.39		10/05/18 14:50	74-83-9	
2-Butanone (MEK)	**6.4**	ug/m3	4.2	1.39		10/05/18 14:50	78-93-3	
Carbon disulfide	**4.7**	ug/m3	0.88	1.39		10/05/18 14:50	75-15-0	
Carbon tetrachloride	ND	ug/m3	1.8	1.39		10/05/18 14:50	56-23-5	
Chlorobenzene	ND	ug/m3	1.3	1.39		10/05/18 14:50	108-90-7	
Chloroethane	ND	ug/m3	0.75	1.39		10/05/18 14:50	75-00-3	
Chloroform	ND	ug/m3	0.69	1.39		10/05/18 14:50	67-66-3	
Chloromethane	ND	ug/m3	0.58	1.39		10/05/18 14:50	74-87-3	
Cyclohexane	**5.7**	ug/m3	2.4	1.39		10/05/18 14:50	110-82-7	
Dibromochloromethane	ND	ug/m3	2.4	1.39		10/05/18 14:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1.1	1.39		10/05/18 14:50	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	1.7	1.39		10/05/18 14:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	1.7	1.39		10/05/18 14:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.3	1.39		10/05/18 14:50	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.4	1.39		10/05/18 14:50	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1.1	1.39		10/05/18 14:50	75-34-3	
1,2-Dichloroethane	ND	ug/m3	0.57	1.39		10/05/18 14:50	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1.1	1.39		10/05/18 14:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		10/05/18 14:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1.1	1.39		10/05/18 14:50	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1.3	1.39		10/05/18 14:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1.3	1.39		10/05/18 14:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1.3	1.39		10/05/18 14:50	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	5.1	1.39		10/05/18 14:50	123-91-1	
Ethylbenzene	**132**	ug/m3	1.2	1.39		10/05/18 14:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	1.39		10/05/18 14:50	87-68-3	
2-Hexanone	ND	ug/m3	5.8	1.39		10/05/18 14:50	591-78-6	
Isopropylbenzene (Cumene)	**7.4**	ug/m3	3.5	1.39		10/05/18 14:50	98-82-8	
Methylene Chloride	ND	ug/m3	4.9	1.39		10/05/18 14:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	5.8	1.39		10/05/18 14:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	5.1	1.39		10/05/18 14:50	1634-04-4	
Naphthalene	ND	ug/m3	7.4	1.39		10/05/18 14:50	91-20-3	
Styrene	ND	ug/m3	1.2	1.39		10/05/18 14:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	0.97	1.39		10/05/18 14:50	79-34-5	
Tetrachloroethene	ND	ug/m3	0.96	1.39		10/05/18 14:50	127-18-4	
Toluene	**1830**	ug/m3	681	889.6		10/06/18 16:49	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	10.5	1.39		10/05/18 14:50	120-82-1	
1,1,1-Trichloroethane	**44.9**	ug/m3	1.5	1.39		10/05/18 14:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	0.77	1.39		10/05/18 14:50	79-00-5	
Trichloroethene	ND	ug/m3	0.76	1.39		10/05/18 14:50	79-01-6	
Trichlorofluoromethane	**6.5**	ug/m3	1.6	1.39		10/05/18 14:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2.2	1.39		10/05/18 14:50	76-13-1	
1,2,3-Trimethylbenzene	**3.2**	ug/m3	1.4	1.39		10/05/18 14:50	526-73-8	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sparrow's Point
Pace Project No.: 10449793

Sample: Cell 1 **Lab ID: 10449793001** Collected: 09/24/18 11:00 Received: 10/02/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**8.2**	ug/m3	1.4	1.39		10/05/18 14:50	95-63-6	
1,3,5-Trimethylbenzene	**8.7**	ug/m3	1.4	1.39		10/05/18 14:50	108-67-8	
Vinyl chloride	ND	ug/m3	0.36	1.39		10/05/18 14:50	75-01-4	
Xylene (Total)	ND	ug/m3	2360	889.6		10/06/18 16:49	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrow's Point
Pace Project No.: 10449793

Sample: Cell 5 **Lab ID: 10449793002** Collected: 09/24/18 10:30 Received: 10/02/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**201**	ug/m3	104	43.2		10/06/18 05:10	67-64-1	
Benzene	**1010**	ug/m3	14.0	43.2		10/06/18 05:10	71-43-2	
Bromodichloromethane	ND	ug/m3	58.8	43.2		10/06/18 05:10	75-27-4	
Bromoform	ND	ug/m3	227	43.2		10/06/18 05:10	75-25-2	
Bromomethane	ND	ug/m3	34.1	43.2		10/06/18 05:10	74-83-9	
2-Butanone (MEK)	ND	ug/m3	130	43.2		10/06/18 05:10	78-93-3	
Carbon disulfide	ND	ug/m3	27.3	43.2		10/06/18 05:10	75-15-0	
Carbon tetrachloride	ND	ug/m3	55.3	43.2		10/06/18 05:10	56-23-5	
Chlorobenzene	ND	ug/m3	40.4	43.2		10/06/18 05:10	108-90-7	
Chloroethane	ND	ug/m3	23.2	43.2		10/06/18 05:10	75-00-3	
Chloroform	ND	ug/m3	21.4	43.2		10/06/18 05:10	67-66-3	
Chloromethane	ND	ug/m3	18.1	43.2		10/06/18 05:10	74-87-3	
Cyclohexane	ND	ug/m3	75.6	43.2		10/06/18 05:10	110-82-7	
Dibromochloromethane	ND	ug/m3	74.7	43.2		10/06/18 05:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	33.7	43.2		10/06/18 05:10	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	52.7	43.2		10/06/18 05:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	52.7	43.2		10/06/18 05:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	132	43.2		10/06/18 05:10	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	43.6	43.2		10/06/18 05:10	75-71-8	
1,1-Dichloroethane	ND	ug/m3	35.6	43.2		10/06/18 05:10	75-34-3	
1,2-Dichloroethane	ND	ug/m3	17.8	43.2		10/06/18 05:10	107-06-2	
1,1-Dichloroethene	ND	ug/m3	34.8	43.2		10/06/18 05:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	34.8	43.2		10/06/18 05:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	34.8	43.2		10/06/18 05:10	156-60-5	
1,2-Dichloropropane	ND	ug/m3	40.6	43.2		10/06/18 05:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	39.9	43.2		10/06/18 05:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	39.9	43.2		10/06/18 05:10	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	158	43.2		10/06/18 05:10	123-91-1	
Ethylbenzene	**54.7**	ug/m3	38.1	43.2		10/06/18 05:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	234	43.2		10/06/18 05:10	87-68-3	
2-Hexanone	ND	ug/m3	180	43.2		10/06/18 05:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	108	43.2		10/06/18 05:10	98-82-8	
Methylene Chloride	ND	ug/m3	381	43.2		10/06/18 05:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	180	43.2		10/06/18 05:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	158	43.2		10/06/18 05:10	1634-04-4	
Naphthalene	**306**	ug/m3	115	43.2		10/06/18 05:10	91-20-3	
Styrene	**170**	ug/m3	37.4	43.2		10/06/18 05:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	30.2	43.2		10/06/18 05:10	79-34-5	
Tetrachloroethene	ND	ug/m3	29.8	43.2		10/06/18 05:10	127-18-4	
Toluene	**379**	ug/m3	33.1	43.2		10/06/18 05:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	326	43.2		10/06/18 05:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	48.0	43.2		10/06/18 05:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	24.0	43.2		10/06/18 05:10	79-00-5	
Trichloroethene	ND	ug/m3	23.6	43.2		10/06/18 05:10	79-01-6	
Trichlorofluoromethane	ND	ug/m3	49.2	43.2		10/06/18 05:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	67.4	43.2		10/06/18 05:10	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	43.2	43.2		10/06/18 05:10	526-73-8	N2

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ANALYTICAL RESULTS

Project: Sparrow's Point
Pace Project No.: 10449793

Sample: Cell 5 **Lab ID: 10449793002** Collected: 09/24/18 10:30 Received: 10/02/18 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**135**	ug/m3	43.2	43.2		10/06/18 05:10	95-63-6	
1,3,5-Trimethylbenzene	**80.4**	ug/m3	43.2	43.2		10/06/18 05:10	108-67-8	
Vinyl chloride	ND	ug/m3	11.2	43.2		10/06/18 05:10	75-01-4	
Xylene (Total)	**1040**	ug/m3	114	43.2		10/06/18 05:10	1330-20-7	

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QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

QC Batch: 567525
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10449793001

METHOD BLANK: 3079513
Matrix: Air
Associated Lab Samples: 10449793001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	10/05/18 12:30	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.35	10/05/18 12:30	
1,1,2-Trichloroethane	ug/m3	ND	0.28	10/05/18 12:30	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.78	10/05/18 12:30	
1,1-Dichloroethane	ug/m3	ND	0.41	10/05/18 12:30	
1,1-Dichloroethene	ug/m3	ND	0.40	10/05/18 12:30	
1,2,3-Trimethylbenzene	ug/m3	ND	0.50	10/05/18 12:30	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	10/05/18 12:30	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	10/05/18 12:30	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.39	10/05/18 12:30	
1,2-Dichlorobenzene	ug/m3	ND	0.61	10/05/18 12:30	
1,2-Dichloroethane	ug/m3	ND	0.21	10/05/18 12:30	
1,2-Dichloropropane	ug/m3	ND	0.47	10/05/18 12:30	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	10/05/18 12:30	
1,3-Dichlorobenzene	ug/m3	ND	0.61	10/05/18 12:30	
1,4-Dichlorobenzene	ug/m3	ND	1.5	10/05/18 12:30	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	1.8	10/05/18 12:30	
2-Butanone (MEK)	ug/m3	ND	1.5	10/05/18 12:30	
2-Hexanone	ug/m3	ND	2.1	10/05/18 12:30	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	10/05/18 12:30	
Acetone	ug/m3	ND	1.2	10/05/18 12:30	
Benzene	ug/m3	ND	0.16	10/05/18 12:30	
Bromodichloromethane	ug/m3	ND	0.68	10/05/18 12:30	
Bromoform	ug/m3	ND	2.6	10/05/18 12:30	
Bromomethane	ug/m3	ND	0.39	10/05/18 12:30	
Carbon disulfide	ug/m3	ND	0.32	10/05/18 12:30	
Carbon tetrachloride	ug/m3	ND	0.64	10/05/18 12:30	
Chlorobenzene	ug/m3	ND	0.47	10/05/18 12:30	
Chloroethane	ug/m3	ND	0.27	10/05/18 12:30	
Chloroform	ug/m3	ND	0.25	10/05/18 12:30	
Chloromethane	ug/m3	ND	0.21	10/05/18 12:30	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	10/05/18 12:30	
cis-1,3-Dichloropropene	ug/m3	ND	0.46	10/05/18 12:30	
Cyclohexane	ug/m3	ND	0.88	10/05/18 12:30	
Dibromochloromethane	ug/m3	ND	0.86	10/05/18 12:30	
Dichlorodifluoromethane	ug/m3	ND	0.50	10/05/18 12:30	
Ethylbenzene	ug/m3	ND	0.44	10/05/18 12:30	
Hexachloro-1,3-butadiene	ug/m3	ND	2.7	10/05/18 12:30	
Isopropylbenzene (Cumene)	ug/m3	ND	1.2	10/05/18 12:30	
Methyl-tert-butyl ether	ug/m3	ND	1.8	10/05/18 12:30	
Methylene Chloride	ug/m3	ND	1.8	10/05/18 12:30	

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

METHOD BLANK: 3079513 Matrix: Air
Associated Lab Samples: 10449793001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	10/05/18 12:30	
Styrene	ug/m3	ND	0.43	10/05/18 12:30	
Tetrachloroethene	ug/m3	ND	0.34	10/05/18 12:30	
Toluene	ug/m3	ND	0.38	10/05/18 12:30	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	10/05/18 12:30	
trans-1,3-Dichloropropene	ug/m3	ND	0.46	10/05/18 12:30	
Trichloroethene	ug/m3	ND	0.27	10/05/18 12:30	
Trichlorofluoromethane	ug/m3	ND	0.57	10/05/18 12:30	
Vinyl chloride	ug/m3	ND	0.13	10/05/18 12:30	
Xylene (Total)	ug/m3	ND	1.3	10/05/18 12:30	

LABORATORY CONTROL SAMPLE: 3079514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	59.4	107	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	80.5	115	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	56.2	101	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	83.4	107	63-139	
1,1-Dichloroethane	ug/m3	41.1	46.0	112	70-134	
1,1-Dichloroethene	ug/m3	40.3	46.9	116	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	46.2	93	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	64.6	86	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	51.8	104	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	85.3	109	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	61.2	100	70-137	
1,2-Dichloroethane	ug/m3	41.1	48.9	119	70-136	
1,2-Dichloropropane	ug/m3	47	53.1	113	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	54.1	108	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	56.0	92	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	49.5	81	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	117	128	70-145	
2-Butanone (MEK)	ug/m3	30	35.8	119	65-143	
2-Hexanone	ug/m3	41.6	50.9	122	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	53.2	128	70-135	
Acetone	ug/m3	121	127	106	59-132	
Benzene	ug/m3	32.5	34.9	107	70-134	
Bromodichloromethane	ug/m3	68.1	76.8	113	70-142	
Bromoform	ug/m3	105	109	104	69-150	
Bromomethane	ug/m3	39.5	40.2	102	61-141	
Carbon disulfide	ug/m3	31.6	34.8	110	66-134	
Carbon tetrachloride	ug/m3	64	69.1	108	60-145	
Chlorobenzene	ug/m3	46.8	49.5	106	70-130	
Chloroethane	ug/m3	26.8	29.1	109	65-143	
Chloroform	ug/m3	49.6	54.3	109	70-132	

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

LABORATORY CONTROL SAMPLE: 3079514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	25.8	123	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	44.6	111	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	54.5	118	70-136	
Cyclohexane	ug/m3	35	38.7	111	70-133	
Dibromochloromethane	ug/m3	86.6	88.0	102	68-149	
Dichlorodifluoromethane	ug/m3	50.3	52.5	104	69-130	
Ethylbenzene	ug/m3	44.1	47.4	107	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	89.8	83	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	51.7	104	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	41.2	112	70-132	
Methylene Chloride	ug/m3	177	204	116	67-132	
Naphthalene	ug/m3	53.3	47.6	89	55-136	
Styrene	ug/m3	43.3	48.9	113	70-139	
Tetrachloroethene	ug/m3	68.9	67.6	98	70-133	
Toluene	ug/m3	38.3	40.3	105	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	45.2	112	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	55.6	121	70-135	
Trichloroethene	ug/m3	54.6	60.2	110	70-135	
Trichlorofluoromethane	ug/m3	57.1	59.1	104	59-140	
Vinyl chloride	ug/m3	26	29.8	115	70-141	
Xylene (Total)	ug/m3	132	143	108	70-138	

SAMPLE DUPLICATE: 3081062

Parameter	Units	10449788001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.59	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.56	ND		25	
1,1,2-Trichloroethane	ug/m3	<0.48	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.1	ND		25	
1,1-Dichloroethane	ug/m3	<0.43	ND		25	
1,1-Dichloroethene	ug/m3	<0.53	ND		25	
1,2,3-Trimethylbenzene	ug/m3	10.4	10.1	4	25	N2
1,2,4-Trichlorobenzene	ug/m3	7.8J	ND		25	
1,2,4-Trimethylbenzene	ug/m3	19.3	19.1	1	25	
1,2-Dibromoethane (EDB)	ug/m3	<0.70	ND		25	
1,2-Dichlorobenzene	ug/m3	<0.96	ND		25	
1,2-Dichloroethane	ug/m3	<0.29	ND		25	
1,2-Dichloropropane	ug/m3	<0.44	ND		25	
1,3,5-Trimethylbenzene	ug/m3	10.7	11.2	5	25	
1,3-Dichlorobenzene	ug/m3	<1.1	ND		25	
1,4-Dichlorobenzene	ug/m3	4.2J	4.1J		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<1.4	ND		25	
2-Butanone (MEK)	ug/m3	227	224	1	25	E
2-Hexanone	ug/m3	1.7J	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	1.4J	1.4J		25	

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QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

SAMPLE DUPLICATE: 3081062

Parameter	Units	10449788001 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	49.0	48.4	1	25	
Benzene	ug/m3	19.0	19.3	1	25	
Bromodichloromethane	ug/m3	<0.70	ND		25	
Bromoform	ug/m3	<2.7	ND		25	
Bromomethane	ug/m3	<0.44	ND		25	
Carbon disulfide	ug/m3	28.0	27.2	3	25	
Carbon tetrachloride	ug/m3	<0.82	ND		25	
Chlorobenzene	ug/m3	<0.53	ND		25	
Chloroethane	ug/m3	<0.50	ND		25	
Chloroform	ug/m3	0.83J	.88J		25	
Chloromethane	ug/m3	0.79J	ND		25	
cis-1,2-Dichloroethene	ug/m3	<0.42	ND		25	
cis-1,3-Dichloropropene	ug/m3	<0.58	ND		25	
Cyclohexane	ug/m3	2.5J	2.5J		25	
Dibromochloromethane	ug/m3	<1.4	ND		25	
Dichlorodifluoromethane	ug/m3	4.6	5.5	16	25	
Ethylbenzene	ug/m3	5.0	4.8	4	25	
Hexachloro-1,3-butadiene	ug/m3	<3.8	ND		25	
Isopropylbenzene (Cumene)	ug/m3	<0.73	ND		25	
Methyl-tert-butyl ether	ug/m3	<1.3	ND		25	
Methylene Chloride	ug/m3	11.3	11.7	4	25	
Naphthalene	ug/m3	19.6	20.8	6	25	
Styrene	ug/m3	2.0	2.1	7	25	
Tetrachloroethene	ug/m3	3.3	3.1	7	25	
Toluene	ug/m3	40.1	38.1	5	25	
trans-1,2-Dichloroethene	ug/m3	<0.55	ND		25	
trans-1,3-Dichloropropene	ug/m3	<0.84	ND		25	
Trichloroethene	ug/m3	0.92J	.9J		25	
Trichlorofluoromethane	ug/m3	9.0	9.0	0	25	
Vinyl chloride	ug/m3	<0.24	ND		25	
Xylene (Total)	ug/m3	19.2	17.9	7	25	

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QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

QC Batch: 567559
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10449793002

METHOD BLANK: 3079626
Matrix: Air
Associated Lab Samples: 10449793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	1.1	10/05/18 10:57	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.70	10/05/18 10:57	
1,1,2-Trichloroethane	ug/m3	ND	0.56	10/05/18 10:57	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	1.6	10/05/18 10:57	
1,1-Dichloroethane	ug/m3	ND	0.82	10/05/18 10:57	
1,1-Dichloroethene	ug/m3	ND	0.81	10/05/18 10:57	
1,2,3-Trimethylbenzene	ug/m3	ND	1.0	10/05/18 10:57	N2
1,2,4-Trichlorobenzene	ug/m3	ND	7.5	10/05/18 10:57	
1,2,4-Trimethylbenzene	ug/m3	ND	1.0	10/05/18 10:57	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.78	10/05/18 10:57	
1,2-Dichlorobenzene	ug/m3	ND	1.2	10/05/18 10:57	
1,2-Dichloroethane	ug/m3	ND	0.41	10/05/18 10:57	
1,2-Dichloropropane	ug/m3	ND	0.94	10/05/18 10:57	
1,3,5-Trimethylbenzene	ug/m3	ND	1.0	10/05/18 10:57	
1,3-Dichlorobenzene	ug/m3	ND	1.2	10/05/18 10:57	
1,4-Dichlorobenzene	ug/m3	ND	3.1	10/05/18 10:57	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	3.7	10/05/18 10:57	
2-Butanone (MEK)	ug/m3	ND	3.0	10/05/18 10:57	
2-Hexanone	ug/m3	ND	4.2	10/05/18 10:57	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	4.2	10/05/18 10:57	
Acetone	ug/m3	ND	2.4	10/05/18 10:57	
Benzene	ug/m3	ND	0.32	10/05/18 10:57	
Bromodichloromethane	ug/m3	ND	1.4	10/05/18 10:57	
Bromoform	ug/m3	ND	5.2	10/05/18 10:57	
Bromomethane	ug/m3	ND	0.79	10/05/18 10:57	
Carbon disulfide	ug/m3	ND	0.63	10/05/18 10:57	
Carbon tetrachloride	ug/m3	ND	1.3	10/05/18 10:57	
Chlorobenzene	ug/m3	ND	0.94	10/05/18 10:57	
Chloroethane	ug/m3	ND	0.54	10/05/18 10:57	
Chloroform	ug/m3	ND	0.50	10/05/18 10:57	
Chloromethane	ug/m3	ND	0.42	10/05/18 10:57	
cis-1,2-Dichloroethene	ug/m3	ND	0.81	10/05/18 10:57	
cis-1,3-Dichloropropene	ug/m3	ND	0.92	10/05/18 10:57	
Cyclohexane	ug/m3	ND	1.8	10/05/18 10:57	
Dibromochloromethane	ug/m3	ND	1.7	10/05/18 10:57	
Dichlorodifluoromethane	ug/m3	ND	1.0	10/05/18 10:57	
Ethylbenzene	ug/m3	ND	0.88	10/05/18 10:57	
Hexachloro-1,3-butadiene	ug/m3	ND	5.4	10/05/18 10:57	
Isopropylbenzene (Cumene)	ug/m3	ND	2.5	10/05/18 10:57	
Methyl-tert-butyl ether	ug/m3	ND	3.7	10/05/18 10:57	
Methylene Chloride	ug/m3	ND	8.8	10/05/18 10:57	MN

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QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

METHOD BLANK: 3079626 Matrix: Air
Associated Lab Samples: 10449793002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	2.7	10/05/18 10:57	
Styrene	ug/m3	ND	0.87	10/05/18 10:57	
Tetrachloroethene	ug/m3	ND	0.69	10/05/18 10:57	
Toluene	ug/m3	ND	0.77	10/05/18 10:57	
trans-1,2-Dichloroethene	ug/m3	ND	0.81	10/05/18 10:57	
trans-1,3-Dichloropropene	ug/m3	ND	0.92	10/05/18 10:57	
Trichloroethene	ug/m3	ND	0.55	10/05/18 10:57	
Trichlorofluoromethane	ug/m3	ND	1.1	10/05/18 10:57	
Vinyl chloride	ug/m3	ND	0.26	10/05/18 10:57	
Xylene (Total)	ug/m3	ND	2.6	10/05/18 10:57	

LABORATORY CONTROL SAMPLE: 3079627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	63.6	115	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	78.6	113	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	60.9	110	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	89.1	114	63-139	
1,1-Dichloroethane	ug/m3	41.1	47.5	116	70-134	
1,1-Dichloroethene	ug/m3	40.3	46.1	114	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	56.4	113	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	84.0	111	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	56.9	114	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	84.7	108	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	69.3	113	70-137	
1,2-Dichloroethane	ug/m3	41.1	46.6	113	70-136	
1,2-Dichloropropane	ug/m3	47	54.1	115	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	55.0	110	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	69.6	114	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	68.7	112	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	103	113	70-145	
2-Butanone (MEK)	ug/m3	30	29.0	97	65-143	
2-Hexanone	ug/m3	41.6	47.2	113	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	43.0	103	70-135	
Acetone	ug/m3	121	127	105	59-132	
Benzene	ug/m3	32.5	36.1	111	70-134	
Bromodichloromethane	ug/m3	68.1	79.1	116	70-142	
Bromoform	ug/m3	105	123	117	69-150	
Bromomethane	ug/m3	39.5	40.5	103	61-141	
Carbon disulfide	ug/m3	31.6	32.5	103	66-134	
Carbon tetrachloride	ug/m3	64	70.6	110	60-145	
Chlorobenzene	ug/m3	46.8	48.7	104	70-130	
Chloroethane	ug/m3	26.8	31.0	115	65-143	
Chloroform	ug/m3	49.6	57.6	116	70-132	

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QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

LABORATORY CONTROL SAMPLE: 3079627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	23.9	114	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	45.7	113	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	50.7	110	70-136	
Cyclohexane	ug/m3	35	39.9	114	70-133	
Dibromochloromethane	ug/m3	86.6	99.0	114	68-149	
Dichlorodifluoromethane	ug/m3	50.3	50.6	101	69-130	
Ethylbenzene	ug/m3	44.1	45.0	102	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	124	115	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	52.0	104	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	35.1	96	70-132	
Methylene Chloride	ug/m3	177	225	127	67-132	
Naphthalene	ug/m3	53.3	60.9	114	55-136	
Styrene	ug/m3	43.3	47.9	111	70-139	
Tetrachloroethene	ug/m3	68.9	70.6	102	70-133	
Toluene	ug/m3	38.3	39.4	103	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.5	110	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	50.7	110	70-135	
Trichloroethene	ug/m3	54.6	58.6	107	70-135	
Trichlorofluoromethane	ug/m3	57.1	65.0	114	59-140	
Vinyl chloride	ug/m3	26	28.2	109	70-141	
Xylene (Total)	ug/m3	132	135	102	70-138	

SAMPLE DUPLICATE: 3080707

Parameter	Units	10449843001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	1.8	1.7	9	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	3J		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

SAMPLE DUPLICATE: 3080707

Parameter	Units	10449843001 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	19.0	16.5	14	25	
Benzene	ug/m3	1.3	1.3	2	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	1.3J		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	1.2	1.0	14	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	.97J		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	3	25	
Ethylbenzene	ug/m3	ND	.94J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	6.1	6.1	0	25	
Toluene	ug/m3	5.7	5.5	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	0.84	0.96	13	25	
Trichlorofluoromethane	ug/m3	ND	1.5J		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	5.1	4.8	5	25	

SAMPLE DUPLICATE: 3080708

Parameter	Units	10449843002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	1.8	1.7	7	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: Sparrow's Point
Pace Project No.: 10449793

SAMPLE DUPLICATE: 3080708

Parameter	Units	10449843002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	ND	2.5J		25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	14.1	15.4	8	25	
Benzene	ug/m3	1.5	1.5	2	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	1J		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	1.0	0.96	7	25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	2.7	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.9	2.8	1	25	
Ethylbenzene	ug/m3	ND	1J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	ND	ND		25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	ND	ND		25	
Toluene	ug/m3	5.8	5.5	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	0.95	0.88	8	25	
Trichlorofluoromethane	ug/m3	ND	1.8		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	5.1	5.0	2	25	

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QUALIFIERS

Project: Sparrow's Point
Pace Project No.: 10449793

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sparrow's Point
Pace Project No.: 10449793

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10449793001	**Cell 1**	TO-15	567525		
10449793002	**Cell 5**	TO-15	567559		

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AIR: CHAIN-OF-CUST

The Chain-of-Custody is a LEGAL DOCUMENT.

WO# : 10449793

10449793

36671

Page: of

Section A
Required Client Information:

Company: EAG
Address: 1000 Sparrows Point Blvd Suite B2
Email To: JCalenda@enviroanalyticsgroup.com
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: James Calenda
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C
Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1650 Des Peres Rd Suite 303 St. Louis MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 32460

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other X

Location of Sampling by State: MD

Reporting Units
ug/m³ ___ mg/m³ ___
PPBV ___ PPMV ___
Other ___

Report Level II.___ III.___ IV.___ Other ___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 1	tdc		9/24/18	1100			30	2.5	147						X					
2	[illegible]									[illegible]											
3	Cell 5	tdc		9/24/18	1030			25	2	668						X					
4	unused (bottom bolt compromised)									1556											
5	unused																				
6	unused																				
7	unused																				
8	unused																				
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Gerald Walsh / EAG	9/24/18		[illegible] PACE	10-2-18	1000

SAMPLE CONDITIONS

—	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
	Y/N	Y/N	Y/N	
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gerald Walsh

SIGNATURE of SAMPLER: Gerald Walsh

DATE Signed (MM / DD / YY): 9/24/18

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 02May2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.15	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO#: 10449793

PM: NB3 Due Date: 10/09/18

CLIENT: EnviroAnalyt

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 4545 9505 5511 5500

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): X **Corrected Temp (°C):** X **Thermom. Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 10-2-18 AA

Type of ice Received ☐ Blue ☐ Wet ☑ None

			Comments:
Chain of Custody Present?	☑ Yes	☐ No	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	7.
Sufficient Volume?	☑ Yes	☐ No	8.
Correct Containers Used?	☑ Yes	☐ No	9.
-Pace Containers Used?	☑ Yes	☐ No	
Containers Intact?	☑ Yes	☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes	☐ No	12.

Samples Received: Stored alone gauges Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 1		—	-1	+5					
Cell 5		—	-2	"					
unused can	1556	—	-28	—					
"	0227	—	-29	—					
"	3537	—	-27	—					
"	0688	—	-30	—					
"	1683	—	-29	—					
"	0874	—	-27.5	—					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 10/3/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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(612)607-1700

November 06, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: CELL EFFLUENT
Pace Project No.: 10453418

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: CELL EFFLUENT
Pace Project No.: 10453418

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: CELL EFFLUENT
Pace Project No.: 10453418

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10453418001	**CELL-1 Effluent**	Air	10/24/18 10:58	10/29/18 09:15
10453418002	**CELL-5 Effluent**	Air	10/24/18 09:22	10/29/18 09:15

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SAMPLE ANALYTE COUNT

Project: CELL EFFLUENT
Pace Project No.: 10453418

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10453418001	**CELL-1 Effluent**	TO-15	AFV	51
10453418002	**CELL-5 Effluent**	TO-15	AFV	51

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: CELL EFFLUENT
Pace Project No.: 10453418

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: November 06, 2018

General Information:
2 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 572923

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3108583)
  - 1,2,3-Trimethylbenzene
- CELL-1 Effluent (Lab ID: 10453418001)
  - 1,2,3-Trimethylbenzene
- CELL-5 Effluent (Lab ID: 10453418002)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3109977)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3109978)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 3108584)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: CELL EFFLUENT
Pace Project No.: 10453418

Sample: CELL-1 Effluent **Lab ID: 10453418001** Collected: 10/24/18 10:58 Received: 10/29/18 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	91.1	37.8		11/01/18 22:01	67-64-1	
Benzene	**84400**	ug/m3	786	2419		11/02/18 17:10	71-43-2	
Bromodichloromethane	ND	ug/m3	51.4	37.8		11/01/18 22:01	75-27-4	
Bromoform	ND	ug/m3	198	37.8		11/01/18 22:01	75-25-2	
Bromomethane	ND	ug/m3	29.8	37.8		11/01/18 22:01	74-83-9	
2-Butanone (MEK)	ND	ug/m3	113	37.8		11/01/18 22:01	78-93-3	
Carbon disulfide	ND	ug/m3	23.9	37.8		11/01/18 22:01	75-15-0	
Carbon tetrachloride	ND	ug/m3	48.4	37.8		11/01/18 22:01	56-23-5	
Chlorobenzene	ND	ug/m3	35.4	37.8		11/01/18 22:01	108-90-7	
Chloroethane	ND	ug/m3	20.3	37.8		11/01/18 22:01	75-00-3	
Chloroform	ND	ug/m3	18.7	37.8		11/01/18 22:01	67-66-3	
Chloromethane	ND	ug/m3	15.9	37.8		11/01/18 22:01	74-87-3	
Cyclohexane	ND	ug/m3	66.2	37.8		11/01/18 22:01	110-82-7	
Dibromochloromethane	ND	ug/m3	65.4	37.8		11/01/18 22:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	29.5	37.8		11/01/18 22:01	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	46.1	37.8		11/01/18 22:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	46.1	37.8		11/01/18 22:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	116	37.8		11/01/18 22:01	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	38.2	37.8		11/01/18 22:01	75-71-8	
1,1-Dichloroethane	ND	ug/m3	31.1	37.8		11/01/18 22:01	75-34-3	
1,2-Dichloroethane	ND	ug/m3	15.5	37.8		11/01/18 22:01	107-06-2	
1,1-Dichloroethene	ND	ug/m3	30.5	37.8		11/01/18 22:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		11/01/18 22:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		11/01/18 22:01	156-60-5	
1,2-Dichloropropane	ND	ug/m3	35.5	37.8		11/01/18 22:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		11/01/18 22:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		11/01/18 22:01	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	138	37.8		11/01/18 22:01	123-91-1	
Ethylbenzene	ND	ug/m3	33.4	37.8		11/01/18 22:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	205	37.8		11/01/18 22:01	87-68-3	
2-Hexanone	ND	ug/m3	157	37.8		11/01/18 22:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	94.5	37.8		11/01/18 22:01	98-82-8	
Methylene Chloride	ND	ug/m3	133	37.8		11/01/18 22:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	157	37.8		11/01/18 22:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	138	37.8		11/01/18 22:01	1634-04-4	
Naphthalene	ND	ug/m3	101	37.8		11/01/18 22:01	91-20-3	
Styrene	ND	ug/m3	32.7	37.8		11/01/18 22:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	26.4	37.8		11/01/18 22:01	79-34-5	
Tetrachloroethene	ND	ug/m3	26.0	37.8		11/01/18 22:01	127-18-4	
Toluene	**97.4**	ug/m3	29.0	37.8		11/01/18 22:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	285	37.8		11/01/18 22:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	42.0	37.8		11/01/18 22:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.0	37.8		11/01/18 22:01	79-00-5	
Trichloroethene	ND	ug/m3	20.6	37.8		11/01/18 22:01	79-01-6	
Trichlorofluoromethane	ND	ug/m3	43.1	37.8		11/01/18 22:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	59.0	37.8		11/01/18 22:01	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	37.8	37.8		11/01/18 22:01	526-73-8	N2

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ANALYTICAL RESULTS

Project: CELL EFFLUENT
Pace Project No.: 10453418

Sample: CELL-1 Effluent **Lab ID: 10453418001** Collected: 10/24/18 10:58 Received: 10/29/18 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	37.8	37.8		11/01/18 22:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	37.8	37.8		11/01/18 22:01	108-67-8	
Vinyl chloride	ND	ug/m3	9.8	37.8		11/01/18 22:01	75-01-4	
Xylene (Total)	ND	ug/m3	100	37.8		11/01/18 22:01	1330-20-7	

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ANALYTICAL RESULTS

Project: CELL EFFLUENT
Pace Project No.: 10453418

Sample: CELL-5 Effluent **Lab ID: 10453418002** Collected: 10/24/18 09:22 Received: 10/29/18 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	91.1	37.8		11/01/18 22:28	67-64-1	
Benzene	**3660**	ug/m3	12.3	37.8		11/01/18 22:28	71-43-2	
Bromodichloromethane	ND	ug/m3	51.4	37.8		11/01/18 22:28	75-27-4	
Bromoform	ND	ug/m3	198	37.8		11/01/18 22:28	75-25-2	
Bromomethane	ND	ug/m3	29.8	37.8		11/01/18 22:28	74-83-9	
2-Butanone (MEK)	ND	ug/m3	113	37.8		11/01/18 22:28	78-93-3	
Carbon disulfide	ND	ug/m3	23.9	37.8		11/01/18 22:28	75-15-0	
Carbon tetrachloride	ND	ug/m3	48.4	37.8		11/01/18 22:28	56-23-5	
Chlorobenzene	ND	ug/m3	35.4	37.8		11/01/18 22:28	108-90-7	
Chloroethane	ND	ug/m3	20.3	37.8		11/01/18 22:28	75-00-3	
Chloroform	ND	ug/m3	18.7	37.8		11/01/18 22:28	67-66-3	
Chloromethane	ND	ug/m3	15.9	37.8		11/01/18 22:28	74-87-3	
Cyclohexane	ND	ug/m3	66.2	37.8		11/01/18 22:28	110-82-7	
Dibromochloromethane	ND	ug/m3	65.4	37.8		11/01/18 22:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	29.5	37.8		11/01/18 22:28	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	46.1	37.8		11/01/18 22:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	46.1	37.8		11/01/18 22:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	116	37.8		11/01/18 22:28	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	38.2	37.8		11/01/18 22:28	75-71-8	
1,1-Dichloroethane	ND	ug/m3	31.1	37.8		11/01/18 22:28	75-34-3	
1,2-Dichloroethane	ND	ug/m3	15.5	37.8		11/01/18 22:28	107-06-2	
1,1-Dichloroethene	ND	ug/m3	30.5	37.8		11/01/18 22:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		11/01/18 22:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		11/01/18 22:28	156-60-5	
1,2-Dichloropropane	ND	ug/m3	35.5	37.8		11/01/18 22:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		11/01/18 22:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		11/01/18 22:28	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	138	37.8		11/01/18 22:28	123-91-1	
Ethylbenzene	**210**	ug/m3	33.4	37.8		11/01/18 22:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	205	37.8		11/01/18 22:28	87-68-3	
2-Hexanone	ND	ug/m3	157	37.8		11/01/18 22:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	94.5	37.8		11/01/18 22:28	98-82-8	
Methylene Chloride	ND	ug/m3	133	37.8		11/01/18 22:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	157	37.8		11/01/18 22:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	138	37.8		11/01/18 22:28	1634-04-4	
Naphthalene	**21300**	ug/m3	1610	604.8		11/02/18 16:43	91-20-3	
Styrene	**678**	ug/m3	32.7	37.8		11/01/18 22:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	26.4	37.8		11/01/18 22:28	79-34-5	
Tetrachloroethene	ND	ug/m3	26.0	37.8		11/01/18 22:28	127-18-4	
Toluene	**1450**	ug/m3	29.0	37.8		11/01/18 22:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	285	37.8		11/01/18 22:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	42.0	37.8		11/01/18 22:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.0	37.8		11/01/18 22:28	79-00-5	
Trichloroethene	ND	ug/m3	20.6	37.8		11/01/18 22:28	79-01-6	
Trichlorofluoromethane	ND	ug/m3	43.1	37.8		11/01/18 22:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	59.0	37.8		11/01/18 22:28	76-13-1	
1,2,3-Trimethylbenzene	**151**	ug/m3	37.8	37.8		11/01/18 22:28	526-73-8	N2

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ANALYTICAL RESULTS

Project: CELL EFFLUENT
Pace Project No.: 10453418

Sample: CELL-5 Effluent **Lab ID: 10453418002** Collected: 10/24/18 09:22 Received: 10/29/18 09:15 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**607**	ug/m3	37.8	37.8		11/01/18 22:28	95-63-6	
1,3,5-Trimethylbenzene	**328**	ug/m3	37.8	37.8		11/01/18 22:28	108-67-8	
Vinyl chloride	ND	ug/m3	9.8	37.8		11/01/18 22:28	75-01-4	
Xylene (Total)	**3940**	ug/m3	100	37.8		11/01/18 22:28	1330-20-7	

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QUALITY CONTROL DATA

Project: CELL EFFLUENT
Pace Project No.: 10453418

QC Batch: 572923 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10453418001, 10453418002

METHOD BLANK: 3108583 Matrix: Air
Associated Lab Samples: 10453418001, 10453418002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	11/01/18 13:59	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.35	11/01/18 13:59	
1,1,2-Trichloroethane	ug/m3	ND	0.28	11/01/18 13:59	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.78	11/01/18 13:59	
1,1-Dichloroethane	ug/m3	ND	0.41	11/01/18 13:59	
1,1-Dichloroethene	ug/m3	ND	0.40	11/01/18 13:59	
1,2,3-Trimethylbenzene	ug/m3	ND	0.50	11/01/18 13:59	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	11/01/18 13:59	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	11/01/18 13:59	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.39	11/01/18 13:59	
1,2-Dichlorobenzene	ug/m3	ND	0.61	11/01/18 13:59	
1,2-Dichloroethane	ug/m3	ND	0.21	11/01/18 13:59	
1,2-Dichloropropane	ug/m3	ND	0.47	11/01/18 13:59	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	11/01/18 13:59	
1,3-Dichlorobenzene	ug/m3	ND	0.61	11/01/18 13:59	
1,4-Dichlorobenzene	ug/m3	ND	1.5	11/01/18 13:59	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	1.8	11/01/18 13:59	
2-Butanone (MEK)	ug/m3	ND	1.5	11/01/18 13:59	
2-Hexanone	ug/m3	ND	2.1	11/01/18 13:59	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	11/01/18 13:59	
Acetone	ug/m3	ND	1.2	11/01/18 13:59	
Benzene	ug/m3	ND	0.16	11/01/18 13:59	
Bromodichloromethane	ug/m3	ND	0.68	11/01/18 13:59	
Bromoform	ug/m3	ND	2.6	11/01/18 13:59	
Bromomethane	ug/m3	ND	0.39	11/01/18 13:59	
Carbon disulfide	ug/m3	ND	0.32	11/01/18 13:59	
Carbon tetrachloride	ug/m3	ND	0.64	11/01/18 13:59	
Chlorobenzene	ug/m3	ND	0.47	11/01/18 13:59	
Chloroethane	ug/m3	ND	0.27	11/01/18 13:59	
Chloroform	ug/m3	ND	0.25	11/01/18 13:59	
Chloromethane	ug/m3	ND	0.21	11/01/18 13:59	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	11/01/18 13:59	
cis-1,3-Dichloropropene	ug/m3	ND	0.46	11/01/18 13:59	
Cyclohexane	ug/m3	ND	0.88	11/01/18 13:59	
Dibromochloromethane	ug/m3	ND	0.86	11/01/18 13:59	
Dichlorodifluoromethane	ug/m3	ND	0.50	11/01/18 13:59	
Ethylbenzene	ug/m3	ND	0.44	11/01/18 13:59	
Hexachloro-1,3-butadiene	ug/m3	ND	2.7	11/01/18 13:59	
Isopropylbenzene (Cumene)	ug/m3	ND	1.2	11/01/18 13:59	
Methyl-tert-butyl ether	ug/m3	ND	1.8	11/01/18 13:59	
Methylene Chloride	ug/m3	ND	1.8	11/01/18 13:59	

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QUALITY CONTROL DATA

Project: CELL EFFLUENT
Pace Project No.: 10453418

METHOD BLANK: 3108583 Matrix: Air
Associated Lab Samples: 10453418001, 10453418002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	1.3	11/01/18 13:59	
Styrene	ug/m3	ND	0.43	11/01/18 13:59	
Tetrachloroethene	ug/m3	ND	0.34	11/01/18 13:59	
Toluene	ug/m3	ND	0.38	11/01/18 13:59	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	11/01/18 13:59	
trans-1,3-Dichloropropene	ug/m3	ND	0.46	11/01/18 13:59	
Trichloroethene	ug/m3	ND	0.27	11/01/18 13:59	
Trichlorofluoromethane	ug/m3	ND	0.57	11/01/18 13:59	
Vinyl chloride	ug/m3	ND	0.13	11/01/18 13:59	
Xylene (Total)	ug/m3	ND	1.3	11/01/18 13:59	

LABORATORY CONTROL SAMPLE: 3108584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	55.6	98	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	79.4	114	70-146	
1,1,2-Trichloroethane	ug/m3	58.2	61.1	105	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	74.9	88	63-139	
1,1-Dichloroethane	ug/m3	42.4	40.6	96	70-134	
1,1-Dichloroethene	ug/m3	43.5	39.3	90	70-137	
1,2,3-Trimethylbenzene	ug/m3	49.5	53.5	108	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	74.7	85.7	115	60-133	
1,2,4-Trimethylbenzene	ug/m3	53	52.6	99	70-137	
1,2-Dibromoethane (EDB)	ug/m3	83.6	87.0	104	70-140	
1,2-Dichlorobenzene	ug/m3	59.9	63.8	107	70-137	
1,2-Dichloroethane	ug/m3	42.8	41.1	96	70-136	
1,2-Dichloropropane	ug/m3	48.4	51.4	106	70-136	
1,3,5-Trimethylbenzene	ug/m3	53.5	54.2	101	70-133	
1,3-Dichlorobenzene	ug/m3	65.4	64.1	98	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	66.7	102	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	37.7	45.1	119	70-145	
2-Butanone (MEK)	ug/m3	32.4	36.4	112	65-143	
2-Hexanone	ug/m3	42.9	50.7	118	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	42	47.7	113	70-135	
Acetone	ug/m3	26.6	25.1	95	59-132	
Benzene	ug/m3	34.4	32.3	94	70-134	
Bromodichloromethane	ug/m3	69.5	76.6	110	70-142	
Bromoform	ug/m3	97.7	109	112	69-150	
Bromomethane	ug/m3	32.9	39.5	120	61-141	
Carbon disulfide	ug/m3	32.9	33.9	103	66-134	
Carbon tetrachloride	ug/m3	65.9	67.6	103	60-145	
Chlorobenzene	ug/m3	49.6	47.9	97	70-130	
Chloroethane	ug/m3	26.8	29.0	108	65-143	
Chloroform	ug/m3	52.6	48.1	91	70-132	

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QUALITY CONTROL DATA

Project: CELL EFFLUENT
Pace Project No.: 10453418

LABORATORY CONTROL SAMPLE: 3108584

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	22.2	21.1	95	58-140	
cis-1,2-Dichloroethene	ug/m3	41.9	39.8	95	70-136	
cis-1,3-Dichloropropene	ug/m3	48	51.5	107	70-136	
Cyclohexane	ug/m3	35.3	37.6	106	70-133	
Dibromochloromethane	ug/m3	90	105	116	68-149	
Dichlorodifluoromethane	ug/m3	52.8	48.6	92	69-130	
Ethylbenzene	ug/m3	45.5	47.3	104	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	120	111	59-140	
Isopropylbenzene (Cumene)	ug/m3	49.5	51.7	105	70-133	
Methyl-tert-butyl ether	ug/m3	37.4	36.3	97	70-132	
Methylene Chloride	ug/m3	38.1	37.0	97	67-132	
Naphthalene	ug/m3	52.7	61.0	116	55-136	
Styrene	ug/m3	44.2	48.8	110	70-139	
Tetrachloroethene	ug/m3	70.3	70.6	100	70-133	
Toluene	ug/m3	39.4	40.0	102	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	42.4	102	70-132	
trans-1,3-Dichloropropene	ug/m3	44.8	48.5	108	70-135	
Trichloroethene	ug/m3	56.3	55.2	98	70-135	
Trichlorofluoromethane	ug/m3	58.8	57.1	97	59-140	
Vinyl chloride	ug/m3	28.1	26.5	94	70-141	
Xylene (Total)	ug/m3	90	93.6	104	70-138	

SAMPLE DUPLICATE: 3109977

Parameter	Units	60285031001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	ND	ND		25	
1,1-Dichloroethene	ug/m3	ND	ND		25	
1,2,3-Trimethylbenzene	ug/m3	ND	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	ND	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	ND	ND		25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	5.5	6.2	12	25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CELL EFFLUENT
Pace Project No.: 10453418

SAMPLE DUPLICATE: 3109977

Parameter	Units	60285031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	10.5	10.7	2	25	
Benzene	ug/m3	ND	ND		25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	ND	ND		25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	ND	ND		25	
Chloromethane	ug/m3	ND	ND		25	
cis-1,2-Dichloroethene	ug/m3	ND	ND		25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	2.3	2.2	3	25	
Ethylbenzene	ug/m3	ND	ND		25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	ND		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	25.9	25.9	0	25	
Naphthalene	ug/m3	ND	ND		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	1.8	2.0	9	25	
Toluene	ug/m3	5.0	5.2	3	25	
trans-1,2-Dichloroethene	ug/m3	ND	ND		25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	ND	ND		25	
Trichlorofluoromethane	ug/m3	ND	1.1J		25	
Vinyl chloride	ug/m3	ND	ND		25	
Xylene (Total)	ug/m3	ND	ND		25	

SAMPLE DUPLICATE: 3109978

Parameter	Units	10453436001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	ND		25	
1,1,2-Trichloroethane	ug/m3	ND	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	ND		25	
1,1-Dichloroethane	ug/m3	4.4	4.9	10	25	
1,1-Dichloroethene	ug/m3	2.0	2.4	16	25	
1,2,3-Trimethylbenzene	ug/m3	3.0	2.8	7	25	N2
1,2,4-Trichlorobenzene	ug/m3	ND	ND		25	
1,2,4-Trimethylbenzene	ug/m3	9.1	8.7	5	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	ND		25	

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QUALITY CONTROL DATA

Project: CELL EFFLUENT
Pace Project No.: 10453418

SAMPLE DUPLICATE: 3109978

Parameter	Units	10453436001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	ND	ND		25	
1,2-Dichloroethane	ug/m3	ND	ND		25	
1,2-Dichloropropane	ug/m3	ND	ND		25	
1,3,5-Trimethylbenzene	ug/m3	3.1	3.6	16	25	
1,3-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dichlorobenzene	ug/m3	ND	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	ND		25	
2-Butanone (MEK)	ug/m3	36.4	35.0	4	25	
2-Hexanone	ug/m3	ND	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	ND		25	
Acetone	ug/m3	351	306	14	25	
Benzene	ug/m3	8.0	8.0	1	25	
Bromodichloromethane	ug/m3	ND	ND		25	
Bromoform	ug/m3	ND	ND		25	
Bromomethane	ug/m3	ND	ND		25	
Carbon disulfide	ug/m3	73.3	72.6	1	25	
Carbon tetrachloride	ug/m3	ND	ND		25	
Chlorobenzene	ug/m3	ND	ND		25	
Chloroethane	ug/m3	ND	ND		25	
Chloroform	ug/m3	8.8	8.6	3	25	
Chloromethane	ug/m3	1.5	1.6	7	25	
cis-1,2-Dichloroethene	ug/m3	1260	1250	0	25	
cis-1,3-Dichloropropene	ug/m3	ND	ND		25	
Cyclohexane	ug/m3	ND	ND		25	
Dibromochloromethane	ug/m3	ND	ND		25	
Dichlorodifluoromethane	ug/m3	ND	1.9J		25	
Ethylbenzene	ug/m3	9.2	9.3	1	25	
Hexachloro-1,3-butadiene	ug/m3	ND	ND		25	
Isopropylbenzene (Cumene)	ug/m3	ND	2.1J		25	
Methyl-tert-butyl ether	ug/m3	ND	ND		25	
Methylene Chloride	ug/m3	22.2	21.6	3	25	
Naphthalene	ug/m3	ND	4J		25	
Styrene	ug/m3	ND	ND		25	
Tetrachloroethene	ug/m3	1100	1100	1	25	
Toluene	ug/m3	41.9	42.4	1	25	
trans-1,2-Dichloroethene	ug/m3	29.8	29.8	0	25	
trans-1,3-Dichloropropene	ug/m3	ND	ND		25	
Trichloroethene	ug/m3	125	128	2	25	
Trichlorofluoromethane	ug/m3	ND	1J		25	
Vinyl chloride	ug/m3	3340	3370	1	25	
Xylene (Total)	ug/m3	38.3	38.4	0	25	

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QUALIFIERS

Project: CELL EFFLUENT
Pace Project No.: 10453418

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CELL EFFLUENT
Pace Project No.: 10453418

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10453418001	**CELL-1 Effluent**	TO-15	572923		
10453418002	**CELL-5 Effluent**	TO-15	572923		

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All rele

WO#: 10453418

10453418

34026

Page: of

Section A Required Client Information:

Company: EAG
Address: 1600 Sparrow Point Rd Suite B2
Email To: jcalenda@environanal
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Calenda
Copy To:
Purchase Order No.:
Project Name:
Project Number:

Section C Invoice Information:

Attention: Laura Sargent
Company Name: 1515 EAG
Address: Des Peres Rd. Suite 300
Pace Quote Reference: MO. 63131
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other X

Location of Sampling by State: MD

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other ___

Method:

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	Section D Required Client Information: AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	CELL - 1 EFFluent	6LC		10-24-18	1041	10-24-18	1058	29	2	0075							X				001
2	CELL - 5 EFFluent	6LC		10-24-18	0915	10-24-18	0922	30	2	0663							X				002
3	~~[illegible]~~																				
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	10-25-18	0716	[signature] Pace	10/29/18	9:15

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev.01, 03Feb2010

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 11Oct2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.16	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAC

Project #: WO#: 10453418

PM: NB3 Due Date: 11/05/18

CLIENT: EnviroAnalyt

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 4545 9906 3510, 3520

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermom. Used:** ☐ G87A9170600254 ☒ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** RC 10/29/18

Type of ice Received ☐ Blue ☐ Wet ☒ None

			Comments:
Chain of Custody Present?	☒ Yes	☐ No	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	7.
Sufficient Volume?	☒ Yes	☐ No	8.
Correct Containers Used?	☒ Yes	☐ No	9.
-Pace Containers Used?	☒ Yes	☐ No	
Containers Intact?	☒ Yes	☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive			11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes	☐ No	12.

Samples Received: 8 stand alone gauges Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell -1		—	+1	+5					
" -5		—	+1	+1					
unused	0023	—	-30	-30					
	1581	—	-26						
	0726	—	-30						
	0431	—	-28						
	0200	—	-27						
	1723	—	-29						

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 10/29/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 03, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: Sparrows Point IM
Pace Project No.: 10456551

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on November 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: Sparrows Point IM
Pace Project No.: 10456551

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Sparrows Point IM
Pace Project No.: 10456551

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10456551001	**Cell 1 INF**	Air	11/15/18 12:30	11/26/18 09:25
10456551002	**Cell 5 INF**	Air	11/16/18 10:21	11/26/18 09:25
10456551003	**Unused Can #3343**	Air		11/26/18 09:25
10456551004	**Unused Can #2327**	Air		11/26/18 09:25
10456551005	**Unused Can #3554**	Air		11/26/18 09:25
10456551006	**Unused Can #2064**	Air		11/26/18 09:25

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SAMPLE ANALYTE COUNT

Project: Sparrows Point IM
Pace Project No.: 10456551

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10456551001	**Cell 1 INF**	TO-15	NCK	51
10456551002	**Cell 5 INF**	TO-15	NCK	51

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PROJECT NARRATIVE

Project: Sparrows Point IM
Pace Project No.: 10456551

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: December 03, 2018

General Information:
2 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 577747

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- BLANK (Lab ID: 3134035)
  - 1,2,3-Trimethylbenzene
- Cell 1 INF (Lab ID: 10456551001)
  - 1,2,3-Trimethylbenzene
- Cell 5 INF (Lab ID: 10456551002)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3136838)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3136839)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 3134036)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10456551

Sample: Cell 1 INF **Lab ID: 10456551001** Collected: 11/15/18 12:30 Received: 11/26/18 09:25 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	32.3	13.4		11/29/18 01:59	67-64-1	
Benzene	**575000**	ug/m3	2230	6860		12/03/18 13:30	71-43-2	
Bromodichloromethane	ND	ug/m3	18.2	13.4		11/29/18 01:59	75-27-4	
Bromoform	ND	ug/m3	70.4	13.4		11/29/18 01:59	75-25-2	
Bromomethane	ND	ug/m3	10.6	13.4		11/29/18 01:59	74-83-9	
2-Butanone (MEK)	ND	ug/m3	40.2	13.4		11/29/18 01:59	78-93-3	
Carbon disulfide	ND	ug/m3	8.5	13.4		11/29/18 01:59	75-15-0	
Carbon tetrachloride	ND	ug/m3	17.2	13.4		11/29/18 01:59	56-23-5	
Chlorobenzene	ND	ug/m3	12.5	13.4		11/29/18 01:59	108-90-7	
Chloroethane	ND	ug/m3	7.2	13.4		11/29/18 01:59	75-00-3	
Chloroform	ND	ug/m3	6.6	13.4		11/29/18 01:59	67-66-3	
Chloromethane	ND	ug/m3	5.6	13.4		11/29/18 01:59	74-87-3	
Cyclohexane	ND	ug/m3	23.4	13.4		11/29/18 01:59	110-82-7	
Dibromochloromethane	ND	ug/m3	23.2	13.4		11/29/18 01:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	10.5	13.4		11/29/18 01:59	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	16.3	13.4		11/29/18 01:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	16.3	13.4		11/29/18 01:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	41.0	13.4		11/29/18 01:59	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	13.5	13.4		11/29/18 01:59	75-71-8	
1,1-Dichloroethane	ND	ug/m3	11.0	13.4		11/29/18 01:59	75-34-3	
1,2-Dichloroethane	ND	ug/m3	5.5	13.4		11/29/18 01:59	107-06-2	
1,1-Dichloroethene	ND	ug/m3	10.8	13.4		11/29/18 01:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	10.8	13.4		11/29/18 01:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	10.8	13.4		11/29/18 01:59	156-60-5	
1,2-Dichloropropane	ND	ug/m3	12.6	13.4		11/29/18 01:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	12.4	13.4		11/29/18 01:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	12.4	13.4		11/29/18 01:59	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	49.0	13.4		11/29/18 01:59	123-91-1	
Ethylbenzene	**171**	ug/m3	11.8	13.4		11/29/18 01:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	72.6	13.4		11/29/18 01:59	87-68-3	
2-Hexanone	ND	ug/m3	55.7	13.4		11/29/18 01:59	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	33.5	13.4		11/29/18 01:59	98-82-8	
Methylene Chloride	ND	ug/m3	47.3	13.4		11/29/18 01:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	55.7	13.4		11/29/18 01:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	49.0	13.4		11/29/18 01:59	1634-04-4	
Naphthalene	ND	ug/m3	35.6	13.4		11/29/18 01:59	91-20-3	
Styrene	ND	ug/m3	11.6	13.4		11/29/18 01:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	9.4	13.4		11/29/18 01:59	79-34-5	
Tetrachloroethene	ND	ug/m3	9.2	13.4		11/29/18 01:59	127-18-4	
Toluene	**7680**	ug/m3	5250	6860		12/03/18 13:30	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	101	13.4		11/29/18 01:59	120-82-1	
1,1,1-Trichloroethane	**15.4**	ug/m3	14.9	13.4		11/29/18 01:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	7.4	13.4		11/29/18 01:59	79-00-5	
Trichloroethene	ND	ug/m3	7.3	13.4		11/29/18 01:59	79-01-6	
Trichlorofluoromethane	ND	ug/m3	15.3	13.4		11/29/18 01:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	20.9	13.4		11/29/18 01:59	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	13.4	13.4		11/29/18 01:59	526-73-8	N2

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10456551

Sample: Cell 1 INF **Lab ID: 10456551001** Collected: 11/15/18 12:30 Received: 11/26/18 09:25 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	13.4	13.4		11/29/18 01:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	13.4	13.4		11/29/18 01:59	108-67-8	
Vinyl chloride	ND	ug/m3	3.5	13.4		11/29/18 01:59	75-01-4	
Xylene (Total)	**517**	ug/m3	35.5	13.4		11/29/18 01:59	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10456551

Sample: Cell 5 INF **Lab ID: 10456551002** Collected: 11/16/18 10:21 Received: 11/26/18 09:25 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	**41.8**	ug/m3	30.4	12.6		11/29/18 01:31	67-64-1	
Benzene	**741**	ug/m3	4.1	12.6		11/29/18 01:31	71-43-2	
Bromodichloromethane	ND	ug/m3	17.1	12.6		11/29/18 01:31	75-27-4	
Bromoform	ND	ug/m3	66.2	12.6		11/29/18 01:31	75-25-2	
Bromomethane	ND	ug/m3	9.9	12.6		11/29/18 01:31	74-83-9	
2-Butanone (MEK)	ND	ug/m3	37.8	12.6		11/29/18 01:31	78-93-3	
Carbon disulfide	ND	ug/m3	8.0	12.6		11/29/18 01:31	75-15-0	
Carbon tetrachloride	ND	ug/m3	16.1	12.6		11/29/18 01:31	56-23-5	
Chlorobenzene	ND	ug/m3	11.8	12.6		11/29/18 01:31	108-90-7	
Chloroethane	ND	ug/m3	6.8	12.6		11/29/18 01:31	75-00-3	
Chloroform	ND	ug/m3	6.2	12.6		11/29/18 01:31	67-66-3	
Chloromethane	ND	ug/m3	5.3	12.6		11/29/18 01:31	74-87-3	
Cyclohexane	ND	ug/m3	22.0	12.6		11/29/18 01:31	110-82-7	
Dibromochloromethane	ND	ug/m3	21.8	12.6		11/29/18 01:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	9.8	12.6		11/29/18 01:31	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	15.4	12.6		11/29/18 01:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	15.4	12.6		11/29/18 01:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	38.6	12.6		11/29/18 01:31	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	12.7	12.6		11/29/18 01:31	75-71-8	
1,1-Dichloroethane	ND	ug/m3	10.4	12.6		11/29/18 01:31	75-34-3	
1,2-Dichloroethane	ND	ug/m3	5.2	12.6		11/29/18 01:31	107-06-2	
1,1-Dichloroethene	ND	ug/m3	10.2	12.6		11/29/18 01:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	10.2	12.6		11/29/18 01:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	10.2	12.6		11/29/18 01:31	156-60-5	
1,2-Dichloropropane	ND	ug/m3	11.8	12.6		11/29/18 01:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	11.6	12.6		11/29/18 01:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	11.6	12.6		11/29/18 01:31	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	46.1	12.6		11/29/18 01:31	123-91-1	
Ethylbenzene	**44.8**	ug/m3	11.1	12.6		11/29/18 01:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	68.3	12.6		11/29/18 01:31	87-68-3	
2-Hexanone	ND	ug/m3	52.4	12.6		11/29/18 01:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	31.5	12.6		11/29/18 01:31	98-82-8	
Methylene Chloride	ND	ug/m3	44.5	12.6		11/29/18 01:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	52.4	12.6		11/29/18 01:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	46.1	12.6		11/29/18 01:31	1634-04-4	
Naphthalene	**1560**	ug/m3	33.5	12.6		11/29/18 01:31	91-20-3	
Styrene	**107**	ug/m3	10.9	12.6		11/29/18 01:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	8.8	12.6		11/29/18 01:31	79-34-5	
Tetrachloroethene	ND	ug/m3	8.7	12.6		11/29/18 01:31	127-18-4	
Toluene	**246**	ug/m3	9.7	12.6		11/29/18 01:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	95.0	12.6		11/29/18 01:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	14.0	12.6		11/29/18 01:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	7.0	12.6		11/29/18 01:31	79-00-5	
Trichloroethene	ND	ug/m3	6.9	12.6		11/29/18 01:31	79-01-6	
Trichlorofluoromethane	ND	ug/m3	14.4	12.6		11/29/18 01:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	19.7	12.6		11/29/18 01:31	76-13-1	
1,2,3-Trimethylbenzene	**28.8**	ug/m3	12.6	12.6		11/29/18 01:31	526-73-8	N2

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ANALYTICAL RESULTS

Project: Sparrows Point IM
Pace Project No.: 10456551

Sample: Cell 5 INF **Lab ID: 10456551002** Collected: 11/16/18 10:21 Received: 11/26/18 09:25 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**120**	ug/m3	12.6	12.6		11/29/18 01:31	95-63-6	
1,3,5-Trimethylbenzene	**69.1**	ug/m3	12.6	12.6		11/29/18 01:31	108-67-8	
Vinyl chloride	ND	ug/m3	3.3	12.6		11/29/18 01:31	75-01-4	
Xylene (Total)	**885**	ug/m3	33.4	12.6		11/29/18 01:31	1330-20-7	

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QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10456551

QC Batch: 577747 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10456551001, 10456551002

METHOD BLANK: 3134035 Matrix: Air
Associated Lab Samples: 10456551001, 10456551002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	11/28/18 10:29	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.35	11/28/18 10:29	
1,1,2-Trichloroethane	ug/m3	ND	0.28	11/28/18 10:29	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.78	11/28/18 10:29	
1,1-Dichloroethane	ug/m3	ND	0.41	11/28/18 10:29	
1,1-Dichloroethene	ug/m3	ND	0.40	11/28/18 10:29	
1,2,3-Trimethylbenzene	ug/m3	ND	0.50	11/28/18 10:29	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	11/28/18 10:29	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	11/28/18 10:29	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.39	11/28/18 10:29	
1,2-Dichlorobenzene	ug/m3	ND	0.61	11/28/18 10:29	
1,2-Dichloroethane	ug/m3	ND	0.21	11/28/18 10:29	
1,2-Dichloropropane	ug/m3	ND	0.47	11/28/18 10:29	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	11/28/18 10:29	
1,3-Dichlorobenzene	ug/m3	ND	0.61	11/28/18 10:29	
1,4-Dichlorobenzene	ug/m3	ND	1.5	11/28/18 10:29	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	1.8	11/28/18 10:29	
2-Butanone (MEK)	ug/m3	ND	1.5	11/28/18 10:29	
2-Hexanone	ug/m3	ND	2.1	11/28/18 10:29	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	11/28/18 10:29	
Acetone	ug/m3	ND	1.2	11/28/18 10:29	
Benzene	ug/m3	ND	0.16	11/28/18 10:29	
Bromodichloromethane	ug/m3	ND	0.68	11/28/18 10:29	
Bromoform	ug/m3	ND	2.6	11/28/18 10:29	
Bromomethane	ug/m3	ND	0.39	11/28/18 10:29	
Carbon disulfide	ug/m3	ND	0.32	11/28/18 10:29	
Carbon tetrachloride	ug/m3	ND	0.64	11/28/18 10:29	
Chlorobenzene	ug/m3	ND	0.47	11/28/18 10:29	
Chloroethane	ug/m3	ND	0.27	11/28/18 10:29	
Chloroform	ug/m3	ND	0.25	11/28/18 10:29	
Chloromethane	ug/m3	ND	0.21	11/28/18 10:29	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	11/28/18 10:29	
cis-1,3-Dichloropropene	ug/m3	ND	0.46	11/28/18 10:29	
Cyclohexane	ug/m3	ND	0.88	11/28/18 10:29	
Dibromochloromethane	ug/m3	ND	0.86	11/28/18 10:29	
Dichlorodifluoromethane	ug/m3	ND	0.50	11/28/18 10:29	
Ethylbenzene	ug/m3	ND	0.44	11/28/18 10:29	
Hexachloro-1,3-butadiene	ug/m3	ND	2.7	11/28/18 10:29	
Isopropylbenzene (Cumene)	ug/m3	ND	1.2	11/28/18 10:29	
Methyl-tert-butyl ether	ug/m3	ND	1.8	11/28/18 10:29	
Methylene Chloride	ug/m3	ND	1.8	11/28/18 10:29	

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QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10456551

METHOD BLANK: 3134035 Matrix: Air
Associated Lab Samples: 10456551001, 10456551002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	1.3	11/28/18 10:29	
Styrene	ug/m3	ND	0.43	11/28/18 10:29	
Tetrachloroethene	ug/m3	ND	0.34	11/28/18 10:29	
Toluene	ug/m3	ND	0.38	11/28/18 10:29	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	11/28/18 10:29	
trans-1,3-Dichloropropene	ug/m3	ND	0.46	11/28/18 10:29	
Trichloroethene	ug/m3	ND	0.27	11/28/18 10:29	
Trichlorofluoromethane	ug/m3	ND	0.57	11/28/18 10:29	
Vinyl chloride	ug/m3	ND	0.13	11/28/18 10:29	
Xylene (Total)	ug/m3	ND	1.3	11/28/18 10:29	

LABORATORY CONTROL SAMPLE: 3134036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.1	101	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	80.9	116	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	64.1	116	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	76.5	98	63-139	
1,1-Dichloroethane	ug/m3	41.1	41.7	101	70-134	
1,1-Dichloroethene	ug/m3	40.3	40.9	102	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	54.3	109	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	74.2	98	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	54.0	108	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	85.4	109	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	63.9	105	70-137	
1,2-Dichloroethane	ug/m3	41.1	40.2	98	70-136	
1,2-Dichloropropane	ug/m3	47	53.8	115	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	56.4	113	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	64.2	105	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	67.4	110	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	106	115	70-145	
2-Butanone (MEK)	ug/m3	30	34.6	115	65-143	
2-Hexanone	ug/m3	41.6	45.4	109	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	45.9	110	70-135	
Acetone	ug/m3	121	118	98	59-132	
Benzene	ug/m3	32.5	33.3	103	70-134	
Bromodichloromethane	ug/m3	68.1	75.6	111	70-142	
Bromoform	ug/m3	105	109	104	69-150	
Bromomethane	ug/m3	39.5	38.8	98	61-141	
Carbon disulfide	ug/m3	31.6	34.6	109	66-134	
Carbon tetrachloride	ug/m3	64	60.6	95	60-145	
Chlorobenzene	ug/m3	46.8	46.8	100	70-130	
Chloroethane	ug/m3	26.8	28.7	107	65-143	
Chloroform	ug/m3	49.6	49.5	100	70-132	

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QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10456551

LABORATORY CONTROL SAMPLE: 3134036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	20.6	98	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	44.0	109	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	49.5	107	70-136	
Cyclohexane	ug/m3	35	38.8	111	70-133	
Dibromochloromethane	ug/m3	86.6	93.3	108	68-149	
Dichlorodifluoromethane	ug/m3	50.3	46.6	93	69-130	
Ethylbenzene	ug/m3	44.1	47.5	108	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	102	94	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	54.4	109	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	38.2	104	70-132	
Methylene Chloride	ug/m3	177	188	106	67-132	
Naphthalene	ug/m3	53.3	53.9	101	55-136	
Styrene	ug/m3	43.3	45.7	105	70-139	
Tetrachloroethene	ug/m3	68.9	69.3	101	70-133	
Toluene	ug/m3	38.3	41.3	108	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	42.2	105	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	49.8	108	70-135	
Trichloroethene	ug/m3	54.6	58.1	106	70-135	
Trichlorofluoromethane	ug/m3	57.1	55.1	96	59-140	
Vinyl chloride	ug/m3	26	24.9	96	70-141	
Xylene (Total)	ug/m3	132	141	107	70-138	

SAMPLE DUPLICATE: 3136838

Parameter	Units	10456530003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.48	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.45	ND		25	
1,1,2-Trichloroethane	ug/m3	<0.39	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.87	ND		25	
1,1-Dichloroethane	ug/m3	<0.35	ND		25	
1,1-Dichloroethene	ug/m3	<0.42	ND		25	
1,2,3-Trimethylbenzene	ug/m3	<0.62	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	<5.8	ND		25	
1,2,4-Trimethylbenzene	ug/m3	<0.70	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.57	ND		25	
1,2-Dichlorobenzene	ug/m3	<0.77	ND		25	
1,2-Dichloroethane	ug/m3	<0.23	ND		25	
1,2-Dichloropropane	ug/m3	<0.36	ND		25	
1,3,5-Trimethylbenzene	ug/m3	<0.62	ND		25	
1,3-Dichlorobenzene	ug/m3	<0.90	ND		25	
1,4-Dichlorobenzene	ug/m3	<1.6	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<1.2	ND		25	
2-Butanone (MEK)	ug/m3	11.9	12.0	1	25	
2-Hexanone	ug/m3	<1.2	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	ND		25	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10456551

SAMPLE DUPLICATE: 3136838

Parameter	Units	10456530003 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	13.9	13.9	0	25	
Benzene	ug/m3	<0.24	ND		25	
Bromodichloromethane	ug/m3	<0.57	ND		25	
Bromoform	ug/m3	<2.2	ND		25	
Bromomethane	ug/m3	<0.35	ND		25	
Carbon disulfide	ug/m3	<0.34	ND		25	
Carbon tetrachloride	ug/m3	<0.66	ND		25	
Chlorobenzene	ug/m3	<0.43	ND		25	
Chloroethane	ug/m3	<0.40	ND		25	
Chloroform	ug/m3	<0.30	ND		25	
Chloromethane	ug/m3	<0.24	ND		25	
cis-1,2-Dichloroethene	ug/m3	<0.34	ND		25	
cis-1,3-Dichloropropene	ug/m3	<0.47	ND		25	
Cyclohexane	ug/m3	<0.55	ND		25	
Dibromochloromethane	ug/m3	<1.1	ND		25	
Dichlorodifluoromethane	ug/m3	2.3	2.5	9	25	
Ethylbenzene	ug/m3	<0.47	ND		25	
Hexachloro-1,3-butadiene	ug/m3	<3.1	ND		25	
Isopropylbenzene (Cumene)	ug/m3	<0.59	ND		25	
Methyl-tert-butyl ether	ug/m3	<1.0	ND		25	
Methylene Chloride	ug/m3	<1.5	ND		25	
Naphthalene	ug/m3	<2.0	ND		25	
Styrene	ug/m3	<0.53	ND		25	
Tetrachloroethene	ug/m3	<0.49	ND		25	
Toluene	ug/m3	1.2J	ND		25	
trans-1,2-Dichloroethene	ug/m3	<0.44	ND		25	
trans-1,3-Dichloropropene	ug/m3	<0.68	ND		25	
Trichloroethene	ug/m3	<0.40	ND		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl chloride	ug/m3	<0.20	ND		25	
Xylene (Total)	ug/m3	<1.1	ND		25	

SAMPLE DUPLICATE: 3136839

Parameter	Units	10456530004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.48	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.45	ND		25	
1,1,2-Trichloroethane	ug/m3	<0.39	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.87	ND		25	
1,1-Dichloroethane	ug/m3	<0.35	ND		25	
1,1-Dichloroethene	ug/m3	<0.42	ND		25	
1,2,3-Trimethylbenzene	ug/m3	<0.62	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	<5.8	ND		25	
1,2,4-Trimethylbenzene	ug/m3	<0.70	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.57	ND		25	

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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrows Point IM
Pace Project No.: 10456551

SAMPLE DUPLICATE: 3136839

Parameter	Units	10456530004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	<0.77	ND		25	
1,2-Dichloroethane	ug/m3	<0.23	ND		25	
1,2-Dichloropropane	ug/m3	<0.36	ND		25	
1,3,5-Trimethylbenzene	ug/m3	<0.62	ND		25	
1,3-Dichlorobenzene	ug/m3	<0.90	ND		25	
1,4-Dichlorobenzene	ug/m3	<1.6	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<1.2	ND		25	
2-Butanone (MEK)	ug/m3	3.9J	4.1J		25	
2-Hexanone	ug/m3	<1.2	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.80	ND		25	
Acetone	ug/m3	18.9	18.1	4	25	
Benzene	ug/m3	<0.24	ND		25	
Bromodichloromethane	ug/m3	<0.57	ND		25	
Bromoform	ug/m3	<2.2	ND		25	
Bromomethane	ug/m3	<0.35	ND		25	
Carbon disulfide	ug/m3	3.1	3.1	1	25	
Carbon tetrachloride	ug/m3	<0.66	ND		25	
Chlorobenzene	ug/m3	<0.43	ND		25	
Chloroethane	ug/m3	<0.40	ND		25	
Chloroform	ug/m3	<0.30	ND		25	
Chloromethane	ug/m3	1.1	1.1	6	25	
cis-1,2-Dichloroethene	ug/m3	<0.34	ND		25	
cis-1,3-Dichloropropene	ug/m3	<0.47	ND		25	
Cyclohexane	ug/m3	<0.55	ND		25	
Dibromochloromethane	ug/m3	<1.1	ND		25	
Dichlorodifluoromethane	ug/m3	2.4	2.3	1	25	
Ethylbenzene	ug/m3	<0.47	ND		25	
Hexachloro-1,3-butadiene	ug/m3	<3.1	ND		25	
Isopropylbenzene (Cumene)	ug/m3	<0.59	ND		25	
Methyl-tert-butyl ether	ug/m3	<1.0	ND		25	
Methylene Chloride	ug/m3	3.8J	3.9J		25	
Naphthalene	ug/m3	<2.0	ND		25	
Styrene	ug/m3	<0.53	ND		25	
Tetrachloroethene	ug/m3	<0.49	ND		25	
Toluene	ug/m3	1.9	1.8	8	25	
trans-1,2-Dichloroethene	ug/m3	<0.44	ND		25	
trans-1,3-Dichloropropene	ug/m3	<0.68	ND		25	
Trichloroethene	ug/m3	<0.40	ND		25	
Trichlorofluoromethane	ug/m3	1.3J	1.4J		25	
Vinyl chloride	ug/m3	<0.20	ND		25	
Xylene (Total)	ug/m3	<1.1	ND		25	

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(612)607-1700

QUALIFIERS

Project: Sparrows Point IM
Pace Project No.: 10456551

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sparrows Point IM
Pace Project No.: 10456551

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10456551001	**Cell 1 INF**	TO-15	577747		
10456551002	**Cell 5 INF**	TO-15	577747		

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AIR: CHAIN-OF-CUST

The Chain-of-Custody is a LEGAL DOCUMENT.

WO# : 10456551

10456551

34550

Page: 1 of 1

Section A
Required Client Information:

Company: EAG
Address: 1600 Sparrows Point Blvd Suite B2 Sparrows Point, MD 21219
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: James Calenda
Copy To: Josh Burke
Purchase Order No.:
Project Name: Sparrows Point IM
Project Number:

Section C
Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1515 Des Peres Rd Ste 300 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: MD

Reporting Units
ug/m³ ___ mg/m³ ___
PPBV X PPMV ___
Other ___

Report Level II.___ III.___ IV.___ Other___

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 1 INF	6LC				11-15-18	1230	30	3	2024						X					WI
2	Cell 5 INF	6LC				11-16-18	1021	29	1	961						X					002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	11-21-18	0900	Pace	11/26/18	9:25

SAMPLE CONDITIONS

-	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Josh Burke

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 11/21/18

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 11Oct2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.16	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EA6

Project #: **WO#: 10456551**

PM: NB3 **Due Date: 12/03/18**

CLIENT: EnviroAnalyt

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 8105 8330 7109

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Tin Can ☐ Other: Temp Blank rec: ☐ Yes ☑ No

Temp. (TO17 and TO13 samples only) (°C): — Corrected Temp (°C): — Thermom. Used: ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C Correction Factor: — Date & Initials of Person Examining Contents: 11/26/18 CS

Type of Ice Received ☐ Blue ☐ Wet ☑ None

		Comments:
Chain of Custody Present?	☑ Yes ☐ No	1.
Chain of Custody Filled Out?	☑ Yes ☐ No	2.
Chain of Custody Relinquished?	☑ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☑ No	6.
Rush Turn Around Time Requested?	☐ Yes ☑ No	7.
Sufficient Volume?	☑ Yes ☐ No	8.
Correct Containers Used?	☑ Yes ☐ No	9.
-Pace Containers Used?	☑ Yes ☐ No	
Containers Intact?	☑ Yes ☐ No	10.
Media: Air Can Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes ☐ No	12.

Samples Received: FFFT + 3 standalone gauge(s) Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 1			-0.0	+5.0					
" 5			+1.0	"					
unused	3343		-30.0	—					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg Date: 11/26/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

December 24, 2018

James Calenda
Environmental Liability Transfer
1430 Sparrows Point Blvd
Sparrows Point, MD 21219

RE: Project: Sparrow Point
Pace Project No.: 10459041

Dear James Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Nathan Boberg
nathan.boberg@pacelabs.com
(612)360-0728
Project Manager

Enclosures

cc: Josh Burke, Enviro Analytics Group

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CERTIFICATIONS

Project: Sparrow Point
Pace Project No.: 10459041

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: Sparrow Point
Pace Project No.: 10459041

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10459041001	**Cell 5 Inf**	Air	12/13/18 08:18	12/15/18 09:30
10459041002	**Cell 2 Inf**	Air	12/13/18 09:43	12/15/18 09:30
10459041003	**Cell 1 Inf**	Air	12/13/18 09:15	12/15/18 09:30
10459041004	**UNSED PACE3472**	Air		12/15/18 09:30
10459041005	**UNSED PACE3376**	Air		12/15/18 09:30
10459041006	**UNSED PACE3513**	Air		12/15/18 09:30

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SAMPLE ANALYTE COUNT

Project: Sparrow Point
Pace Project No.: 10459041

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10459041001	**Cell 5 Inf**	TO-15	CH1	51
10459041002	**Cell 2 Inf**	TO-15	CH1	51
10459041003	**Cell 1 Inf**	TO-15	CH1	51

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PROJECT NARRATIVE

Project: Sparrow Point
Pace Project No.: 10459041

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: December 24, 2018

General Information:
3 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 582102

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- Cell 5 Inf (Lab ID: 10459041001)
  - Benzene
- DUP (Lab ID: 3156192)
  - Chloroform

N2: The lab does not hold NELAC/TNI accreditation for this parameter.
- BLANK (Lab ID: 3155293)
  - 1,2,3-Trimethylbenzene
- Cell 1 Inf (Lab ID: 10459041003)
  - 1,2,3-Trimethylbenzene
- Cell 2 Inf (Lab ID: 10459041002)
  - 1,2,3-Trimethylbenzene
- Cell 5 Inf (Lab ID: 10459041001)
  - 1,2,3-Trimethylbenzene

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PROJECT NARRATIVE

Project: Sparrow Point
Pace Project No.: 10459041

Method: **TO-15**
Description: TO15 MSV AIR
Client: Enviro Analytics Group
Date: December 24, 2018

Analyte Comments:

QC Batch: 582102

N2: The lab does not hold NELAC/TNI accreditation for this parameter.

- DUP (Lab ID: 3156191)
  - 1,2,3-Trimethylbenzene
- DUP (Lab ID: 3156192)
  - 1,2,3-Trimethylbenzene
- LCS (Lab ID: 3155294)
  - 1,2,3-Trimethylbenzene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: Sparrow Point
Pace Project No.: 10459041

Sample: Cell 5 Inf **Lab ID: 10459041001** Collected: 12/13/18 08:18 Received: 12/15/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	6200	2573		12/21/18 00:29	67-64-1	
Benzene	**5940000**	ug/m3	3340	10291		12/21/18 11:00	71-43-2	E
Bromodichloromethane	ND	ug/m3	3500	2573		12/21/18 00:29	75-27-4	
Bromoform	ND	ug/m3	13500	2573		12/21/18 00:29	75-25-2	
Bromomethane	ND	ug/m3	2030	2573		12/21/18 00:29	74-83-9	
2-Butanone (MEK)	ND	ug/m3	7720	2573		12/21/18 00:29	78-93-3	
Carbon disulfide	ND	ug/m3	1630	2573		12/21/18 00:29	75-15-0	
Carbon tetrachloride	ND	ug/m3	3290	2573		12/21/18 00:29	56-23-5	
Chlorobenzene	ND	ug/m3	2410	2573		12/21/18 00:29	108-90-7	
Chloroethane	ND	ug/m3	1380	2573		12/21/18 00:29	75-00-3	
Chloroform	ND	ug/m3	1280	2573		12/21/18 00:29	67-66-3	
Chloromethane	ND	ug/m3	1080	2573		12/21/18 00:29	74-87-3	
Cyclohexane	ND	ug/m3	4500	2573		12/21/18 00:29	110-82-7	
Dibromochloromethane	ND	ug/m3	4450	2573		12/21/18 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	2010	2573		12/21/18 00:29	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3140	2573		12/21/18 00:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	3140	2573		12/21/18 00:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	7870	2573		12/21/18 00:29	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	2600	2573		12/21/18 00:29	75-71-8	
1,1-Dichloroethane	ND	ug/m3	2120	2573		12/21/18 00:29	75-34-3	
1,2-Dichloroethane	ND	ug/m3	1060	2573		12/21/18 00:29	107-06-2	
1,1-Dichloroethene	ND	ug/m3	2070	2573		12/21/18 00:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	2070	2573		12/21/18 00:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	2070	2573		12/21/18 00:29	156-60-5	
1,2-Dichloropropane	ND	ug/m3	2420	2573		12/21/18 00:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	2370	2573		12/21/18 00:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	2370	2573		12/21/18 00:29	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	9420	2573		12/21/18 00:29	123-91-1	
Ethylbenzene	**10900**	ug/m3	2270	2573		12/21/18 00:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	13900	2573		12/21/18 00:29	87-68-3	
2-Hexanone	ND	ug/m3	10700	2573		12/21/18 00:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	6430	2573		12/21/18 00:29	98-82-8	
Methylene Chloride	ND	ug/m3	9080	2573		12/21/18 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	10700	2573		12/21/18 00:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	9420	2573		12/21/18 00:29	1634-04-4	
Naphthalene	ND	ug/m3	6840	2573		12/21/18 00:29	91-20-3	
Styrene	ND	ug/m3	2230	2573		12/21/18 00:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1800	2573		12/21/18 00:29	79-34-5	
Tetrachloroethene	ND	ug/m3	1770	2573		12/21/18 00:29	127-18-4	
Toluene	**733000**	ug/m3	7880	10291		12/21/18 11:00	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	19400	2573		12/21/18 00:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	2860	2573		12/21/18 00:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	1430	2573		12/21/18 00:29	79-00-5	
Trichloroethene	ND	ug/m3	1400	2573		12/21/18 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/m3	2930	2573		12/21/18 00:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	4010	2573		12/21/18 00:29	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	2570	2573		12/21/18 00:29	526-73-8	N2

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ANALYTICAL RESULTS

Project: Sparrow Point
Pace Project No.: 10459041

Sample: Cell 5 Inf **Lab ID: 10459041001** Collected: 12/13/18 08:18 Received: 12/15/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	2570	2573		12/21/18 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	2570	2573		12/21/18 00:29	108-67-8	
Vinyl chloride	ND	ug/m3	1340	2573		12/21/18 00:29	75-01-4	
Xylene (Total)	**123000**	ug/m3	6820	2573		12/21/18 00:29	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrow Point
Pace Project No.: 10459041

Sample: Cell 2 Inf **Lab ID: 10459041002** Collected: 12/13/18 09:43 Received: 12/15/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	91.1	37.8		12/20/18 23:36	67-64-1	
Benzene	**4730**	ug/m3	131	403		12/21/18 10:33	71-43-2	
Bromodichloromethane	ND	ug/m3	51.4	37.8		12/20/18 23:36	75-27-4	
Bromoform	ND	ug/m3	198	37.8		12/20/18 23:36	75-25-2	
Bromomethane	ND	ug/m3	29.8	37.8		12/20/18 23:36	74-83-9	
2-Butanone (MEK)	ND	ug/m3	113	37.8		12/20/18 23:36	78-93-3	
Carbon disulfide	ND	ug/m3	23.9	37.8		12/20/18 23:36	75-15-0	
Carbon tetrachloride	ND	ug/m3	48.4	37.8		12/20/18 23:36	56-23-5	
Chlorobenzene	ND	ug/m3	35.4	37.8		12/20/18 23:36	108-90-7	
Chloroethane	ND	ug/m3	20.3	37.8		12/20/18 23:36	75-00-3	
Chloroform	ND	ug/m3	18.7	37.8		12/20/18 23:36	67-66-3	
Chloromethane	ND	ug/m3	15.9	37.8		12/20/18 23:36	74-87-3	
Cyclohexane	ND	ug/m3	66.2	37.8		12/20/18 23:36	110-82-7	
Dibromochloromethane	ND	ug/m3	65.4	37.8		12/20/18 23:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	29.5	37.8		12/20/18 23:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	46.1	37.8		12/20/18 23:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	46.1	37.8		12/20/18 23:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	116	37.8		12/20/18 23:36	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	38.2	37.8		12/20/18 23:36	75-71-8	
1,1-Dichloroethane	ND	ug/m3	31.1	37.8		12/20/18 23:36	75-34-3	
1,2-Dichloroethane	ND	ug/m3	15.5	37.8		12/20/18 23:36	107-06-2	
1,1-Dichloroethene	ND	ug/m3	30.5	37.8		12/20/18 23:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		12/20/18 23:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	30.5	37.8		12/20/18 23:36	156-60-5	
1,2-Dichloropropane	ND	ug/m3	35.5	37.8		12/20/18 23:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		12/20/18 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	34.9	37.8		12/20/18 23:36	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	138	37.8		12/20/18 23:36	123-91-1	
Ethylbenzene	**176**	ug/m3	33.4	37.8		12/20/18 23:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	205	37.8		12/20/18 23:36	87-68-3	
2-Hexanone	ND	ug/m3	157	37.8		12/20/18 23:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	94.5	37.8		12/20/18 23:36	98-82-8	
Methylene Chloride	ND	ug/m3	133	37.8		12/20/18 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	157	37.8		12/20/18 23:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	138	37.8		12/20/18 23:36	1634-04-4	
Naphthalene	**1060**	ug/m3	101	37.8		12/20/18 23:36	91-20-3	
Styrene	**365**	ug/m3	32.7	37.8		12/20/18 23:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	26.4	37.8		12/20/18 23:36	79-34-5	
Tetrachloroethene	**97.4**	ug/m3	26.0	37.8		12/20/18 23:36	127-18-4	
Toluene	**1440**	ug/m3	29.0	37.8		12/20/18 23:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	285	37.8		12/20/18 23:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	42.0	37.8		12/20/18 23:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	21.0	37.8		12/20/18 23:36	79-00-5	
Trichloroethene	ND	ug/m3	20.6	37.8		12/20/18 23:36	79-01-6	
Trichlorofluoromethane	ND	ug/m3	43.1	37.8		12/20/18 23:36	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	59.0	37.8		12/20/18 23:36	76-13-1	
1,2,3-Trimethylbenzene	**55.8**	ug/m3	37.8	37.8		12/20/18 23:36	526-73-8	N2

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ANALYTICAL RESULTS

Project: Sparrow Point
Pace Project No.: 10459041

Sample: Cell 2 Inf **Lab ID: 10459041002** Collected: 12/13/18 09:43 Received: 12/15/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	**226**	ug/m3	37.8	37.8		12/20/18 23:36	95-63-6	
1,3,5-Trimethylbenzene	**146**	ug/m3	37.8	37.8		12/20/18 23:36	108-67-8	
Vinyl chloride	ND	ug/m3	19.7	37.8		12/20/18 23:36	75-01-4	
Xylene (Total)	**2900**	ug/m3	100	37.8		12/20/18 23:36	1330-20-7	

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ANALYTICAL RESULTS

Project: Sparrow Point
Pace Project No.: 10459041

Sample: Cell 1 Inf **Lab ID: 10459041003** Collected: 12/13/18 09:15 Received: 12/15/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
Acetone	ND	ug/m3	4010	1664		12/21/18 00:02	67-64-1	
Benzene	**78100**	ug/m3	541	1664		12/21/18 00:02	71-43-2	
Bromodichloromethane	ND	ug/m3	2260	1664		12/21/18 00:02	75-27-4	
Bromoform	ND	ug/m3	8740	1664		12/21/18 00:02	75-25-2	
Bromomethane	ND	ug/m3	1310	1664		12/21/18 00:02	74-83-9	
2-Butanone (MEK)	ND	ug/m3	4990	1664		12/21/18 00:02	78-93-3	
Carbon disulfide	ND	ug/m3	1050	1664		12/21/18 00:02	75-15-0	
Carbon tetrachloride	ND	ug/m3	2130	1664		12/21/18 00:02	56-23-5	
Chlorobenzene	ND	ug/m3	1560	1664		12/21/18 00:02	108-90-7	
Chloroethane	ND	ug/m3	892	1664		12/21/18 00:02	75-00-3	
Chloroform	ND	ug/m3	825	1664		12/21/18 00:02	67-66-3	
Chloromethane	ND	ug/m3	699	1664		12/21/18 00:02	74-87-3	
Cyclohexane	ND	ug/m3	2910	1664		12/21/18 00:02	110-82-7	
Dibromochloromethane	ND	ug/m3	2880	1664		12/21/18 00:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/m3	1300	1664		12/21/18 00:02	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	2030	1664		12/21/18 00:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/m3	2030	1664		12/21/18 00:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	5090	1664		12/21/18 00:02	106-46-7	
Dichlorodifluoromethane	ND	ug/m3	1680	1664		12/21/18 00:02	75-71-8	
1,1-Dichloroethane	ND	ug/m3	1370	1664		12/21/18 00:02	75-34-3	
1,2-Dichloroethane	ND	ug/m3	684	1664		12/21/18 00:02	107-06-2	
1,1-Dichloroethene	ND	ug/m3	1340	1664		12/21/18 00:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/m3	1340	1664		12/21/18 00:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/m3	1340	1664		12/21/18 00:02	156-60-5	
1,2-Dichloropropane	ND	ug/m3	1560	1664		12/21/18 00:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/m3	1540	1664		12/21/18 00:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/m3	1540	1664		12/21/18 00:02	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	6090	1664		12/21/18 00:02	123-91-1	
Ethylbenzene	ND	ug/m3	1470	1664		12/21/18 00:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/m3	9020	1664		12/21/18 00:02	87-68-3	
2-Hexanone	ND	ug/m3	6920	1664		12/21/18 00:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/m3	4160	1664		12/21/18 00:02	98-82-8	
Methylene Chloride	ND	ug/m3	5870	1664		12/21/18 00:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	6920	1664		12/21/18 00:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/m3	6090	1664		12/21/18 00:02	1634-04-4	
Naphthalene	ND	ug/m3	4430	1664		12/21/18 00:02	91-20-3	
Styrene	ND	ug/m3	1440	1664		12/21/18 00:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/m3	1160	1664		12/21/18 00:02	79-34-5	
Tetrachloroethene	ND	ug/m3	1150	1664		12/21/18 00:02	127-18-4	
Toluene	ND	ug/m3	1270	1664		12/21/18 00:02	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/m3	12500	1664		12/21/18 00:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/m3	1850	1664		12/21/18 00:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/m3	924	1664		12/21/18 00:02	79-00-5	
Trichloroethene	ND	ug/m3	909	1664		12/21/18 00:02	79-01-6	
Trichlorofluoromethane	ND	ug/m3	1900	1664		12/21/18 00:02	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	2600	1664		12/21/18 00:02	76-13-1	
1,2,3-Trimethylbenzene	ND	ug/m3	1660	1664		12/21/18 00:02	526-73-8	N2

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ANALYTICAL RESULTS

Project: Sparrow Point
Pace Project No.: 10459041

Sample: Cell 1 Inf **Lab ID: 10459041003** Collected: 12/13/18 09:15 Received: 12/15/18 09:30 Matrix: Air

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15							
1,2,4-Trimethylbenzene	ND	ug/m3	1660	1664		12/21/18 00:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/m3	1660	1664		12/21/18 00:02	108-67-8	
Vinyl chloride	ND	ug/m3	865	1664		12/21/18 00:02	75-01-4	
Xylene (Total)	ND	ug/m3	4410	1664		12/21/18 00:02	1330-20-7	

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QUALITY CONTROL DATA

Project: Sparrow Point
Pace Project No.: 10459041

QC Batch: 582102 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10459041001, 10459041002, 10459041003

METHOD BLANK: 3155293 Matrix: Air
Associated Lab Samples: 10459041001, 10459041002, 10459041003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	0.56	12/20/18 10:57	
1,1,2,2-Tetrachloroethane	ug/m3	ND	0.35	12/20/18 10:57	
1,1,2-Trichloroethane	ug/m3	ND	0.28	12/20/18 10:57	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	0.78	12/20/18 10:57	
1,1-Dichloroethane	ug/m3	ND	0.41	12/20/18 10:57	
1,1-Dichloroethene	ug/m3	ND	0.40	12/20/18 10:57	
1,2,3-Trimethylbenzene	ug/m3	ND	0.50	12/20/18 10:57	N2
1,2,4-Trichlorobenzene	ug/m3	ND	3.8	12/20/18 10:57	
1,2,4-Trimethylbenzene	ug/m3	ND	0.50	12/20/18 10:57	
1,2-Dibromoethane (EDB)	ug/m3	ND	0.39	12/20/18 10:57	
1,2-Dichlorobenzene	ug/m3	ND	0.61	12/20/18 10:57	
1,2-Dichloroethane	ug/m3	ND	0.21	12/20/18 10:57	
1,2-Dichloropropane	ug/m3	ND	0.47	12/20/18 10:57	
1,3,5-Trimethylbenzene	ug/m3	ND	0.50	12/20/18 10:57	
1,3-Dichlorobenzene	ug/m3	ND	0.61	12/20/18 10:57	
1,4-Dichlorobenzene	ug/m3	ND	1.5	12/20/18 10:57	
1,4-Dioxane (p-Dioxane)	ug/m3	ND	1.8	12/20/18 10:57	
2-Butanone (MEK)	ug/m3	ND	1.5	12/20/18 10:57	
2-Hexanone	ug/m3	ND	2.1	12/20/18 10:57	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	2.1	12/20/18 10:57	
Acetone	ug/m3	ND	1.2	12/20/18 10:57	
Benzene	ug/m3	ND	0.16	12/20/18 10:57	
Bromodichloromethane	ug/m3	ND	0.68	12/20/18 10:57	
Bromoform	ug/m3	ND	2.6	12/20/18 10:57	
Bromomethane	ug/m3	ND	0.39	12/20/18 10:57	
Carbon disulfide	ug/m3	ND	0.32	12/20/18 10:57	
Carbon tetrachloride	ug/m3	ND	0.64	12/20/18 10:57	
Chlorobenzene	ug/m3	ND	0.47	12/20/18 10:57	
Chloroethane	ug/m3	ND	0.27	12/20/18 10:57	
Chloroform	ug/m3	ND	0.25	12/20/18 10:57	
Chloromethane	ug/m3	ND	0.21	12/20/18 10:57	
cis-1,2-Dichloroethene	ug/m3	ND	0.40	12/20/18 10:57	
cis-1,3-Dichloropropene	ug/m3	ND	0.46	12/20/18 10:57	
Cyclohexane	ug/m3	ND	0.88	12/20/18 10:57	
Dibromochloromethane	ug/m3	ND	0.86	12/20/18 10:57	
Dichlorodifluoromethane	ug/m3	ND	0.50	12/20/18 10:57	
Ethylbenzene	ug/m3	ND	0.44	12/20/18 10:57	
Hexachloro-1,3-butadiene	ug/m3	ND	2.7	12/20/18 10:57	
Isopropylbenzene (Cumene)	ug/m3	ND	1.2	12/20/18 10:57	
Methyl-tert-butyl ether	ug/m3	ND	1.8	12/20/18 10:57	
Methylene Chloride	ug/m3	ND	1.8	12/20/18 10:57	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Sparrow Point
Pace Project No.: 10459041

METHOD BLANK: 3155293 Matrix: Air
Associated Lab Samples: 10459041001, 10459041002, 10459041003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Naphthalene	ug/m3	ND	1.3	12/20/18 10:57	
Styrene	ug/m3	ND	0.43	12/20/18 10:57	
Tetrachloroethene	ug/m3	ND	0.34	12/20/18 10:57	
Toluene	ug/m3	ND	0.38	12/20/18 10:57	
trans-1,2-Dichloroethene	ug/m3	ND	0.40	12/20/18 10:57	
trans-1,3-Dichloropropene	ug/m3	ND	0.46	12/20/18 10:57	
Trichloroethene	ug/m3	ND	0.27	12/20/18 10:57	
Trichlorofluoromethane	ug/m3	ND	0.57	12/20/18 10:57	
Vinyl chloride	ug/m3	ND	0.26	12/20/18 10:57	
Xylene (Total)	ug/m3	ND	1.3	12/20/18 10:57	

LABORATORY CONTROL SAMPLE: 3155294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	54.6	98	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	68.9	99	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	56.5	102	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	71.9	92	63-139	
1,1-Dichloroethane	ug/m3	41.1	38.9	94	70-134	
1,1-Dichloroethene	ug/m3	40.3	38.2	95	70-137	
1,2,3-Trimethylbenzene	ug/m3	50	49.2	98	69-150	N2
1,2,4-Trichlorobenzene	ug/m3	75.4	62.2	83	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	47.9	96	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	77.4	99	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	56.1	92	70-137	
1,2-Dichloroethane	ug/m3	41.1	40.3	98	70-136	
1,2-Dichloropropane	ug/m3	47	39.6	84	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	48.9	98	70-133	
1,3-Dichlorobenzene	ug/m3	61.1	54.7	89	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	55.0	90	70-134	
1,4-Dioxane (p-Dioxane)	ug/m3	91.6	97.3	106	70-145	
2-Butanone (MEK)	ug/m3	30	26.6	89	65-143	
2-Hexanone	ug/m3	41.6	38.2	92	60-148	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	40.5	97	70-135	
Acetone	ug/m3	121	102	85	59-132	
Benzene	ug/m3	32.5	30.6	94	70-134	
Bromodichloromethane	ug/m3	68.1	66.4	97	70-142	
Bromoform	ug/m3	105	91.2	87	69-150	
Bromomethane	ug/m3	39.5	37.4	95	61-141	
Carbon disulfide	ug/m3	31.6	29.7	94	66-134	
Carbon tetrachloride	ug/m3	64	57.1	89	60-145	
Chlorobenzene	ug/m3	46.8	45.3	97	70-130	
Chloroethane	ug/m3	26.8	25.2	94	65-143	
Chloroform	ug/m3	49.6	48.0	97	70-132	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Sparrow Point
Pace Project No.: 10459041

LABORATORY CONTROL SAMPLE: 3155294

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/m3	21	19.5	93	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	38.7	96	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	43.9	95	70-136	
Cyclohexane	ug/m3	35	33.7	96	70-133	
Dibromochloromethane	ug/m3	86.6	85.8	99	68-149	
Dichlorodifluoromethane	ug/m3	50.3	47.0	94	69-130	
Ethylbenzene	ug/m3	44.1	45.4	103	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	106	98	59-140	
Isopropylbenzene (Cumene)	ug/m3	50	49.2	99	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	35.5	97	70-132	
Methylene Chloride	ug/m3	177	165	94	67-132	
Naphthalene	ug/m3	53.3	39.7	75	55-136	
Styrene	ug/m3	43.3	42.9	99	70-139	
Tetrachloroethene	ug/m3	68.9	69.7	101	70-133	
Toluene	ug/m3	38.3	38.4	100	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	40.4	100	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	40.3	87	70-135	
Trichloroethene	ug/m3	54.6	52.4	96	70-135	
Trichlorofluoromethane	ug/m3	57.1	54.6	96	59-140	
Vinyl chloride	ug/m3	26	21.6	83	70-141	
Xylene (Total)	ug/m3	132	132	100	70-138	

SAMPLE DUPLICATE: 3156191

Parameter	Units	10459135001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	3.7	3.6	3	25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.59	ND		25	
1,1,2-Trichloroethane	ug/m3	<0.50	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.1	ND		25	
1,1-Dichloroethane	ug/m3	<0.45	ND		25	
1,1-Dichloroethene	ug/m3	<0.55	ND		25	
1,2,3-Trimethylbenzene	ug/m3	<0.81	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	<7.5	ND		25	
1,2,4-Trimethylbenzene	ug/m3	<0.91	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.74	ND		25	
1,2-Dichlorobenzene	ug/m3	<1.0	ND		25	
1,2-Dichloroethane	ug/m3	<0.30	ND		25	
1,2-Dichloropropane	ug/m3	<0.46	ND		25	
1,3,5-Trimethylbenzene	ug/m3	<0.80	ND		25	
1,3-Dichlorobenzene	ug/m3	<1.2	ND		25	
1,4-Dichlorobenzene	ug/m3	<2.0	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<1.5	ND		25	
2-Butanone (MEK)	ug/m3	1.3J	1.4J		25	
2-Hexanone	ug/m3	<1.5	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<1.0	ND		25	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Sparrow Point
Pace Project No.: 10459041

SAMPLE DUPLICATE: 3156191

Parameter	Units	10459135001 Result	Dup Result	RPD	Max RPD	Qualifiers
Acetone	ug/m3	12.5	11.2	11	25	
Benzene	ug/m3	<0.31	ND		25	
Bromodichloromethane	ug/m3	<0.74	ND		25	
Bromoform	ug/m3	<2.9	ND		25	
Bromomethane	ug/m3	<0.46	ND		25	
Carbon disulfide	ug/m3	<0.44	ND		25	
Carbon tetrachloride	ug/m3	<0.86	ND		25	
Chlorobenzene	ug/m3	<0.55	ND		25	
Chloroethane	ug/m3	<0.52	ND		25	
Chloroform	ug/m3	7.8	7.5	5	25	
Chloromethane	ug/m3	<0.31	ND		25	
cis-1,2-Dichloroethene	ug/m3	<0.44	ND		25	
cis-1,3-Dichloropropene	ug/m3	<0.61	ND		25	
Cyclohexane	ug/m3	<0.71	ND		25	
Dibromochloromethane	ug/m3	<1.4	ND		25	
Dichlorodifluoromethane	ug/m3	2.2	1.9J		25	
Ethylbenzene	ug/m3	<0.61	ND		25	
Hexachloro-1,3-butadiene	ug/m3	<4.0	ND		25	
Isopropylbenzene (Cumene)	ug/m3	<0.77	ND		25	
Methyl-tert-butyl ether	ug/m3	<1.3	ND		25	
Methylene Chloride	ug/m3	6.1J	5.4J		25	
Naphthalene	ug/m3	<2.7	ND		25	
Styrene	ug/m3	<0.69	ND		25	
Tetrachloroethene	ug/m3	468	474	1	25	
Toluene	ug/m3	1.7	ND		25	
trans-1,2-Dichloroethene	ug/m3	<0.57	ND		25	
trans-1,3-Dichloropropene	ug/m3	<0.88	ND		25	
Trichloroethene	ug/m3	104	103	2	25	
Trichlorofluoromethane	ug/m3	4.4	4.6	5	25	
Vinyl chloride	ug/m3	<0.25	ND		25	
Xylene (Total)	ug/m3	<1.4	ND		25	

SAMPLE DUPLICATE: 3156192

Parameter	Units	10459135012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.57	ND		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.53	ND		25	
1,1,2-Trichloroethane	ug/m3	<0.46	ND		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	2.0J	2.3J		25	
1,1-Dichloroethane	ug/m3	<0.41	ND		25	
1,1-Dichloroethene	ug/m3	<0.50	ND		25	
1,2,3-Trimethylbenzene	ug/m3	<0.74	ND		25	N2
1,2,4-Trichlorobenzene	ug/m3	<6.8	ND		25	
1,2,4-Trimethylbenzene	ug/m3	<0.83	ND		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.67	ND		25	

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1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: Sparrow Point
Pace Project No.: 10459041

SAMPLE DUPLICATE: 3156192

Parameter	Units	10459135012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichlorobenzene	ug/m3	<0.91	ND		25	
1,2-Dichloroethane	ug/m3	<0.27	ND		25	
1,2-Dichloropropane	ug/m3	<0.42	ND		25	
1,3,5-Trimethylbenzene	ug/m3	<0.73	ND		25	
1,3-Dichlorobenzene	ug/m3	<1.1	ND		25	
1,4-Dichlorobenzene	ug/m3	<1.8	ND		25	
1,4-Dioxane (p-Dioxane)	ug/m3	<1.4	ND		25	
2-Butanone (MEK)	ug/m3	1.5J	ND		25	
2-Hexanone	ug/m3	<1.4	ND		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.95	ND		25	
Acetone	ug/m3	7.0	8.3	17	25	
Benzene	ug/m3	<0.28	ND		25	
Bromodichloromethane	ug/m3	5.4	5.8	7	25	
Bromoform	ug/m3	<2.6	ND		25	
Bromomethane	ug/m3	<0.42	ND		25	
Carbon disulfide	ug/m3	<0.40	ND		25	
Carbon tetrachloride	ug/m3	1.4J	1.5J		25	
Chlorobenzene	ug/m3	<0.50	ND		25	
Chloroethane	ug/m3	<0.48	ND		25	
Chloroform	ug/m3	373	405	8	25	E
Chloromethane	ug/m3	<0.29	ND		25	
cis-1,2-Dichloroethene	ug/m3	<0.40	ND		25	
cis-1,3-Dichloropropene	ug/m3	<0.56	ND		25	
Cyclohexane	ug/m3	<0.65	ND		25	
Dibromochloromethane	ug/m3	<1.3	ND		25	
Dichlorodifluoromethane	ug/m3	45.1	50.4	11	25	
Ethylbenzene	ug/m3	<0.56	ND		25	
Hexachloro-1,3-butadiene	ug/m3	<3.6	ND		25	
Isopropylbenzene (Cumene)	ug/m3	<0.70	ND		25	
Methyl-tert-butyl ether	ug/m3	<1.2	ND		25	
Methylene Chloride	ug/m3	3.7J	4.2J		25	
Naphthalene	ug/m3	<2.4	ND		25	
Styrene	ug/m3	<0.63	ND		25	
Tetrachloroethene	ug/m3	3400	3210	6	25	
Toluene	ug/m3	0.82J	.91J		25	
trans-1,2-Dichloroethene	ug/m3	<0.52	ND		25	
trans-1,3-Dichloropropene	ug/m3	<0.81	ND		25	
Trichloroethene	ug/m3	25.9	27.1	5	25	
Trichlorofluoromethane	ug/m3	1.2J	1.2J		25	
Vinyl chloride	ug/m3	<0.23	ND		25	
Xylene (Total)	ug/m3	<1.3	ND		25	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Sparrow Point
Pace Project No.: 10459041

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
N2	The lab does not hold NELAC/TNI accreditation for this parameter.

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Sparrow Point
Pace Project No.: 10459041

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10459041001	**Cell 5 Inf**	TO-15	582102		
10459041002	**Cell 2 Inf**	TO-15	582102		
10459041003	**Cell 1 Inf**	TO-15	582102		

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AIR: CHAIN-OF-CUST

The Chain-of-Custody is a LEGAL DOCUMEN

WO# : 10459041

10459041

35112

Page: 1 of 1

Section A Required Client Information:

Company: EAG
Address: 1600 Sparrows Point Rd Suite B2
Email To: Jcalenda@enviranalytic.com
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: James Calenda
Copy To: Josh Burke, Ben Hardy
Purchase Order No.:
Project Name: Sparrow point Inc
Project Number:

Section C Invoice Information:

Attention: Laura Sargent
Company Name: EAG
Address: 1515 Des Peres Rd Suite 300
Pace Quote Reference: St Louis, MO. 63131
Pace Project Manager/Sales Rep.
Pace Profile #: 34460

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: MD

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

Method:

ITEM #	Section D Required Client Information: AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Cell 5 ~~Effluent~~ InF			12-13-18	0813	12-13-18	0818	30		0760						X					001
2	Cell-2 ~~Effluent~~ INF			12-13-18	0936	12-13-18	0943	30		0655						X					002
3	Cell-1 ~~Effluent~~ INF			12-13-18	0906	12-13-18	0913	30		0121						X					003
4																					
5	Unused Can 3472									3472											004
6	Unused Can 3376									3376											005
7	Unused Can 3513									3513											006
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	12-13-18	1021	[signature]	12/15/18	9:30

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Hardy

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev.01, 03Feb2010

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 11Oct2018 Page 1 of 1
	Document No.: F-MN-A-106-rev.16	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: EAG

Project #: WO#: 10459041

PM: NB3 Due Date: 12/24/18

CLIENT: EnviroAnalyt

Courier: [X] Fed Ex [ ] UPS [ ] Speedee [ ] Client [ ] Commercial [ ] Pace [ ] Other:

Tracking Number: 4545 9907 7711

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No

Optional: Proj. Due Date: Proj. Name:

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: **Temp Blank rec:** [ ] Yes [X] No

Temp. (TO17 and TO13 samples only) (°C): **Corrected Temp (°C):** **Thermom. Used:** [ ] G87A9170600254 [ ] G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** AMB **Date & Initials of Person Examining Contents:** CLT 12/15/18

Type of Ice Received [ ] Blue [ ] Wet [ ] None

			Comments:
Chain of Custody Present?	[X] Yes	[ ] No	1.
Chain of Custody Filled Out?	[X] Yes	[ ] No	2.
Chain of Custody Relinquished?	[X] Yes	[ ] No	3.
Sampler Name and/or Signature on COC?	[X] Yes	[ ] No [ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes	[ ] No	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[X] No	6.
Rush Turn Around Time Requested?	[ ] Yes	[X] No	7.
Sufficient Volume?	[X] Yes	[ ] No	8.
Correct Containers Used?	[X] Yes	[ ] No	9.
-Pace Containers Used?	[X] Yes	[ ] No	
Containers Intact?	[X] Yes	[ ] No	10.
Media: Air Can Airbag Filter TDT Passive			11. Individually Certified Cans Y (NF) (list which samples)
Is sufficient information available to reconcile samples to the COC?	[X] Yes	[ ] No	12.

Samples Received: Pressure Gauge # 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Cell 5 InF	0260								
Cell 2 InF	0655								
Cell 1 InF	0121								
Unused	3472								
" "	3376								
" "	3573								

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 12/18/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 20, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30245877001	**Trip Blank**	Water	03/09/18 00:01	03/09/18 23:00
30245877002	**C024-PZM007**	Water	03/09/18 09:35	03/09/18 23:00
30245877003	**C023-PZM008**	Water	03/09/18 10:20	03/09/18 23:00
30245877004	**C059-PZP002**	Water	03/09/18 11:10	03/09/18 23:00
30245877005	**C055-PZP000**	Water	03/09/18 12:45	03/09/18 23:00
30245877006	**C056-PZP001**	Water	03/09/18 13:45	03/09/18 23:00

Sample ID for 005 changed to CO55-PZM000

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30245877001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30245877002	**C024-PZM007**	EPA 8260B	MAK	53	PASI-PA
30245877003	**C023-PZM008**	EPA 8260B	MAK	53	PASI-PA
30245877004	**C059-PZP002**	EPA 8260B	MAK	53	PASI-PA
30245877005	**C055-PZP000**	EPA 8260B	MAK	53	PASI-PA
30245877006	**C056-PZP001**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: Trip Blank **Lab ID: 30245877001** Collected: 03/09/18 00:01 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 15:50	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 15:50	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 15:50	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 15:50	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 15:50	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 15:50	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 15:50	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 15:50	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 15:50	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 15:50	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 15:50	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 15:50	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 15:50	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 15:50	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 15:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 15:50	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		03/15/18 15:50	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 15:50	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/15/18 15:50	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 15:50	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 15:50	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 15:50	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 15:50	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 15:50	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 15:50	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 15:50	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 15:50	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 15:50	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 15:50	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 15:50	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 15:50	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 15:50	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 15:50	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 15:50	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 15:50	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/15/18 15:50	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 15:50	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 15:50	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 15:50	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 15:50	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 15:50	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 15:50	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 15:50	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/15/18 15:50	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 15:50	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 15:50	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: Trip Blank **Lab ID: 30245877001** Collected: 03/09/18 00:01 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 15:50	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 15:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 15:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	79-129		1		03/15/18 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		03/15/18 15:50	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		03/15/18 15:50	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		1		03/15/18 15:50	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C024-PZM007 **Lab ID: 30245877002** Collected: 03/09/18 09:35 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 17:57	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 17:57	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:57	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:57	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 17:57	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:57	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 17:57	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 17:57	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:57	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 17:57	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 17:57	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 17:57	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:57	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 17:57	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 17:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 17:57	108-10-1	
Acetone	**4.8J**	ug/L	10.0	2.8	1		03/15/18 17:57	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 17:57	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/15/18 17:57	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:57	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 17:57	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:57	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 17:57	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:57	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:57	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 17:57	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 17:57	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 17:57	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 17:57	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 17:57	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 17:57	74-95-3	
Ethylbenzene	**1.6**	ug/L	1.0	0.31	1		03/15/18 17:57	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 17:57	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 17:57	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 17:57	75-09-2	
Naphthalene	**383**	ug/L	2.0	0.82	1		03/15/18 17:57	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 17:57	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:57	127-18-4	
Toluene	**1.3**	ug/L	1.0	0.30	1		03/15/18 17:57	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 17:57	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 17:57	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 17:57	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:57	75-01-4	
Xylene (Total)	**3.0**	ug/L	3.0	0.78	1		03/15/18 17:57	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 17:57	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 17:57	10061-01-5	

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C024-PZM007 **Lab ID: 30245877002** Collected: 03/09/18 09:35 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 17:57	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 17:57	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 17:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		03/15/18 17:57	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120		1		03/15/18 17:57	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/15/18 17:57	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		03/15/18 17:57	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C023-PZM008 **Lab ID: 30245877003** Collected: 03/09/18 10:20 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 21:21	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:21	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 21:21	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:21	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/15/18 21:21	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:21	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/15/18 21:21	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/15/18 21:21	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:21	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/15/18 21:21	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 21:21	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:21	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:21	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/15/18 21:21	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/15/18 21:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/15/18 21:21	108-10-1	
Acetone	**14.5J**	ug/L	50.0	14.2	5		03/15/18 21:21	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/15/18 21:21	107-13-1	
Benzene	**600**	ug/L	5.0	1.2	5		03/15/18 21:21	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 21:21	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:21	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:21	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/15/18 21:21	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:21	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 21:21	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/15/18 21:21	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 21:21	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/15/18 21:21	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/15/18 21:21	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:21	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 21:21	74-95-3	
Ethylbenzene	**25.0**	ug/L	5.0	1.6	5		03/15/18 21:21	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/15/18 21:21	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 21:21	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/15/18 21:21	75-09-2	
Naphthalene	**3780**	ug/L	200	82.0	100		03/15/18 16:28	91-20-3	
Styrene	**22.1**	ug/L	5.0	0.85	5		03/15/18 21:21	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:21	127-18-4	
Toluene	**310**	ug/L	5.0	1.5	5		03/15/18 21:21	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 21:21	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:21	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/15/18 21:21	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:21	75-01-4	
Xylene (Total)	**392**	ug/L	15.0	3.9	5		03/15/18 21:21	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/15/18 21:21	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 21:21	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C023-PZM008 **Lab ID: 30245877003** Collected: 03/09/18 10:20 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/15/18 21:21	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/15/18 21:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/15/18 21:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		5		03/15/18 21:21	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/15/18 21:21	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/15/18 21:21	2037-26-5	
Dibromofluoromethane (S)	94	%	80-120		5		03/15/18 21:21	1868-53-7	

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C059-PZP002 **Lab ID: 30245877004** Collected: 03/09/18 11:10 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 18:23	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 18:23	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 18:23	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 18:23	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 18:23	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 18:23	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 18:23	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 18:23	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 18:23	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 18:23	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 18:23	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 18:23	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 18:23	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 18:23	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 18:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 18:23	108-10-1	
Acetone	**4.6J**	ug/L	10.0	2.8	1		03/15/18 18:23	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 18:23	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/15/18 18:23	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 18:23	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 18:23	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 18:23	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 18:23	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 18:23	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 18:23	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 18:23	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 18:23	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 18:23	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 18:23	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 18:23	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 18:23	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 18:23	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 18:23	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 18:23	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 18:23	75-09-2	
Naphthalene	**7.3**	ug/L	2.0	0.82	1		03/15/18 18:23	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 18:23	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 18:23	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 18:23	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 18:23	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 18:23	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 18:23	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 18:23	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/15/18 18:23	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 18:23	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 18:23	10061-01-5	

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C059-PZP002 **Lab ID: 30245877004** Collected: 03/09/18 11:10 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 18:23	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 18:23	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 18:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		1		03/15/18 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		1		03/15/18 18:23	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/15/18 18:23	2037-26-5	
Dibromofluoromethane (S)	104	%	80-120		1		03/15/18 18:23	1868-53-7	

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C055-PZP000 **Lab ID: 30245877005** Collected: 03/09/18 12:45 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 18:48	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 18:48	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 18:48	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 18:48	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 18:48	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 18:48	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 18:48	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 18:48	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 18:48	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 18:48	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 18:48	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 18:48	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 18:48	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 18:48	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 18:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 18:48	108-10-1	
Acetone	**8.9J**	ug/L	10.0	2.8	1		03/15/18 18:48	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 18:48	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/15/18 18:48	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 18:48	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 18:48	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 18:48	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 18:48	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 18:48	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 18:48	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 18:48	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 18:48	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 18:48	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 18:48	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 18:48	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 18:48	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 18:48	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 18:48	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 18:48	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 18:48	75-09-2	
Naphthalene	**2.0J**	ug/L	2.0	0.82	1		03/15/18 18:48	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 18:48	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 18:48	127-18-4	
Toluene	**1.2**	ug/L	1.0	0.30	1		03/15/18 18:48	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 18:48	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 18:48	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 18:48	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 18:48	75-01-4	
Xylene (Total)	**3.3**	ug/L	3.0	0.78	1		03/15/18 18:48	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 18:48	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 18:48	10061-01-5	

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C055-PZP000 **Lab ID: 30245877005** Collected: 03/09/18 12:45 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 18:48	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 18:48	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 18:48	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		1		03/15/18 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		03/15/18 18:48	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		03/15/18 18:48	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		03/15/18 18:48	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C056-PZP001 **Lab ID: 30245877006** Collected: 03/09/18 13:45 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 22:12	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:12	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 22:12	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:12	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/15/18 22:12	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:12	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/15/18 22:12	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/15/18 22:12	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:12	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/15/18 22:12	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 22:12	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:12	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:12	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/15/18 22:12	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/15/18 22:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/15/18 22:12	108-10-1	
Acetone	**18.9J**	ug/L	50.0	14.2	5		03/15/18 22:12	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/15/18 22:12	107-13-1	
Benzene	**346**	ug/L	5.0	1.2	5		03/15/18 22:12	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 22:12	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:12	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:12	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/15/18 22:12	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:12	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 22:12	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/15/18 22:12	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 22:12	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/15/18 22:12	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/15/18 22:12	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:12	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 22:12	74-95-3	
Ethylbenzene	**9.6**	ug/L	5.0	1.6	5		03/15/18 22:12	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/15/18 22:12	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 22:12	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/15/18 22:12	75-09-2	
Naphthalene	**1760**	ug/L	200	82.0	100		03/15/18 17:45	91-20-3	
Styrene	**43.2**	ug/L	5.0	0.85	5		03/15/18 22:12	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:12	127-18-4	
Toluene	**169**	ug/L	5.0	1.5	5		03/15/18 22:12	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 22:12	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:12	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/15/18 22:12	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:12	75-01-4	
Xylene (Total)	**219**	ug/L	15.0	3.9	5		03/15/18 22:12	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/15/18 22:12	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 22:12	10061-01-5	

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ANALYTICAL RESULTS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Sample: C056-PZP001 **Lab ID: 30245877006** Collected: 03/09/18 13:45 Received: 03/09/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/15/18 22:12	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/15/18 22:12	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/15/18 22:12	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		03/15/18 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120		5		03/15/18 22:12	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/15/18 22:12	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		5		03/15/18 22:12	1868-53-7	

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QUALITY CONTROL DATA

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

QC Batch: 291449 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30245877001, 30245877002, 30245877003, 30245877004, 30245877005, 30245877006

METHOD BLANK: 1426336 Matrix: Water
Associated Lab Samples: 30245877001, 30245877002, 30245877003, 30245877004, 30245877005, 30245877006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	03/15/18 15:24	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	03/15/18 15:24	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	03/15/18 15:24	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	03/15/18 15:24	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	03/15/18 15:24	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	03/15/18 15:24	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	03/15/18 15:24	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	03/15/18 15:24	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	03/15/18 15:24	
2-Hexanone	ug/L	10.0 U	10.0	0.66	03/15/18 15:24	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	03/15/18 15:24	
Acetone	ug/L	10.0 U	10.0	2.8	03/15/18 15:24	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	03/15/18 15:24	
Benzene	ug/L	1.0 U	1.0	0.24	03/15/18 15:24	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	03/15/18 15:24	
Bromoform	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Bromomethane	ug/L	1.0 U	1.0	0.49	03/15/18 15:24	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	03/15/18 15:24	
Chloroethane	ug/L	1.0 U	1.0	0.55	03/15/18 15:24	
Chloroform	ug/L	1.0 U	1.0	0.30	03/15/18 15:24	
Chloromethane	ug/L	1.0 U	1.0	0.68	03/15/18 15:24	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	03/15/18 15:24	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	03/15/18 15:24	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	03/15/18 15:24	
Dibromomethane	ug/L	1.0 U	1.0	0.40	03/15/18 15:24	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
Iodomethane	ug/L	50.0 U	50.0	0.67	03/15/18 15:24	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	03/15/18 15:24	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	03/15/18 15:24	
Naphthalene	ug/L	2.0 U	2.0	0.82	03/15/18 15:24	
Styrene	ug/L	1.0 U	1.0	0.17	03/15/18 15:24	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Toluene	ug/L	1.0 U	1.0	0.30	03/15/18 15:24	

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QUALITY CONTROL DATA

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

METHOD BLANK: 1426336 Matrix: Water
Associated Lab Samples: 30245877001, 30245877002, 30245877003, 30245877004, 30245877005, 30245877006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	03/15/18 15:24	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	03/15/18 15:24	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	03/15/18 15:24	
Trichloroethene	ug/L	1.0 U	1.0	0.39	03/15/18 15:24	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	03/15/18 15:24	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	03/15/18 15:24	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	03/15/18 15:24	
1,2-Dichloroethane-d4 (S)	%	95	80-120		03/15/18 15:24	
4-Bromofluorobenzene (S)	%	105	79-129		03/15/18 15:24	
Dibromofluoromethane (S)	%	103	80-120		03/15/18 15:24	
Toluene-d8 (S)	%	94	80-120		03/15/18 15:24	

LABORATORY CONTROL SAMPLE: 1426337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,1-Trichloroethane	ug/L	20	17.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethene	ug/L	20	18.7	93	70-130	
1,2,3-Trichloropropane	ug/L	20	19.4	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.0	95	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	100	70-130	
1,2-Dichlorobenzene	ug/L	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	20	17.2	86	70-130	
1,2-Dichloropropane	ug/L	20	18.9	94	70-130	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	18.8	94	72-170	
2-Hexanone	ug/L	20	18.5	93	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	66-150	
Acetone	ug/L	20	21.5	108	30-179	
Acrylonitrile	ug/L	20	19.3	97	48-172	
Benzene	ug/L	20	18.5	93	70-130	
Bromochloromethane	ug/L	20	21.7	108	70-130	
Bromodichloromethane	ug/L	20	16.8	84	70-130	
Bromoform	ug/L	20	18.0	90	70-130	
Bromomethane	ug/L	20	21.8	109	47-174	
Carbon disulfide	ug/L	20	16.7	83	43-133	
Carbon tetrachloride	ug/L	20	17.6	88	56-143	
Chlorobenzene	ug/L	20	19.7	98	70-130	
Chloroethane	ug/L	20	17.7	88	67-139	
Chloroform	ug/L	20	18.0	90	70-130	

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QUALITY CONTROL DATA

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

LABORATORY CONTROL SAMPLE: 1426337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.8	104	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.9	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.9	84	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Dibromomethane	ug/L	20	20.3	101	70-130	
Ethylbenzene	ug/L	20	19.5	97	70-130	
Iodomethane	ug/L	20	23.0J	115	10-175	
Methyl-tert-butyl ether	ug/L	20	17.8	89	70-130	
Methylene Chloride	ug/L	20	17.6	88	55-144	
Naphthalene	ug/L	20	21.4	107	70-130	
Styrene	ug/L	20	19.8	99	70-130	
Tetrachloroethene	ug/L	20	20.6	103	70-130	
Toluene	ug/L	20	18.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.9	79	27-116	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	24.0	120	60-148	
Vinyl acetate	ug/L	20	16.4	82	30-181	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	59.3	99	70-130	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			104	79-129	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427251 1427252

Parameter	Units	30246031007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.2	16.4	81	82	51-124	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.0	15.7	80	78	79-129	2	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.5	15.9	78	80	57-118	3	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.4	16.8	82	84	68-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.5	16.6	83	83	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.0	14.3	70	72	63-126	2	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.0	15.9	80	80	56-129	0	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	13.4	13.9	67	70	53-120	4	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.7	16.7	83	84	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	17.1	85	86	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.6	16.1	78	81	69-116	3	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	16.4	16.7	82	83	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	17.4	85	87	72-118	2	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	20.9	20.8	105	104	72-168	1	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427251 1427252

Parameter	Units	30246031007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	15.8	16.0	79	80	66-143	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	19.3	20.0	97	100	67-145	4	30	
Acetone	ug/L	3.3J	20	20	23.3	22.6	100	96	15-175	3	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.3	16.9	81	84	36-165	4	30	
Benzene	ug/L	1.0 U	20	20	15.8	16.5	79	82	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.1	19.5	91	98	62-128	7	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.7	16.3	78	82	66-127	4	30	
Bromoform	ug/L	1.0 U	20	20	13.7	14.2	69	71	71-127	4	30	ML
Bromomethane	ug/L	1.9	20	20	11.7	13.7	49	59	10-156	16	30	
Carbon disulfide	ug/L	1.0 U	20	20	10.9	10.9	54	55	45-131	1	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.5	15.5	78	78	69-134	0	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.2	17.4	86	87	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	14.0	17.3	70	86	60-156	21	30	
Chloroform	ug/L	1.0 U	20	20	15.7	16.1	78	80	69-115	2	30	
Chloromethane	ug/L	1.0 U	20	20	16.8	17.8	84	89	52-145	6	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.6	15.6	78	78	65-120	1	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.5	15.2	73	76	57-125	4	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.4	15.7	77	78	64-131	2	30	
Dibromomethane	ug/L	1.0 U	20	20	18.5	19.0	93	95	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.0	16.8	80	84	70-127	5	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	8.9J	37	44	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.0	15.2	75	76	79-135	2	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	15.1	15.5	75	78	54-133	3	30	
Naphthalene	ug/L	2.0 U	20	20	16.0	15.9	80	79	62-131	1	30	
Styrene	ug/L	1.0 U	20	20	14.1	14.6	70	73	65-121	3	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.4	17.9	87	90	77-125	3	30	
Toluene	ug/L	1.0 U	20	20	16.2	16.6	81	83	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.7	15.0	73	75	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.4	14.1	72	70	52-125	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	5.3	5.9	27	30	13-100	11	30	
Trichloroethene	ug/L	1.0 U	20	20	17.0	17.1	85	86	74-128	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.8	22.0	109	110	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	14.2	14.2	71	71	15-173	0	30	
Vinyl chloride	ug/L	1.0 U	20	20	14.9	15.2	75	76	60-131	2	30	
Xylene (Total)	ug/L	3.0 U	60	60	49.6	49.8	83	83	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%						98	95	80-120			
4-Bromofluorobenzene (S)	%						106	105	79-129			
Dibromofluoromethane (S)	%						106	108	80-120			
Toluene-d8 (S)	%						96	96	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cokeouen 1st Q 2018
Pace Project No.: 30245877

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30245877001	**Trip Blank**	EPA 8260B	291449		
30245877002	**C024-PZM007**	EPA 8260B	291449		
30245877003	**C023-PZM008**	EPA 8260B	291449		
30245877004	**C059-PZP002**	EPA 8260B	291449		
30245877005	**C055-PZP000**	EPA 8260B	291449		
30245877006	**C056-PZP001**	EPA 8260B	291449		

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Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	EnviroAnalytics Group	Report To:	James Calenda	Attention:	Laura Sargent
Address:	1430 Sparrows Point Blvd	Copy To:		Company Name:	EnviroAnalytics Group
	Sparrows Point, MD 21219			Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Email To:	jcalenda@enviroanalyticsgroup.com	PO Number:		Pace Quote Reference:	
Phone: 314-620-3056	Fax:	Project Name:	Coke oven 1st Q 2018	Pace Project Manager:	Samantha Bayura
Requested Due Date/TAT:	5-day	Project Number:	10384M-1-2	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MD

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Other	DI Water	Analysis Test (Y/N)	VOC/8260B	SVOC/8270D VOCs + Naph	DRO/8015B	GRO/8015B	METALS (total)/6010C	Total Mercury/7471A or 7470A	Total Cyanide/9012A	Hexavalent Chromium (total)/7196A	METALS (dissolved)/6010C	Hexavalent Chromium (dissolved)/7196A	Available Cyanide/OIA1677	Oil and Grease/1664 (aq)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																				N							Y	Y				
1	Trip Blank	WT	G			3/9/18	—		2				2						X													001 TB
2	C024-PZM007	WT	G				935		3				3							X												002
3	C023-PZM008	WT	G				1020		3				3							X												003
4	C059-PZP002	WT	G				1110		3				3							X												004
5	~~C056-PZP001~~	~~WT~~	~~G~~				~~1245~~		~~3~~				~~3~~							~~X~~												
6	C055-PZP000	WT	G				1245		3				3							X												005
7	C056-PZP001	WT	G				1345		3				3							X												006
8																																
9																																
10																																
11																																
12																																

WO#: 30245877

30245877

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Data Package Required? (Y/N):	[signature]	3/9/18	1430	David L Hillegass / Pace	3/9/18	1524			
Data Validation Required? (Y/N):	David L Hillegass / Pace	3/9/18	1933	Randy S[signature]	3-9-18	1935			
If data package is required, attach data package checklist.	Randy S[signature]	3-9-18	2300	[signature]	3/9/18	2300	2.2	Y	N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/9/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

EAL-O-020rev.06, 2-Feb-2007

Pittsburgh Lab Sample Condition Upon Receipt

30245877

Pace Analytical

Client Name: Env. Analytics group Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other

Label 24.
LIMS Login 24

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 8 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.2 °C Correction Factor: 0.0 °C Final Temp: 2.2 °C

Temp should be above freezing to 6°C

pH paper Lot#

Date and Initials of person examining contents: 24 3/10/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA) coliform, TOC, O&G, Phenolics			✓	16. Initial when completed 24 Date/time of preservation Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 20, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30246031001	**Trip Blank**	Water	03/12/18 00:01	03/13/18 00:22
30246031002	**C060-PZP001**	Water	03/12/18 10:12	03/13/18 00:22
30246031003	**C026-PZM007**	Water	03/12/18 10:55	03/13/18 00:22
30246031004	**C058-PZM001**	Water	03/12/18 11:40	03/13/18 00:22
30246031007	**C057-PZP002**	Water	03/12/18 12:18	03/13/18 00:22

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SAMPLE ANALYTE COUNT

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30246031001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30246031002	**C060-PZP001**	EPA 8260B	MAK	53	PASI-PA
30246031003	**C026-PZM007**	EPA 8260B	MAK	53	PASI-PA
30246031004	**C058-PZM001**	EPA 8260B	MAK	53	PASI-PA
30246031007	**C057-PZP002**	EPA 8260B	MAK	53	PASI-PA

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: Trip Blank **Lab ID: 30246031001** Collected: 03/12/18 00:01 Received: 03/13/18 00:22 Matrix: Water

Comments: • Headspace in both vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 16:41	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 16:41	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 16:41	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 16:41	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 16:41	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 16:41	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 16:41	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		03/15/18 16:41	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 16:41	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 16:41	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 16:41	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 16:41	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 16:41	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		03/15/18 16:41	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		03/15/18 16:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		03/15/18 16:41	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		03/15/18 16:41	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 16:41	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/15/18 16:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 16:41	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 16:41	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 16:41	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 16:41	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 16:41	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 16:41	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 16:41	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 16:41	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 16:41	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 16:41	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 16:41	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 16:41	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 16:41	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		03/15/18 16:41	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 16:41	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 16:41	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/15/18 16:41	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 16:41	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 16:41	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 16:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 16:41	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 16:41	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		03/15/18 16:41	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 16:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		03/15/18 16:41	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 16:41	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: Trip Blank **Lab ID: 30246031001** Collected: 03/12/18 00:01 Received: 03/13/18 00:22 Matrix: Water

Comments: • Headspace in both vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 16:41	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 16:41	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 16:41	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		03/15/18 16:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		1		03/15/18 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		03/15/18 16:41	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/15/18 16:41	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		03/15/18 16:41	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C060-PZP001 **Lab ID: 30246031002** Collected: 03/12/18 10:12 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 20:55	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 20:55	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:55	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:55	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 20:55	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 20:55	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 20:55	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 20:55	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:55	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 20:55	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 20:55	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 20:55	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:55	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 20:55	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 20:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 20:55	108-10-1	
Acetone	**7.9J**	ug/L	10.0	2.8	1		03/15/18 20:55	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 20:55	107-13-1	
Benzene	**166**	ug/L	1.0	0.24	1		03/15/18 20:55	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:55	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 20:55	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:55	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 20:55	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:55	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:55	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 20:55	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 20:55	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 20:55	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 20:55	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 20:55	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 20:55	74-95-3	
Ethylbenzene	**3.1**	ug/L	1.0	0.31	1		03/15/18 20:55	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 20:55	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 20:55	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 20:55	75-09-2	
Naphthalene	**446**	ug/L	40.0	16.4	20		03/15/18 19:26	91-20-3	
Styrene	**15.9**	ug/L	1.0	0.17	1		03/15/18 20:55	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:55	127-18-4	
Toluene	**40.5**	ug/L	1.0	0.30	1		03/15/18 20:55	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 20:55	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 20:55	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 20:55	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 20:55	75-01-4	
Xylene (Total)	**63.1**	ug/L	3.0	0.78	1		03/15/18 20:55	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 20:55	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 20:55	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C060-PZP001 **Lab ID: 30246031002** Collected: 03/12/18 10:12 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 20:55	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 20:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 20:55	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		1		03/15/18 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		03/15/18 20:55	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		03/15/18 20:55	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		03/15/18 20:55	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C026-PZM007 **Lab ID: 30246031003** Collected: 03/12/18 10:55 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 20:30	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 20:30	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:30	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:30	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 20:30	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 20:30	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 20:30	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 20:30	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:30	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 20:30	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 20:30	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 20:30	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:30	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 20:30	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 20:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 20:30	108-10-1	
Acetone	**8.8J**	ug/L	10.0	2.8	1		03/15/18 20:30	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 20:30	107-13-1	
Benzene	**218**	ug/L	1.0	0.24	1		03/15/18 20:30	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:30	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 20:30	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:30	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 20:30	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:30	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:30	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 20:30	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 20:30	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 20:30	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 20:30	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 20:30	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 20:30	74-95-3	
Ethylbenzene	**7.7**	ug/L	1.0	0.31	1		03/15/18 20:30	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 20:30	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 20:30	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 20:30	75-09-2	
Naphthalene	**1410**	ug/L	40.0	16.4	20		03/15/18 19:52	91-20-3	
Styrene	**42.5**	ug/L	1.0	0.17	1		03/15/18 20:30	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:30	127-18-4	
Toluene	**106**	ug/L	1.0	0.30	1		03/15/18 20:30	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 20:30	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 20:30	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 20:30	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 20:30	75-01-4	
Xylene (Total)	**170**	ug/L	3.0	0.78	1		03/15/18 20:30	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 20:30	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 20:30	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C026-PZM007 **Lab ID: 30246031003** Collected: 03/12/18 10:55 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 20:30	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 20:30	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 20:30	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		1		03/15/18 20:30	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		1		03/15/18 20:30	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		03/15/18 20:30	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		1		03/15/18 20:30	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C058-PZM001 **Lab ID: 30246031004** Collected: 03/12/18 11:40 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 20:04	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 20:04	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:04	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:04	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 20:04	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 20:04	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 20:04	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 20:04	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:04	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 20:04	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 20:04	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 20:04	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 20:04	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 20:04	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 20:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 20:04	108-10-1	
Acetone	**3.2J**	ug/L	10.0	2.8	1		03/15/18 20:04	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 20:04	107-13-1	
Benzene	**98.7**	ug/L	1.0	0.24	1		03/15/18 20:04	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:04	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 20:04	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:04	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 20:04	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:04	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 20:04	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 20:04	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 20:04	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 20:04	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 20:04	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 20:04	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 20:04	74-95-3	
Ethylbenzene	**5.4**	ug/L	1.0	0.31	1		03/15/18 20:04	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 20:04	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 20:04	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 20:04	75-09-2	
Naphthalene	**572**	ug/L	40.0	16.4	20		03/15/18 20:17	91-20-3	
Styrene	**11.5**	ug/L	1.0	0.17	1		03/15/18 20:04	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 20:04	127-18-4	
Toluene	**34.5**	ug/L	1.0	0.30	1		03/15/18 20:04	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 20:04	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 20:04	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 20:04	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 20:04	75-01-4	
Xylene (Total)	**83.5**	ug/L	3.0	0.78	1		03/15/18 20:04	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 20:04	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 20:04	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C058-PZM001 **Lab ID: 30246031004** Collected: 03/12/18 11:40 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 20:04	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 20:04	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 20:04	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		1		03/15/18 20:04	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		03/15/18 20:04	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		03/15/18 20:04	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		03/15/18 20:04	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C057-PZP002 **Lab ID: 30246031007** Collected: 03/12/18 12:18 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 17:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 17:32	71-55-6	ML
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:32	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 17:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 17:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 17:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 17:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 17:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 17:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 17:32	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 17:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 17:32	108-10-1	
Acetone	**3.3J**	ug/L	10.0	2.8	1		03/15/18 17:32	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 17:32	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/15/18 17:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 17:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:32	75-25-2	ML
Bromomethane	**1.9**	ug/L	1.0	0.49	1		03/15/18 17:32	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 17:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 17:32	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 17:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 17:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 17:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 17:32	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 17:32	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 17:32	1634-04-4	ML
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 17:32	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/15/18 17:32	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 17:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:32	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 17:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 17:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 17:32	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 17:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:32	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/15/18 17:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 17:32	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 17:32	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Sample: C057-PZP002 **Lab ID: 30246031007** Collected: 03/12/18 12:18 Received: 03/13/18 00:22 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 17:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 17:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 17:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		1		03/15/18 17:32	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		03/15/18 17:32	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/15/18 17:32	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		03/15/18 17:32	1868-53-7	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

QC Batch: 291449 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30246031001, 30246031002, 30246031003, 30246031004, 30246031007

METHOD BLANK: 1426336 Matrix: Water
Associated Lab Samples: 30246031001, 30246031002, 30246031003, 30246031004, 30246031007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	03/15/18 15:24	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	03/15/18 15:24	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	03/15/18 15:24	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	03/15/18 15:24	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	03/15/18 15:24	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	03/15/18 15:24	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	03/15/18 15:24	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	03/15/18 15:24	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	03/15/18 15:24	
2-Hexanone	ug/L	10.0 U	10.0	0.66	03/15/18 15:24	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	03/15/18 15:24	
Acetone	ug/L	10.0 U	10.0	2.8	03/15/18 15:24	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	03/15/18 15:24	
Benzene	ug/L	1.0 U	1.0	0.24	03/15/18 15:24	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	03/15/18 15:24	
Bromoform	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Bromomethane	ug/L	1.0 U	1.0	0.49	03/15/18 15:24	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	03/15/18 15:24	
Chloroethane	ug/L	1.0 U	1.0	0.55	03/15/18 15:24	
Chloroform	ug/L	1.0 U	1.0	0.30	03/15/18 15:24	
Chloromethane	ug/L	1.0 U	1.0	0.68	03/15/18 15:24	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	03/15/18 15:24	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	03/15/18 15:24	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	03/15/18 15:24	
Dibromomethane	ug/L	1.0 U	1.0	0.40	03/15/18 15:24	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
Iodomethane	ug/L	50.0 U	50.0	0.67	03/15/18 15:24	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	03/15/18 15:24	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	03/15/18 15:24	
Naphthalene	ug/L	2.0 U	2.0	0.82	03/15/18 15:24	
Styrene	ug/L	1.0 U	1.0	0.17	03/15/18 15:24	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Toluene	ug/L	1.0 U	1.0	0.30	03/15/18 15:24	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

METHOD BLANK: 1426336 Matrix: Water
Associated Lab Samples: 30246031001, 30246031002, 30246031003, 30246031004, 30246031007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	03/15/18 15:24	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	03/15/18 15:24	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	03/15/18 15:24	
Trichloroethene	ug/L	1.0 U	1.0	0.39	03/15/18 15:24	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	03/15/18 15:24	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	03/15/18 15:24	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	03/15/18 15:24	
1,2-Dichloroethane-d4 (S)	%	95	80-120		03/15/18 15:24	
4-Bromofluorobenzene (S)	%	105	79-129		03/15/18 15:24	
Dibromofluoromethane (S)	%	103	80-120		03/15/18 15:24	
Toluene-d8 (S)	%	94	80-120		03/15/18 15:24	

LABORATORY CONTROL SAMPLE: 1426337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,1-Trichloroethane	ug/L	20	17.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethene	ug/L	20	18.7	93	70-130	
1,2,3-Trichloropropane	ug/L	20	19.4	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.0	95	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	100	70-130	
1,2-Dichlorobenzene	ug/L	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	20	17.2	86	70-130	
1,2-Dichloropropane	ug/L	20	18.9	94	70-130	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	18.8	94	72-170	
2-Hexanone	ug/L	20	18.5	93	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	66-150	
Acetone	ug/L	20	21.5	108	30-179	
Acrylonitrile	ug/L	20	19.3	97	48-172	
Benzene	ug/L	20	18.5	93	70-130	
Bromochloromethane	ug/L	20	21.7	108	70-130	
Bromodichloromethane	ug/L	20	16.8	84	70-130	
Bromoform	ug/L	20	18.0	90	70-130	
Bromomethane	ug/L	20	21.8	109	47-174	
Carbon disulfide	ug/L	20	16.7	83	43-133	
Carbon tetrachloride	ug/L	20	17.6	88	56-143	
Chlorobenzene	ug/L	20	19.7	98	70-130	
Chloroethane	ug/L	20	17.7	88	67-139	
Chloroform	ug/L	20	18.0	90	70-130	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

LABORATORY CONTROL SAMPLE: 1426337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.8	104	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.9	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.9	84	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Dibromomethane	ug/L	20	20.3	101	70-130	
Ethylbenzene	ug/L	20	19.5	97	70-130	
Iodomethane	ug/L	20	23.0J	115	10-175	
Methyl-tert-butyl ether	ug/L	20	17.8	89	70-130	
Methylene Chloride	ug/L	20	17.6	88	55-144	
Naphthalene	ug/L	20	21.4	107	70-130	
Styrene	ug/L	20	19.8	99	70-130	
Tetrachloroethene	ug/L	20	20.6	103	70-130	
Toluene	ug/L	20	18.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.9	79	27-116	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	24.0	120	60-148	
Vinyl acetate	ug/L	20	16.4	82	30-181	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	59.3	99	70-130	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			104	79-129	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427251 1427252

Parameter	Units	30246031007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.2	16.4	81	82	51-124	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.0	15.7	80	78	79-129	2	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.5	15.9	78	80	57-118	3	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.4	16.8	82	84	68-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.5	16.6	83	83	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.0	14.3	70	72	63-126	2	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.0	15.9	80	80	56-129	0	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	13.4	13.9	67	70	53-120	4	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.7	16.7	83	84	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	17.1	85	86	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.6	16.1	78	81	69-116	3	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	16.4	16.7	82	83	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	17.4	85	87	72-118	2	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	20.9	20.8	105	104	72-168	1	30	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427251 1427252

Parameter	Units	30246031007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	15.8	16.0	79	80	66-143	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	19.3	20.0	97	100	67-145	4	30	
Acetone	ug/L	3.3J	20	20	23.3	22.6	100	96	15-175	3	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.3	16.9	81	84	36-165	4	30	
Benzene	ug/L	1.0 U	20	20	15.8	16.5	79	82	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.1	19.5	91	98	62-128	7	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.7	16.3	78	82	66-127	4	30	
Bromoform	ug/L	1.0 U	20	20	13.7	14.2	69	71	71-127	4	30	ML
Bromomethane	ug/L	1.9	20	20	11.7	13.7	49	59	10-156	16	30	
Carbon disulfide	ug/L	1.0 U	20	20	10.9	10.9	54	55	45-131	1	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.5	15.5	78	78	69-134	0	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.2	17.4	86	87	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	14.0	17.3	70	86	60-156	21	30	
Chloroform	ug/L	1.0 U	20	20	15.7	16.1	78	80	69-115	2	30	
Chloromethane	ug/L	1.0 U	20	20	16.8	17.8	84	89	52-145	6	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.6	15.6	78	78	65-120	1	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.5	15.2	73	76	57-125	4	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.4	15.7	77	78	64-131	2	30	
Dibromomethane	ug/L	1.0 U	20	20	18.5	19.0	93	95	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.0	16.8	80	84	70-127	5	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	8.9J	37	44	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.0	15.2	75	76	79-135	2	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	15.1	15.5	75	78	54-133	3	30	
Naphthalene	ug/L	2.0 U	20	20	16.0	15.9	80	79	62-131	1	30	
Styrene	ug/L	1.0 U	20	20	14.1	14.6	70	73	65-121	3	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.4	17.9	87	90	77-125	3	30	
Toluene	ug/L	1.0 U	20	20	16.2	16.6	81	83	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.7	15.0	73	75	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.4	14.1	72	70	52-125	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	5.3	5.9	27	30	13-100	11	30	
Trichloroethene	ug/L	1.0 U	20	20	17.0	17.1	85	86	74-128	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.8	22.0	109	110	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	14.2	14.2	71	71	15-173	0	30	
Vinyl chloride	ug/L	1.0 U	20	20	14.9	15.2	75	76	60-131	2	30	
Xylene (Total)	ug/L	3.0 U	60	60	49.6	49.8	83	83	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%						98	95	80-120			
4-Bromofluorobenzene (S)	%						106	105	79-129			
Dibromofluoromethane (S)	%						106	108	80-120			
Toluene-d8 (S)	%						96	96	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Coke Oven 1st Q2018
Pace Project No.: 30246031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30246031001	**Trip Blank**	EPA 8260B	291449		
30246031002	**C060-PZP001**	EPA 8260B	291449		
30246031003	**C026-PZM007**	EPA 8260B	291449		
30246031004	**C058-PZM001**	EPA 8260B	291449		
30246031007	**C057-PZP002**	EPA 8260B	291449		

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CHAIN-[illegible] ment
The Chain-of-C[illegible] curately.

WO# : 30246031

30246031

Page: 1 of 1

Section A
Required Client Information:

Company:	EnviroAnalytics Group
Address:	1430 Sparrows Point Blvd
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5-day

Section B
Required Project Information:

Report To:	James Calenda
Copy To:	
PO Number:	
Project Name:	Coke Oven 1st Q 2018
Project Number:	170384m-1-2

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location
STATE: MD

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COLLECTED: COMPOSITE START TIME	COLLECTED: COMPOSITE END/GRAB DATE	COLLECTED: COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Other	DI Water	Analysis Test Y/N	VOC/8260B	SVOC 8270D VOC tNapth.	DRO/8015B	GRO/8015B	METALS (total)/6010C	Total Mercury/7471A or 7470A	Total Cyanide/9012A	Hexavalent Chromium (total)/7196A	METALS (dissolved)/6010C	Hexavalent Chromium (dissolved)/7196A	Available Cyanide/OIA1677	Oil and Grease/1664 (aq)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Requested Analysis Filtered (Y/N)	N	N							Y	Y			
1	Trip Blank	WT	G			3/12/18	—		2				2						X													001
2	C060-PZP001	WT	G				1012		3				3							X													002
3	C026-PZM007	WT	G				1055		3				3							X													003
4	C058-PZM001	WT	G				1140		3				3							X													004
5	C016-PZM006	WT	G				1408		3				3							X													005
6	C088-PZMXXX	WT	G				1450		3				3							X													006
7	C057-PZP002	WT	G				1218		3				3							X													007
8																																	
9																																	
10																																	
11																																	
12																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Conditions		
Data Package Required? (Y/N): Y	Lisa Perna	3/12/18	1555	David T Hilligan/Pace	3/13/18	1753			
Data Validation Required? (Y/N):	David T Hilligan/Pace	3/13/18	0745	Randy Sheley	3-13-18	2210			
If data package is required, attach data package checklist.	Randy Sheley	3-13-18	0022	Johnny Thurman/Pace	3-13-18	0022	1.5°Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perna
SIGNATURE of SAMPLER: Lisa Perna
DATE Signed (MM/DD/YY): 3/12/18

Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

30246031

Client Name: EnviroAna. Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other

Label AM

LIMS Login BLM

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.5 °C Correction Factor: +0.0 °C Final Temp: 1.5 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A Date and Initials of person examining contents: AM 3-13-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			X X	16.
exceptions: (VOA) coliform, TOC, O&G, Phenolics				Initial when completed / Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):	X			17. Both trip blank vials
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: / Date:

Client Notification/ Resolution:

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 20, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30246135001	**Trip Blank**	Water	03/13/18 00:01	03/13/18 23:10
30246135002	**CO02-PZM006**	Water	03/13/18 10:05	03/13/18 23:10
30246135003	**CO41-PZM001**	Water	03/13/18 10:30	03/13/18 23:10
30246135004	**CO41-PZM036**	Water	03/13/18 11:00	03/13/18 23:10
30246135005	**CO36-PZM008**	Water	03/13/18 11:35	03/13/18 23:10
30246135006	**CO36-PZM043**	Water	03/13/18 12:15	03/13/18 23:10
30246135007	**CO38-PZM006**	Water	03/13/18 13:34	03/13/18 23:10
30246135008	**CO38-PZM043**	Water	03/13/18 14:10	03/13/18 23:10
30246135009	**CO39-PZM007**	Water	03/13/18 14:50	03/13/18 23:10
30246135010	**CO39-PZM042**	Water	03/13/18 15:15	03/13/18 23:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30246135001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30246135002	**CO02-PZM006**	EPA 8260B	MAK	53	PASI-PA
30246135003	**CO41-PZM001**	EPA 8260B	MAK	53	PASI-PA
30246135004	**CO41-PZM036**	EPA 8260B	MAK	53	PASI-PA
30246135005	**CO36-PZM008**	EPA 8260B	MAK	53	PASI-PA
30246135006	**CO36-PZM043**	EPA 8260B	MAK	53	PASI-PA
30246135007	**CO38-PZM006**	EPA 8260B	MAK	53	PASI-PA
30246135008	**CO38-PZM043**	EPA 8260B	MAK	53	PASI-PA
30246135009	**CO39-PZM007**	EPA 8260B	MAK	53	PASI-PA
30246135010	**CO39-PZM042**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: Trip Blank **Lab ID: 30246135001** Collected: 03/13/18 00:01 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/16/18 14:56	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 14:56	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 14:56	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 14:56	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/16/18 14:56	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 14:56	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/16/18 14:56	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		03/16/18 14:56	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 14:56	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/16/18 14:56	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 14:56	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/16/18 14:56	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 14:56	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		03/16/18 14:56	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		03/16/18 14:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		03/16/18 14:56	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		03/16/18 14:56	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/16/18 14:56	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/16/18 14:56	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 14:56	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/16/18 14:56	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 14:56	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/16/18 14:56	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 14:56	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 14:56	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/16/18 14:56	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/16/18 14:56	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 14:56	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/16/18 14:56	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/16/18 14:56	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/16/18 14:56	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 14:56	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		03/16/18 14:56	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/16/18 14:56	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/16/18 14:56	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/16/18 14:56	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/16/18 14:56	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 14:56	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 14:56	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/16/18 14:56	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 14:56	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		03/16/18 14:56	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 14:56	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		03/16/18 14:56	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/16/18 14:56	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: Trip Blank **Lab ID: 30246135001** Collected: 03/13/18 00:01 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 14:56	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/16/18 14:56	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/16/18 14:56	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		03/16/18 14:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		03/16/18 14:56	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120		1		03/16/18 14:56	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/16/18 14:56	2037-26-5	
Dibromofluoromethane (S)	104	%	80-120		1		03/16/18 14:56	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO02-PZM006 **Lab ID: 30246135002** Collected: 03/13/18 10:05 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 17:52	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:52	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 17:52	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:52	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 17:52	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:52	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 17:52	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 17:52	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:52	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 17:52	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 17:52	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:52	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:52	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 17:52	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 17:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 17:52	108-10-1	
Acetone	**18.3J**	ug/L	50.0	14.2	5		03/16/18 17:52	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 17:52	107-13-1	
Benzene	**104000**	ug/L	1000	240	1000		03/16/18 19:21	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 17:52	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:52	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:52	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 17:52	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:52	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 17:52	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 17:52	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 17:52	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 17:52	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 17:52	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:52	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 17:52	74-95-3	
Ethylbenzene	**261**	ug/L	5.0	1.6	5		03/16/18 17:52	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 17:52	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 17:52	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 17:52	75-09-2	
Naphthalene	**314**	ug/L	10.0	4.1	5		03/16/18 17:52	91-20-3	
Styrene	**5.8**	ug/L	5.0	0.85	5		03/16/18 17:52	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:52	127-18-4	
Toluene	**32.0**	ug/L	5.0	1.5	5		03/16/18 17:52	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 17:52	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:52	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 17:52	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:52	75-01-4	
Xylene (Total)	**376**	ug/L	15.0	3.9	5		03/16/18 17:52	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 17:52	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO02-PZM006 **Lab ID: 30246135002** Collected: 03/13/18 10:05 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 17:52	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 17:52	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 17:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 17:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		03/16/18 17:52	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	80-120		5		03/16/18 17:52	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		03/16/18 17:52	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		03/16/18 17:52	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO41-PZM001 **Lab ID: 30246135003** Collected: 03/13/18 10:30 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 18:18	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:18	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 18:18	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:18	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 18:18	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:18	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 18:18	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 18:18	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:18	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 18:18	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 18:18	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:18	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:18	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 18:18	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 18:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 18:18	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/16/18 18:18	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 18:18	107-13-1	
Benzene	**200**	ug/L	5.0	1.2	5		03/16/18 18:18	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 18:18	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:18	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:18	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 18:18	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:18	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 18:18	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 18:18	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 18:18	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 18:18	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 18:18	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:18	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 18:18	74-95-3	
Ethylbenzene	**4.8J**	ug/L	5.0	1.6	5		03/16/18 18:18	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 18:18	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 18:18	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 18:18	75-09-2	
Naphthalene	**16.0**	ug/L	10.0	4.1	5		03/16/18 18:18	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		03/16/18 18:18	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:18	127-18-4	
Toluene	**66.0**	ug/L	5.0	1.5	5		03/16/18 18:18	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 18:18	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:18	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 18:18	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:18	75-01-4	
Xylene (Total)	**44.5**	ug/L	15.0	3.9	5		03/16/18 18:18	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 18:18	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO41-PZM001 **Lab ID: 30246135003** Collected: 03/13/18 10:30 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 18:18	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 18:18	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 18:18	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 18:18	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	79-129		5		03/16/18 18:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		5		03/16/18 18:18	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		03/16/18 18:18	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		5		03/16/18 18:18	1868-53-7	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO41-PZM036 **Lab ID: 30246135004** Collected: 03/13/18 11:00 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 18:43	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:43	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 18:43	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:43	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 18:43	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:43	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 18:43	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 18:43	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:43	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 18:43	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 18:43	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:43	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 18:43	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 18:43	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 18:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 18:43	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/16/18 18:43	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 18:43	107-13-1	
Benzene	**121000**	ug/L	500	120	500		03/16/18 17:14	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 18:43	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:43	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:43	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 18:43	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:43	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 18:43	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 18:43	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 18:43	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 18:43	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 18:43	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:43	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 18:43	74-95-3	
Ethylbenzene	**659**	ug/L	5.0	1.6	5		03/16/18 18:43	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 18:43	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 18:43	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 18:43	75-09-2	
Naphthalene	**325**	ug/L	10.0	4.1	5		03/16/18 18:43	91-20-3	
Styrene	**314**	ug/L	5.0	0.85	5		03/16/18 18:43	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:43	127-18-4	
Toluene	**40500**	ug/L	500	150	500		03/16/18 17:14	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 18:43	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 18:43	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 18:43	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 18:43	75-01-4	
Xylene (Total)	**11500**	ug/L	1500	390	500		03/16/18 17:14	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 18:43	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO41-PZM036 **Lab ID: 30246135004** Collected: 03/13/18 11:00 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 18:43	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 18:43	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 18:43	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 18:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		5		03/16/18 18:43	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	80-120		5		03/16/18 18:43	17060-07-0	
Toluene-d8 (S)	102	%	80-120		5		03/16/18 18:43	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		03/16/18 18:43	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO36-PZM008 **Lab ID: 30246135005** Collected: 03/13/18 11:35 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 19:08	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:08	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:08	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:08	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 19:08	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:08	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 19:08	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 19:08	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:08	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 19:08	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:08	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:08	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:08	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 19:08	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 19:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 19:08	108-10-1	
Acetone	**18.6J**	ug/L	50.0	14.2	5		03/16/18 19:08	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 19:08	107-13-1	
Benzene	**3830**	ug/L	100	24.0	100		03/16/18 17:40	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:08	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:08	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:08	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 19:08	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:08	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:08	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 19:08	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 19:08	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 19:08	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 19:08	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:08	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 19:08	74-95-3	
Ethylbenzene	**7.4**	ug/L	5.0	1.6	5		03/16/18 19:08	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 19:08	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:08	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 19:08	75-09-2	
Naphthalene	**113**	ug/L	10.0	4.1	5		03/16/18 19:08	91-20-3	
Styrene	**1.9J**	ug/L	5.0	0.85	5		03/16/18 19:08	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:08	127-18-4	
Toluene	**628**	ug/L	5.0	1.5	5		03/16/18 19:08	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 19:08	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:08	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 19:08	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:08	75-01-4	
Xylene (Total)	**392**	ug/L	15.0	3.9	5		03/16/18 19:08	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 19:08	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO36-PZM008 **Lab ID: 30246135005** Collected: 03/13/18 11:35 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:08	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 19:08	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 19:08	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 19:08	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	79-129		5		03/16/18 19:08	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		5		03/16/18 19:08	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		03/16/18 19:08	2037-26-5	
Dibromofluoromethane (S)	95	%	80-120		5		03/16/18 19:08	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO36-PZM043 **Lab ID: 30246135006** Collected: 03/13/18 12:15 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 19:33	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:33	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:33	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:33	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 19:33	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:33	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 19:33	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 19:33	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:33	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 19:33	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:33	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:33	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:33	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 19:33	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 19:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 19:33	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/16/18 19:33	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 19:33	107-13-1	
Benzene	**27900**	ug/L	100	24.0	100		03/16/18 18:05	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:33	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:33	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:33	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 19:33	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:33	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:33	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 19:33	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 19:33	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 19:33	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 19:33	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:33	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 19:33	74-95-3	
Ethylbenzene	**45.5**	ug/L	5.0	1.6	5		03/16/18 19:33	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 19:33	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:33	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 19:33	75-09-2	
Naphthalene	**655**	ug/L	10.0	4.1	5		03/16/18 19:33	91-20-3	
Styrene	**9.9**	ug/L	5.0	0.85	5		03/16/18 19:33	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:33	127-18-4	
Toluene	**3400**	ug/L	100	30.0	100		03/16/18 18:05	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 19:33	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:33	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 19:33	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:33	75-01-4	
Xylene (Total)	**740**	ug/L	15.0	3.9	5		03/16/18 19:33	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 19:33	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO36-PZM043 **Lab ID: 30246135006** Collected: 03/13/18 12:15 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:33	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 19:33	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 19:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 19:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		5		03/16/18 19:33	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		5		03/16/18 19:33	17060-07-0	
Toluene-d8 (S)	100	%	80-120		5		03/16/18 19:33	2037-26-5	
Dibromofluoromethane (S)	95	%	80-120		5		03/16/18 19:33	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO38-PZM006 **Lab ID: 30246135007** Collected: 03/13/18 13:34 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 19:59	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:59	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:59	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:59	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 19:59	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:59	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 19:59	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 19:59	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:59	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 19:59	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:59	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:59	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 19:59	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 19:59	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 19:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 19:59	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/16/18 19:59	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 19:59	107-13-1	
Benzene	**5250**	ug/L	100	24.0	100		03/16/18 18:30	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:59	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:59	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:59	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 19:59	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:59	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 19:59	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 19:59	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 19:59	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 19:59	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 19:59	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:59	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 19:59	74-95-3	
Ethylbenzene	**66.8**	ug/L	5.0	1.6	5		03/16/18 19:59	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 19:59	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:59	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 19:59	75-09-2	
Naphthalene	**1350**	ug/L	10.0	4.1	5		03/16/18 19:59	91-20-3	
Styrene	**41.0**	ug/L	5.0	0.85	5		03/16/18 19:59	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:59	127-18-4	
Toluene	**1260**	ug/L	5.0	1.5	5		03/16/18 19:59	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 19:59	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 19:59	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 19:59	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 19:59	75-01-4	
Xylene (Total)	**559**	ug/L	15.0	3.9	5		03/16/18 19:59	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 19:59	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO38-PZM006 **Lab ID: 30246135007** Collected: 03/13/18 13:34 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 19:59	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 19:59	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 19:59	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 19:59	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		5		03/16/18 19:59	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/16/18 19:59	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		03/16/18 19:59	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		5		03/16/18 19:59	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO38-PZM043 **Lab ID: 30246135008** Collected: 03/13/18 14:10 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/16/18 16:11	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 16:11	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 16:11	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 16:11	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/16/18 16:11	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 16:11	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/16/18 16:11	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/16/18 16:11	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 16:11	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/16/18 16:11	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 16:11	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/16/18 16:11	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 16:11	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/16/18 16:11	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/16/18 16:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/16/18 16:11	108-10-1	
Acetone	**3.4J**	ug/L	10.0	2.8	1		03/16/18 16:11	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/16/18 16:11	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/16/18 16:11	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 16:11	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/16/18 16:11	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 16:11	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/16/18 16:11	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 16:11	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 16:11	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/16/18 16:11	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/16/18 16:11	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 16:11	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/16/18 16:11	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/16/18 16:11	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/16/18 16:11	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 16:11	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/16/18 16:11	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/16/18 16:11	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/16/18 16:11	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/16/18 16:11	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/16/18 16:11	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 16:11	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 16:11	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/16/18 16:11	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 16:11	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/16/18 16:11	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 16:11	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/16/18 16:11	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/16/18 16:11	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO38-PZM043 **Lab ID: 30246135008** Collected: 03/13/18 14:10 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 16:11	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/16/18 16:11	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/16/18 16:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/16/18 16:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		1		03/16/18 16:11	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		03/16/18 16:11	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		03/16/18 16:11	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		03/16/18 16:11	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO39-PZM007 **Lab ID: 30246135009** Collected: 03/13/18 14:50 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/16/18 17:27	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 17:27	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 17:27	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 17:27	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/16/18 17:27	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 17:27	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/16/18 17:27	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/16/18 17:27	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 17:27	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/16/18 17:27	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 17:27	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/16/18 17:27	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 17:27	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/16/18 17:27	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/16/18 17:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/16/18 17:27	108-10-1	
Acetone	**4.2J**	ug/L	10.0	2.8	1		03/16/18 17:27	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/16/18 17:27	107-13-1	
Benzene	**370**	ug/L	20.0	4.8	20		03/16/18 16:24	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 17:27	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/16/18 17:27	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 17:27	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/16/18 17:27	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 17:27	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 17:27	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/16/18 17:27	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/16/18 17:27	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 17:27	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/16/18 17:27	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/16/18 17:27	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/16/18 17:27	74-95-3	
Ethylbenzene	**2.1**	ug/L	1.0	0.31	1		03/16/18 17:27	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/16/18 17:27	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/16/18 17:27	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/16/18 17:27	75-09-2	
Naphthalene	**356**	ug/L	40.0	16.4	20		03/16/18 16:24	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/16/18 17:27	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 17:27	127-18-4	
Toluene	**33.5**	ug/L	1.0	0.30	1		03/16/18 17:27	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/16/18 17:27	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 17:27	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/16/18 17:27	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 17:27	75-01-4	
Xylene (Total)	**11.8**	ug/L	3.0	0.78	1		03/16/18 17:27	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/16/18 17:27	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO39-PZM007 **Lab ID: 30246135009** Collected: 03/13/18 14:50 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 17:27	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/16/18 17:27	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/16/18 17:27	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/16/18 17:27	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		03/16/18 17:27	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120		1		03/16/18 17:27	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		03/16/18 17:27	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		03/16/18 17:27	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO39-PZM042 **Lab ID: 30246135010** Collected: 03/13/18 15:15 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 20:24	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 20:24	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 20:24	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 20:24	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 20:24	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 20:24	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 20:24	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 20:24	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 20:24	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 20:24	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 20:24	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 20:24	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 20:24	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 20:24	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 20:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 20:24	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/16/18 20:24	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 20:24	107-13-1	
Benzene	**1890**	ug/L	5.0	1.2	5		03/16/18 20:24	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 20:24	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 20:24	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 20:24	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 20:24	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 20:24	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 20:24	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 20:24	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 20:24	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 20:24	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 20:24	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 20:24	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 20:24	74-95-3	
Ethylbenzene	**14.7**	ug/L	5.0	1.6	5		03/16/18 20:24	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 20:24	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 20:24	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 20:24	75-09-2	
Naphthalene	**947**	ug/L	10.0	4.1	5		03/16/18 20:24	91-20-3	
Styrene	**19.0**	ug/L	5.0	0.85	5		03/16/18 20:24	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 20:24	127-18-4	
Toluene	**568**	ug/L	5.0	1.5	5		03/16/18 20:24	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 20:24	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 20:24	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 20:24	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 20:24	75-01-4	
Xylene (Total)	**129**	ug/L	15.0	3.9	5		03/16/18 20:24	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 20:24	156-59-2	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Sample: CO39-PZM042 **Lab ID: 30246135010** Collected: 03/13/18 15:15 Received: 03/13/18 23:10 Matrix: Water

Comments: • Time of collection not listed on COC. Time obtained from sample vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 20:24	10061-01-5	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 20:24	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 20:24	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 20:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		5		03/16/18 20:24	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/16/18 20:24	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		03/16/18 20:24	2037-26-5	
Dibromofluoromethane (S)	97	%	80-120		5		03/16/18 20:24	1868-53-7	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

QC Batch: 291561 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30246135001, 30246135002, 30246135003, 30246135004, 30246135005, 30246135006, 30246135007, 30246135008, 30246135009, 30246135010

METHOD BLANK: 1427047 Matrix: Water
Associated Lab Samples: 30246135001, 30246135002, 30246135003, 30246135004, 30246135005, 30246135006, 30246135007, 30246135008, 30246135009, 30246135010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	03/16/18 14:05	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	03/16/18 14:05	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	03/16/18 14:05	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	03/16/18 14:05	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	03/16/18 14:05	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	03/16/18 14:05	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	03/16/18 14:05	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	03/16/18 14:05	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	03/16/18 14:05	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	03/16/18 14:05	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	03/16/18 14:05	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	03/16/18 14:05	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	03/16/18 14:05	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	03/16/18 14:05	
2-Hexanone	ug/L	10.0 U	10.0	0.66	03/16/18 14:05	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	03/16/18 14:05	
Acetone	ug/L	10.0 U	10.0	2.8	03/16/18 14:05	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	03/16/18 14:05	
Benzene	ug/L	1.0 U	1.0	0.24	03/16/18 14:05	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	03/16/18 14:05	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	03/16/18 14:05	
Bromoform	ug/L	1.0 U	1.0	0.32	03/16/18 14:05	
Bromomethane	ug/L	1.0 U	1.0	0.49	03/16/18 14:05	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	03/16/18 14:05	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	03/16/18 14:05	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	03/16/18 14:05	
Chloroethane	ug/L	1.0 U	1.0	0.55	03/16/18 14:05	
Chloroform	ug/L	1.0 U	1.0	0.30	03/16/18 14:05	
Chloromethane	ug/L	1.0 U	1.0	0.68	03/16/18 14:05	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	03/16/18 14:05	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	03/16/18 14:05	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	03/16/18 14:05	
Dibromomethane	ug/L	1.0 U	1.0	0.40	03/16/18 14:05	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	03/16/18 14:05	
Iodomethane	ug/L	50.0 U	50.0	0.67	03/16/18 14:05	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	03/16/18 14:05	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	03/16/18 14:05	
Naphthalene	ug/L	2.0 U	2.0	0.82	03/16/18 14:05	
Styrene	ug/L	1.0 U	1.0	0.17	03/16/18 14:05	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	03/16/18 14:05	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

METHOD BLANK: 1427047 Matrix: Water

Associated Lab Samples: 30246135001, 30246135002, 30246135003, 30246135004, 30246135005, 30246135006, 30246135007, 30246135008, 30246135009, 30246135010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	03/16/18 14:05	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	03/16/18 14:05	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	03/16/18 14:05	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	03/16/18 14:05	
Trichloroethene	ug/L	1.0 U	1.0	0.39	03/16/18 14:05	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	03/16/18 14:05	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	03/16/18 14:05	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	03/16/18 14:05	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	03/16/18 14:05	
1,2-Dichloroethane-d4 (S)	%	94	80-120		03/16/18 14:05	
4-Bromofluorobenzene (S)	%	105	79-129		03/16/18 14:05	
Dibromofluoromethane (S)	%	103	80-120		03/16/18 14:05	
Toluene-d8 (S)	%	94	80-120		03/16/18 14:05	

LABORATORY CONTROL SAMPLE: 1427048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	
1,1,1-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	65-127	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	18.7	94	70-130	
1,2,3-Trichloropropane	ug/L	20	19.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	94	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	20	18.0	90	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	19.0	95	72-170	
2-Hexanone	ug/L	20	18.5	93	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	93	66-150	
Acetone	ug/L	20	22.0	110	30-179	
Acrylonitrile	ug/L	20	19.3	97	48-172	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	22.6	113	70-130	
Bromodichloromethane	ug/L	20	16.9	84	70-130	
Bromoform	ug/L	20	18.0	90	70-130	
Bromomethane	ug/L	20	21.5	107	47-174	
Carbon disulfide	ug/L	20	17.9	90	43-133	
Carbon tetrachloride	ug/L	20	18.6	93	56-143	
Chlorobenzene	ug/L	20	20.1	101	70-130	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

LABORATORY CONTROL SAMPLE: 1427048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	18.9	94	67-139	
Chloroform	ug/L	20	18.0	90	70-130	
Chloromethane	ug/L	20	21.2	106	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.1	86	70-130	
Dibromochloromethane	ug/L	20	18.9	95	70-130	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	19.1	95	70-130	
Iodomethane	ug/L	20	11.3J	56	10-175	
Methyl-tert-butyl ether	ug/L	20	18.1	90	70-130	
Methylene Chloride	ug/L	20	19.3	97	55-144	
Naphthalene	ug/L	20	21.2	106	70-130	
Styrene	ug/L	20	19.7	98	70-130	
Tetrachloroethene	ug/L	20	20.5	103	70-130	
Toluene	ug/L	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.6	73	27-116	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	25.8	129	60-148	
Vinyl acetate	ug/L	20	15.9	79	30-181	
Vinyl chloride	ug/L	20	20.6	103	70-130	
Xylene (Total)	ug/L	60	59.8	100	70-130	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			104	79-129	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427249 1427250

Parameter	Units	30246422002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.7	17.5	88	87	51-124	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.9	17.3	85	86	79-129	2	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.2	17.9	86	90	57-118	4	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	18.2	18.2	91	91	68-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.9	18.7	94	94	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.0	17.9	90	89	63-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.6	17.8	88	89	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.7	15.7	73	78	53-120	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.2	18.2	91	91	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.8	19.3	94	97	72-119	3	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.5	17.1	87	85	69-116	2	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.2	18.1	91	90	63-118	1	30	

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427249 1427250

Parameter	Units	30246422002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	18.6	19.7	93	98	72-118	5	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	21.1	21.7	106	108	72-168	3	30	
2-Hexanone	ug/L	10.0 U	20	20	17.5	17.0	88	85	66-143	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.6	20.7	108	103	67-145	4	30	
Acetone	ug/L	3.6J	20	20	24.4	23.4	104	99	15-175	4	30	
Acrylonitrile	ug/L	4.0 U	20	20	18.0	17.5	90	88	36-165	2	30	
Benzene	ug/L	19.2	20	20	37.1	36.5	89	86	67-121	2	30	
Bromochloromethane	ug/L	1.0 U	20	20	21.3	21.6	107	108	62-128	1	30	
Bromodichloromethane	ug/L	1.0 U	20	20	17.6	17.8	88	89	66-127	1	30	
Bromoform	ug/L	1.0 U	20	20	15.2	15.0	76	75	71-127	1	30	
Bromomethane	ug/L	1.0 U	20	20	11.2	9.5	56	47	10-156	17	30	
Carbon disulfide	ug/L	1.0 U	20	20	14.0	14.3	70	71	45-131	2	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.3	17.1	87	86	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	18.4	18.6	92	93	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	19.1	19.0	95	95	60-156	1	30	
Chloroform	ug/L	1.0 U	20	20	17.1	17.1	85	86	69-115	0	30	
Chloromethane	ug/L	1.0 U	20	20	21.4	20.4	107	102	52-145	5	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.5	17.1	87	85	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.7	16.1	78	80	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.5	16.6	83	83	64-131	0	30	
Dibromomethane	ug/L	1.0 U	20	20	20.8	20.3	104	101	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	17.8	18.1	89	90	70-127	2	30	
Iodomethane	ug/L	50.0 U	20	20	5.6J	7.2J	28	36	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.6	17.3	88	87	79-135	2	30	
Methylene Chloride	ug/L	1.0 U	20	20	16.9	17.5	85	88	54-133	4	30	
Naphthalene	ug/L	2.0 U	20	20	17.4	18.3	87	92	62-131	5	30	
Styrene	ug/L	1.0 U	20	20	17.9	17.7	89	88	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.9	19.6	95	98	77-125	4	30	
Toluene	ug/L	1.0 U	20	20	17.8	18.0	89	90	77-125	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.5	17.2	87	86	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.4	15.7	77	79	52-125	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	6.9	5.6	34	28	13-100	20	30	
Trichloroethene	ug/L	1.0 U	20	20	19.2	19.2	96	96	74-128	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	26.9	25.7	135	129	54-164	5	30	
Vinyl acetate	ug/L	10.0 U	20	20	15.4	15.2	77	76	15-173	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	22.0	21.2	110	106	60-131	4	30	
Xylene (Total)	ug/L	3.0 U	60	60	53.3	54.0	89	90	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%						99	98	80-120			
4-Bromofluorobenzene (S)	%						104	108	79-129			
Dibromofluoromethane (S)	%						109	106	80-120			
Toluene-d8 (S)	%						95	96	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALIFIERS

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Coke Oven 1st Q GW
Pace Project No.: 30246135

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30246135001	**Trip Blank**	EPA 8260B	291561		
30246135002	**CO02-PZM006**	EPA 8260B	291561		
30246135003	**CO41-PZM001**	EPA 8260B	291561		
30246135004	**CO41-PZM036**	EPA 8260B	291561		
30246135005	**CO36-PZM008**	EPA 8260B	291561		
30246135006	**CO36-PZM043**	EPA 8260B	291561		
30246135007	**CO38-PZM006**	EPA 8260B	291561		
30246135008	**CO38-PZM043**	EPA 8260B	291561		
30246135009	**CO39-PZM007**	EPA 8260B	291561		
30246135010	**CO39-PZM042**	EPA 8260B	291561		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

WO# : 30246135

30246135

Page: 1 of 1

Section A
Required Client Information:

Company:	EnviroAnalytics Group
Address:	1430 Sparrows Point Blvd
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5-day

Section B

PO Number:	
Project Name:	Coke Oven 1st Q GW
Project Number:	170384m-1-2

Section C
Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location
STATE: MD

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Other	DI Water	Analysis Test Y/N: VOC/8260B	SVOC 8270D voc +Naph's	DRO/8015B	GRO/8015B	METALS (total)/6010C	Total Mercury/7471A or 7470A	Total Cyanide/9012A	Hexavalent Chromium (total)/7196A	METALS (dissolved)/6010C	Hexavalent Chromium (dissolved)/7196A	Available Cyanide/OIA1677	Oil and Grease/1664 (aq)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N	N							Y	Y				
1	Trip Blank	WT	G			3/13/18	—		2				2					X														
2	C002-PZM006	WT	G						3				3						X													
3	C041-PZM001	WT	G						3				3						X													
4	C041-PZM036	WT	G						3				3						X													
5	C036-PZM008	WT	G						3				3						X													
6	C036-PZM043	WT	G						3				3						X													
7	C038-PZM006	WT	G						3				3						X													
8	C039-PZM043	WT	G						3				3						X													
9	C039-PZM007	WT	G						3				3						X													
10	C039-PZM042	WT	G						3				3						X													
11																																
12																																

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 001 002 003 004 005 006 007 008 009 010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Conditions: Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Data Package Required? (Y/N): Y		3/13/18	1600		3-13-18	1600			
Data Validation Required? (Y/N): Y If Pace		3-13-18	1930		3-13-18	1945			
If data package is required, attach data package checklist.		3/13/18	2310		3/13/18	2310	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perrin
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 3/13/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: EnviroAna Project # 30246135

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label AM
LIMS Login AM

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 3.8 °C Correction Factor: +0.0 °C Final Temp: 3.8 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A Date and Initials of person examining contents: AM 3-14-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: AM 3-14-18 -Includes date/time/ID Matrix: WT	X	X		5. Times on vials below
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation.			X	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			X	
exceptions: (VOA), coliform, TOC, O&G, Phenolics				Initial when completed AM Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	X			17. 2 trip blanks
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

002 - 1005 006 - 1215 010 - 1515
003 - 1030 007 - 1334
004 - 1100 008 - 1410
005 - 1135 009 - 1450

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 20, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30246238001	**Trip Blank**	Water	03/14/18 00:01	03/14/18 23:20
30246238002	**C037-PZM038**	Water	03/14/18 09:45	03/14/18 23:20
30246238003	**C027-PZM012**	Water	03/14/18 10:20	03/14/18 23:20
30246238004	**C027-PZM046**	Water	03/14/18 11:10	03/14/18 23:20
30246238005	**C040-PZM008**	Water	03/14/18 11:50	03/14/18 23:20
30246238006	**C042-PZM004**	Water	03/14/18 12:25	03/14/18 23:20
30246238007	**C093-PZMXXX**	Water	03/14/18 13:40	03/14/18 23:20
30246238008	**C018-PZM006**	Water	03/14/18 14:20	03/14/18 23:20
30246238009	**C030-PZM015**	Water	03/14/18 15:10	03/14/18 23:20

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SAMPLE ANALYTE COUNT

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30246238001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30246238002	**C037-PZM038**	EPA 8260B	MAK	53	PASI-PA
30246238003	**C027-PZM012**	EPA 8260B	MAK	53	PASI-PA
30246238004	**C027-PZM046**	EPA 8260B	MAK	53	PASI-PA
30246238005	**C040-PZM008**	EPA 8260B	MAK	53	PASI-PA
30246238006	**C042-PZM004**	EPA 8260B	MAK	53	PASI-PA
30246238007	**C093-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30246238008	**C018-PZM006**	EPA 8260B	MAK	53	PASI-PA
30246238009	**C030-PZM015**	EPA 8260B	MAK	53	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: Trip Blank **Lab ID: 30246238001** Collected: 03/14/18 00:01 Received: 03/14/18 23:20 Matrix: Water

Comments: • Headspace in both TB vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 16:15	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 16:15	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 16:15	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 16:15	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 16:15	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 16:15	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 16:15	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		03/15/18 16:15	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 16:15	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 16:15	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 16:15	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 16:15	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 16:15	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		03/15/18 16:15	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		03/15/18 16:15	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		03/15/18 16:15	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		03/15/18 16:15	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 16:15	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/15/18 16:15	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 16:15	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 16:15	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 16:15	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 16:15	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 16:15	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 16:15	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 16:15	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 16:15	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 16:15	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 16:15	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 16:15	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 16:15	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 16:15	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		03/15/18 16:15	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 16:15	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 16:15	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/15/18 16:15	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 16:15	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 16:15	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 16:15	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 16:15	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 16:15	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		03/15/18 16:15	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 16:15	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		03/15/18 16:15	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 16:15	156-59-2	

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(724)850-5600

ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: Trip Blank **Lab ID: 30246238001** Collected: 03/14/18 00:01 Received: 03/14/18 23:20 Matrix: Water

Comments: • Headspace in both TB vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 16:15	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 16:15	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 16:15	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		03/15/18 16:15	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	79-129		1		03/15/18 16:15	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		03/15/18 16:15	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		03/15/18 16:15	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		03/15/18 16:15	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C037-PZM038 **Lab ID: 30246238002** Collected: 03/14/18 09:45 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 19:39	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 19:39	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 19:39	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 19:39	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 19:39	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 19:39	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 19:39	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 19:39	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 19:39	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 19:39	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 19:39	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 19:39	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 19:39	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 19:39	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 19:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 19:39	108-10-1	
Acetone	**5.8J**	ug/L	10.0	2.8	1		03/15/18 19:39	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 19:39	107-13-1	
Benzene	**9350**	ug/L	100	24.0	100		03/15/18 18:10	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 19:39	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 19:39	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 19:39	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 19:39	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 19:39	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 19:39	56-23-5	
Chlorobenzene	**0.47J**	ug/L	1.0	0.15	1		03/15/18 19:39	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 19:39	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 19:39	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 19:39	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 19:39	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 19:39	74-95-3	
Ethylbenzene	**263**	ug/L	1.0	0.31	1		03/15/18 19:39	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 19:39	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 19:39	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 19:39	75-09-2	
Naphthalene	**1260**	ug/L	200	82.0	100		03/15/18 18:10	91-20-3	
Styrene	**368**	ug/L	1.0	0.17	1		03/15/18 19:39	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 19:39	127-18-4	
Toluene	**6570**	ug/L	100	30.0	100		03/15/18 18:10	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 19:39	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 19:39	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 19:39	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 19:39	75-01-4	
Xylene (Total)	**1880**	ug/L	300	78.0	100		03/15/18 18:10	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 19:39	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 19:39	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C037-PZM038 **Lab ID: 30246238002** Collected: 03/14/18 09:45 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 19:39	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 19:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 19:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		1		03/15/18 19:39	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		1		03/15/18 19:39	17060-07-0	
Toluene-d8 (S)	103	%	80-120		1		03/15/18 19:39	2037-26-5	
Dibromofluoromethane (S)	97	%	80-120		1		03/15/18 19:39	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C027-PZM012 **Lab ID: 30246238003** Collected: 03/14/18 10:20 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 21:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 21:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/15/18 21:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/15/18 21:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/15/18 21:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/15/18 21:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 21:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 21:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/15/18 21:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/15/18 21:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/15/18 21:46	108-10-1	
Acetone	**16.9J**	ug/L	50.0	14.2	5		03/15/18 21:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/15/18 21:46	107-13-1	
Benzene	**10500**	ug/L	100	24.0	100		03/15/18 18:36	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 21:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/15/18 21:46	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 21:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/15/18 21:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 21:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/15/18 21:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/15/18 21:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 21:46	74-95-3	
Ethylbenzene	**114**	ug/L	5.0	1.6	5		03/15/18 21:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/15/18 21:46	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 21:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/15/18 21:46	75-09-2	
Naphthalene	**913**	ug/L	10.0	4.1	5		03/15/18 21:46	91-20-3	
Styrene	**120**	ug/L	5.0	0.85	5		03/15/18 21:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:46	127-18-4	
Toluene	**3390**	ug/L	100	30.0	100		03/15/18 18:36	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 21:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 21:46	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/15/18 21:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 21:46	75-01-4	
Xylene (Total)	**1040**	ug/L	15.0	3.9	5		03/15/18 21:46	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/15/18 21:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 21:46	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C027-PZM012 **Lab ID: 30246238003** Collected: 03/14/18 10:20 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/15/18 21:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/15/18 21:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/15/18 21:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		03/15/18 21:46	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	80-120		5		03/15/18 21:46	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/15/18 21:46	2037-26-5	
Dibromofluoromethane (S)	94	%	80-120		5		03/15/18 21:46	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C027-PZM046 **Lab ID: 30246238004** Collected: 03/14/18 11:10 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 23:02	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:02	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:02	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:02	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/15/18 23:02	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:02	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/15/18 23:02	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/15/18 23:02	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:02	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/15/18 23:02	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:02	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:02	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:02	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/15/18 23:02	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/15/18 23:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/15/18 23:02	108-10-1	
Acetone	**23.3J**	ug/L	50.0	14.2	5		03/15/18 23:02	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/15/18 23:02	107-13-1	
Benzene	**215000**	ug/L	1000	240	1000		03/16/18 20:49	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/15/18 23:02	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/15/18 23:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 23:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/15/18 23:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/15/18 23:02	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:02	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 23:02	74-95-3	
Ethylbenzene	**611**	ug/L	5.0	1.6	5		03/15/18 23:02	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/15/18 23:02	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:02	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/15/18 23:02	75-09-2	
Naphthalene	**7240**	ug/L	2000	820	1000		03/16/18 20:49	91-20-3	
Styrene	**126**	ug/L	5.0	0.85	5		03/15/18 23:02	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:02	127-18-4	
Toluene	**33700**	ug/L	1000	300	1000		03/16/18 20:49	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 23:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:02	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/15/18 23:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:02	75-01-4	
Xylene (Total)	**7290**	ug/L	3000	780	1000		03/16/18 20:49	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/15/18 23:02	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:02	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C027-PZM046 **Lab ID: 30246238004** Collected: 03/14/18 11:10 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/15/18 23:02	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/15/18 23:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/15/18 23:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	79-129		5		03/15/18 23:02	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120		5		03/15/18 23:02	17060-07-0	
Toluene-d8 (S)	101	%	80-120		5		03/15/18 23:02	2037-26-5	
Dibromofluoromethane (S)	96	%	80-120		5		03/15/18 23:02	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C040-PZM008 **Lab ID: 30246238005** Collected: 03/14/18 11:50 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 17:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 17:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 17:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 17:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 17:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 17:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 17:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 17:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 17:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 17:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 17:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 17:06	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		03/15/18 17:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 17:06	107-13-1	
Benzene	**61.1**	ug/L	1.0	0.24	1		03/15/18 17:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 17:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 17:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 17:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 17:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 17:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 17:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 17:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 17:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 17:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 17:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 17:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 17:06	75-09-2	
Naphthalene	**27.0**	ug/L	2.0	0.82	1		03/15/18 17:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/15/18 17:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 17:06	127-18-4	
Toluene	**3.7**	ug/L	1.0	0.30	1		03/15/18 17:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 17:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 17:06	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 17:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 17:06	75-01-4	
Xylene (Total)	**3.4**	ug/L	3.0	0.78	1		03/15/18 17:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 17:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 17:06	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C040-PZM008 **Lab ID: 30246238005** Collected: 03/14/18 11:50 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 17:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 17:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 17:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		1		03/15/18 17:06	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120		1		03/15/18 17:06	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		03/15/18 17:06	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		1		03/15/18 17:06	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C042-PZM004 **Lab ID: 30246238006** Collected: 03/14/18 12:25 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/15/18 19:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 19:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 19:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 19:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/15/18 19:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 19:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/15/18 19:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/15/18 19:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 19:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/15/18 19:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 19:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/15/18 19:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/15/18 19:14	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/15/18 19:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/15/18 19:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/15/18 19:14	108-10-1	
Acetone	**29.0**	ug/L	10.0	2.8	1		03/15/18 19:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/15/18 19:14	107-13-1	
Benzene	**72.5**	ug/L	1.0	0.24	1		03/15/18 19:14	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 19:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/15/18 19:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 19:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/15/18 19:14	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 19:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/15/18 19:14	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/15/18 19:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/15/18 19:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/15/18 19:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/15/18 19:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/15/18 19:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/15/18 19:14	74-95-3	
Ethylbenzene	**7.6**	ug/L	1.0	0.31	1		03/15/18 19:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/15/18 19:14	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/15/18 19:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/15/18 19:14	75-09-2	
Naphthalene	**22.1**	ug/L	2.0	0.82	1		03/15/18 19:14	91-20-3	
Styrene	**12.4**	ug/L	1.0	0.17	1		03/15/18 19:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/15/18 19:14	127-18-4	
Toluene	**205**	ug/L	1.0	0.30	1		03/15/18 19:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/15/18 19:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/15/18 19:14	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/15/18 19:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/15/18 19:14	75-01-4	
Xylene (Total)	**219**	ug/L	3.0	0.78	1		03/15/18 19:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/15/18 19:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/15/18 19:14	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C042-PZM004 **Lab ID: 30246238006** Collected: 03/14/18 12:25 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/15/18 19:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/15/18 19:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/15/18 19:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	79-129		1		03/15/18 19:14	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		1		03/15/18 19:14	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		03/15/18 19:14	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		1		03/15/18 19:14	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C093-PZMXXX **Lab ID: 30246238007** Collected: 03/14/18 13:40 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 23:28	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:28	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:28	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:28	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/15/18 23:28	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:28	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/15/18 23:28	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/15/18 23:28	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:28	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/15/18 23:28	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:28	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:28	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:28	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/15/18 23:28	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/15/18 23:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/15/18 23:28	108-10-1	
Acetone	**19.9J**	ug/L	50.0	14.2	5		03/15/18 23:28	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/15/18 23:28	107-13-1	
Benzene	**117000**	ug/L	1000	240	1000		03/15/18 21:08	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:28	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:28	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:28	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/15/18 23:28	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:28	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:28	56-23-5	
Chlorobenzene	**7.3**	ug/L	5.0	0.75	5		03/15/18 23:28	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 23:28	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/15/18 23:28	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/15/18 23:28	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:28	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 23:28	74-95-3	
Ethylbenzene	**812**	ug/L	5.0	1.6	5		03/15/18 23:28	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/15/18 23:28	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:28	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/15/18 23:28	75-09-2	
Naphthalene	**1540**	ug/L	10.0	4.1	5		03/15/18 23:28	91-20-3	
Styrene	**735**	ug/L	5.0	0.85	5		03/15/18 23:28	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:28	127-18-4	
Toluene	**27100**	ug/L	1000	300	1000		03/15/18 21:08	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 23:28	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:28	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/15/18 23:28	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:28	75-01-4	
Xylene (Total)	**7240**	ug/L	3000	780	1000		03/15/18 21:08	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/15/18 23:28	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:28	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C093-PZMXXX **Lab ID: 30246238007** Collected: 03/14/18 13:40 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/15/18 23:28	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/15/18 23:28	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/15/18 23:28	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		5		03/15/18 23:28	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	80-120		5		03/15/18 23:28	17060-07-0	
Toluene-d8 (S)	105	%	80-120		5		03/15/18 23:28	2037-26-5	
Dibromofluoromethane (S)	95	%	80-120		5		03/15/18 23:28	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C018-PZM006 **Lab ID: 30246238008** Collected: 03/14/18 14:20 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 23:53	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:53	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:53	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:53	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/15/18 23:53	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:53	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/15/18 23:53	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/15/18 23:53	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:53	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/15/18 23:53	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:53	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:53	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 23:53	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/15/18 23:53	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/15/18 23:53	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/15/18 23:53	108-10-1	
Acetone	**64.5**	ug/L	50.0	14.2	5		03/15/18 23:53	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/15/18 23:53	107-13-1	
Benzene	**251000**	ug/L	2000	480	2000		03/15/18 21:34	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:53	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:53	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:53	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/15/18 23:53	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:53	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 23:53	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/15/18 23:53	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 23:53	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/15/18 23:53	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/15/18 23:53	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:53	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 23:53	74-95-3	
Ethylbenzene	**51.4**	ug/L	5.0	1.6	5		03/15/18 23:53	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/15/18 23:53	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:53	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/15/18 23:53	75-09-2	
Naphthalene	**182**	ug/L	10.0	4.1	5		03/15/18 23:53	91-20-3	
Styrene	**4.4J**	ug/L	5.0	0.85	5		03/15/18 23:53	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:53	127-18-4	
Toluene	**1170**	ug/L	5.0	1.5	5		03/15/18 23:53	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 23:53	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 23:53	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/15/18 23:53	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 23:53	75-01-4	
Xylene (Total)	**1100**	ug/L	15.0	3.9	5		03/15/18 23:53	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/15/18 23:53	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 23:53	10061-01-5	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C018-PZM006 **Lab ID: 30246238008** Collected: 03/14/18 14:20 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/15/18 23:53	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/15/18 23:53	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/15/18 23:53	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		03/15/18 23:53	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	80-120		5		03/15/18 23:53	17060-07-0	
Toluene-d8 (S)	100	%	80-120		5		03/15/18 23:53	2037-26-5	
Dibromofluoromethane (S)	94	%	80-120		5		03/15/18 23:53	1868-53-7	

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ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C030-PZM015 **Lab ID: 30246238009** Collected: 03/14/18 15:10 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 22:37	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:37	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 22:37	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:37	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/15/18 22:37	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:37	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/15/18 22:37	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/15/18 22:37	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:37	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/15/18 22:37	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 22:37	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:37	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/15/18 22:37	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/15/18 22:37	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/15/18 22:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/15/18 22:37	108-10-1	
Acetone	**22.3J**	ug/L	50.0	14.2	5		03/15/18 22:37	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/15/18 22:37	107-13-1	
Benzene	**50800**	ug/L	500	120	500		03/15/18 21:59	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 22:37	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:37	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:37	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/15/18 22:37	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:37	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/15/18 22:37	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/15/18 22:37	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/15/18 22:37	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/15/18 22:37	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/15/18 22:37	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:37	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 22:37	74-95-3	
Ethylbenzene	**84.5**	ug/L	5.0	1.6	5		03/15/18 22:37	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/15/18 22:37	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 22:37	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/15/18 22:37	75-09-2	
Naphthalene	**1720**	ug/L	1000	410	500		03/15/18 21:59	91-20-3	
Styrene	**12.3**	ug/L	5.0	0.85	5		03/15/18 22:37	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:37	127-18-4	
Toluene	**3190**	ug/L	500	150	500		03/15/18 21:59	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/15/18 22:37	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/15/18 22:37	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/15/18 22:37	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/15/18 22:37	75-01-4	
Xylene (Total)	**1210**	ug/L	15.0	3.9	5		03/15/18 22:37	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/15/18 22:37	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/15/18 22:37	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Sample: C030-PZM015 **Lab ID: 30246238009** Collected: 03/14/18 15:10 Received: 03/14/18 23:20 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/15/18 22:37	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/15/18 22:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/15/18 22:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	79-129		5		03/15/18 22:37	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	80-120		5		03/15/18 22:37	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		03/15/18 22:37	2037-26-5	
Dibromofluoromethane (S)	94	%	80-120		5		03/15/18 22:37	1868-53-7	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

QC Batch: 291449 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30246238001, 30246238002, 30246238003, 30246238004, 30246238005, 30246238006, 30246238007, 30246238008, 30246238009

METHOD BLANK: 1426336 Matrix: Water
Associated Lab Samples: 30246238001, 30246238002, 30246238003, 30246238004, 30246238005, 30246238006, 30246238007, 30246238008, 30246238009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	03/15/18 15:24	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	03/15/18 15:24	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	03/15/18 15:24	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	03/15/18 15:24	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	03/15/18 15:24	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	03/15/18 15:24	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	03/15/18 15:24	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	03/15/18 15:24	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	03/15/18 15:24	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	03/15/18 15:24	
2-Hexanone	ug/L	10.0 U	10.0	0.66	03/15/18 15:24	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	03/15/18 15:24	
Acetone	ug/L	10.0 U	10.0	2.8	03/15/18 15:24	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	03/15/18 15:24	
Benzene	ug/L	1.0 U	1.0	0.24	03/15/18 15:24	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	03/15/18 15:24	
Bromoform	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Bromomethane	ug/L	1.0 U	1.0	0.49	03/15/18 15:24	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	03/15/18 15:24	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	03/15/18 15:24	
Chloroethane	ug/L	1.0 U	1.0	0.55	03/15/18 15:24	
Chloroform	ug/L	1.0 U	1.0	0.30	03/15/18 15:24	
Chloromethane	ug/L	1.0 U	1.0	0.68	03/15/18 15:24	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	03/15/18 15:24	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	03/15/18 15:24	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	03/15/18 15:24	
Dibromomethane	ug/L	1.0 U	1.0	0.40	03/15/18 15:24	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
Iodomethane	ug/L	50.0 U	50.0	0.67	03/15/18 15:24	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	03/15/18 15:24	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	03/15/18 15:24	
Naphthalene	ug/L	2.0 U	2.0	0.82	03/15/18 15:24	
Styrene	ug/L	1.0 U	1.0	0.17	03/15/18 15:24	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	03/15/18 15:24	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

METHOD BLANK: 1426336 Matrix: Water

Associated Lab Samples: 30246238001, 30246238002, 30246238003, 30246238004, 30246238005, 30246238006, 30246238007, 30246238008, 30246238009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	03/15/18 15:24	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	03/15/18 15:24	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	03/15/18 15:24	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	03/15/18 15:24	
Trichloroethene	ug/L	1.0 U	1.0	0.39	03/15/18 15:24	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	03/15/18 15:24	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	03/15/18 15:24	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	03/15/18 15:24	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	03/15/18 15:24	
1,2-Dichloroethane-d4 (S)	%	95	80-120		03/15/18 15:24	
4-Bromofluorobenzene (S)	%	105	79-129		03/15/18 15:24	
Dibromofluoromethane (S)	%	103	80-120		03/15/18 15:24	
Toluene-d8 (S)	%	94	80-120		03/15/18 15:24	

LABORATORY CONTROL SAMPLE: 1426337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	
1,1,1-Trichloroethane	ug/L	20	17.7	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethene	ug/L	20	18.7	93	70-130	
1,2,3-Trichloropropane	ug/L	20	19.4	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.0	95	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	100	70-130	
1,2-Dichlorobenzene	ug/L	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	20	17.2	86	70-130	
1,2-Dichloropropane	ug/L	20	18.9	94	70-130	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	18.8	94	72-170	
2-Hexanone	ug/L	20	18.5	93	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	66-150	
Acetone	ug/L	20	21.5	108	30-179	
Acrylonitrile	ug/L	20	19.3	97	48-172	
Benzene	ug/L	20	18.5	93	70-130	
Bromochloromethane	ug/L	20	21.7	108	70-130	
Bromodichloromethane	ug/L	20	16.8	84	70-130	
Bromoform	ug/L	20	18.0	90	70-130	
Bromomethane	ug/L	20	21.8	109	47-174	
Carbon disulfide	ug/L	20	16.7	83	43-133	
Carbon tetrachloride	ug/L	20	17.6	88	56-143	
Chlorobenzene	ug/L	20	19.7	98	70-130	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

LABORATORY CONTROL SAMPLE: 1426337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	17.7	88	67-139	
Chloroform	ug/L	20	18.0	90	70-130	
Chloromethane	ug/L	20	20.8	104	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.9	89	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.9	84	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Dibromomethane	ug/L	20	20.3	101	70-130	
Ethylbenzene	ug/L	20	19.5	97	70-130	
Iodomethane	ug/L	20	23.0J	115	10-175	
Methyl-tert-butyl ether	ug/L	20	17.8	89	70-130	
Methylene Chloride	ug/L	20	17.6	88	55-144	
Naphthalene	ug/L	20	21.4	107	70-130	
Styrene	ug/L	20	19.8	99	70-130	
Tetrachloroethene	ug/L	20	20.6	103	70-130	
Toluene	ug/L	20	18.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	91	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.9	79	27-116	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	24.0	120	60-148	
Vinyl acetate	ug/L	20	16.4	82	30-181	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	59.3	99	70-130	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			104	79-129	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427251 1427252

Parameter	Units	30246031007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.2	16.4	81	82	51-124	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.0	15.7	80	78	79-129	2	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.5	15.9	78	80	57-118	3	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.4	16.8	82	84	68-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.5	16.6	83	83	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.0	14.3	70	72	63-126	2	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.0	15.9	80	80	56-129	0	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	13.4	13.9	67	70	53-120	4	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.7	16.7	83	84	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	17.1	85	86	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.6	16.1	78	81	69-116	3	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	16.4	16.7	82	83	63-118	1	30	

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QUALITY CONTROL DATA

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427251 1427252

Parameter	Units	30246031007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	17.4	85	87	72-118	2	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	20.9	20.8	105	104	72-168	1	30	
2-Hexanone	ug/L	10.0 U	20	20	15.8	16.0	79	80	66-143	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	19.3	20.0	97	100	67-145	4	30	
Acetone	ug/L	3.3J	20	20	23.3	22.6	100	96	15-175	3	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.3	16.9	81	84	36-165	4	30	
Benzene	ug/L	1.0 U	20	20	15.8	16.5	79	82	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.1	19.5	91	98	62-128	7	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.7	16.3	78	82	66-127	4	30	
Bromoform	ug/L	1.0 U	20	20	13.7	14.2	69	71	71-127	4	30	ML
Bromomethane	ug/L	1.9	20	20	11.7	13.7	49	59	10-156	16	30	
Carbon disulfide	ug/L	1.0 U	20	20	10.9	10.9	54	55	45-131	1	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.5	15.5	78	78	69-134	0	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.2	17.4	86	87	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	14.0	17.3	70	86	60-156	21	30	
Chloroform	ug/L	1.0 U	20	20	15.7	16.1	78	80	69-115	2	30	
Chloromethane	ug/L	1.0 U	20	20	16.8	17.8	84	89	52-145	6	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.6	15.6	78	78	65-120	1	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.5	15.2	73	76	57-125	4	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.4	15.7	77	78	64-131	2	30	
Dibromomethane	ug/L	1.0 U	20	20	18.5	19.0	93	95	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.0	16.8	80	84	70-127	5	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	8.9J	37	44	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.0	15.2	75	76	79-135	2	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	15.1	15.5	75	78	54-133	3	30	
Naphthalene	ug/L	2.0 U	20	20	16.0	15.9	80	79	62-131	1	30	
Styrene	ug/L	1.0 U	20	20	14.1	14.6	70	73	65-121	3	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.4	17.9	87	90	77-125	3	30	
Toluene	ug/L	1.0 U	20	20	16.2	16.6	81	83	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.7	15.0	73	75	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.4	14.1	72	70	52-125	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	5.3	5.9	27	30	13-100	11	30	
Trichloroethene	ug/L	1.0 U	20	20	17.0	17.1	85	86	74-128	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.8	22.0	109	110	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	14.2	14.2	71	71	15-173	0	30	
Vinyl chloride	ug/L	1.0 U	20	20	14.9	15.2	75	76	60-131	2	30	
Xylene (Total)	ug/L	3.0 U	60	60	49.6	49.8	83	83	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%						98	95	80-120			
4-Bromofluorobenzene (S)	%						106	105	79-129			
Dibromofluoromethane (S)	%						106	108	80-120			
Toluene-d8 (S)	%						96	96	80-120			

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Coke Oven 1st Q2018 GW
Pace Project No.: 30246238

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30246238001	**Trip Blank**	EPA 8260B	291449		
30246238002	**C037-PZM038**	EPA 8260B	291449		
30246238003	**C027-PZM012**	EPA 8260B	291449		
30246238004	**C027-PZM046**	EPA 8260B	291449		
30246238005	**C040-PZM008**	EPA 8260B	291449		
30246238006	**C042-PZM004**	EPA 8260B	291449		
30246238007	**C093-PZMXXX**	EPA 8260B	291449		
30246238008	**C018-PZM006**	EPA 8260B	291449		
30246238009	**C030-PZM015**	EPA 8260B	291449		

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CHAIN-
The Chain-of- ment
ccurately.

WO# : 30246238

30246238

Page: of

Section A
Required Client Information:

Company:	EnviroAnalytics Group
Address:	1430 Sparrows Point Blvd
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5-day

Section B
Required Project Information:

Report To:	James Calenda
Copy To:	
PO Number:	
Project Name:	Coke Oven 1st @ 2018 GW
Project Number:	170384M-1-2

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location
STATE: MD

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Other	DI Water
1	Trip Blank	WT	G			3/14/18	—		2				2				
2	C037-PZM038	WT	G				945		3				3				
3	C027-PZM012	WT	G				1020		3				3				
4	C027-PZM046	WT	G				1110		3				3				
5	C040-PZM008	WT	G				1150		3				3				
6	C042-PZM004	WT	G				1225		3				3				
7	C093-PZMXXX	WT	G				1340		3				3				
8	C018-PZM006	WT	G				1420		3				3				
9	C030-PZM015	WT	G				1510		3				3				
10																	
11																	
12																	

Requested Analysis Filtered (Y/N)

Y/N	Analysis Test	Pace Project No./ Lab I.D.
N	VOC/8260B	001
N	SVOC-8270D Voc+Naphth	002
	DRO/8015B	003
	GRO/8015B	004
	METALS (total)/6010C	005
	Total Mercury/7471A or 7470A	006
	Total Cyanide/9012A	007
	Hexavalent Chromium (total)/7196A	008
Y	METALS (dissolved)/6010C	009
Y	Hexavalent Chromium (dissolved)/7196A	
	Available Cyanide/OIA1677	
	Oil and Grease/1664 (aq)	
	Residual Chlorine (Y/N)	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Data Package Required? (Y/N): Y		3/14/18	1550	Pace	3-14-18	1550
Data Validation Required? (Y/N): N	Pace	3-14-18	1930	Randy Sharp	3-14-18	1935
If data package is required, attach data package checklist.	Randy Sharp	3-14-18	2320	Pace	3-14-18	2320

Sample Conditions: Received on Ice (Y/N): Y | Custody Sealed Cooler (Y/N): N | Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perrin
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3/14/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: EnviroAna. Project # 30246238

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label AM
LIMS Login BLM

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.3 °C Correction Factor: +0.0 °C Final Temp: 1.3 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: AM 3-15-16

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA) coliform, TOC, O&G, Phenolics			X	16. Initial when completed: AM Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):	X			17. 2 trip blanks
Trip Blank Present: Trip Blank Custody Seals Present	X			18.
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 20, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IN GW Sampling
Pace Project No.: 30246422

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IN GW Sampling
Pace Project No.: 30246422

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30246422001	**Trip Blank**	Water	03/15/18 00:01	03/15/18 23:15
30246422002	**C030-PZM060**	Water	03/15/18 10:15	03/15/18 23:15
30246422003	**C0104-PZMXXX**	Water	03/15/18 11:00	03/15/18 23:15
30246422004	**C0103-PZMXXX**	Water	03/15/18 11:50	03/15/18 23:15
30246422005	**C0102-PZMXXX**	Water	03/15/18 13:20	03/15/18 23:15

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SAMPLE ANALYTE COUNT

Project: COA IN GW Sampling
Pace Project No.: 30246422

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30246422001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30246422002	**C030-PZM060**	EPA 8260B	MAK	53	PASI-PA
30246422003	**C0104-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30246422004	**C0103-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30246422005	**C0102-PZMXXX**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: Trip Blank **Lab ID: 30246422001** Collected: 03/15/18 00:01 Received: 03/15/18 23:15 Matrix: Water

Comments: • Headspace in both vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/16/18 14:30	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 14:30	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 14:30	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 14:30	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/16/18 14:30	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 14:30	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/16/18 14:30	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		03/16/18 14:30	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 14:30	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/16/18 14:30	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 14:30	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/16/18 14:30	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 14:30	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		03/16/18 14:30	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		03/16/18 14:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		03/16/18 14:30	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		03/16/18 14:30	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/16/18 14:30	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/16/18 14:30	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 14:30	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/16/18 14:30	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 14:30	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/16/18 14:30	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 14:30	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 14:30	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/16/18 14:30	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/16/18 14:30	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 14:30	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/16/18 14:30	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/16/18 14:30	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/16/18 14:30	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 14:30	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		03/16/18 14:30	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/16/18 14:30	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/16/18 14:30	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/16/18 14:30	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/16/18 14:30	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 14:30	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 14:30	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/16/18 14:30	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 14:30	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		03/16/18 14:30	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 14:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		03/16/18 14:30	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/16/18 14:30	156-59-2	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: Trip Blank **Lab ID: 30246422001** Collected: 03/15/18 00:01 Received: 03/15/18 23:15 Matrix: Water

Comments: • Headspace in both vials.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 14:30	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/16/18 14:30	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/16/18 14:30	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		03/16/18 14:30	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		1		03/16/18 14:30	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		03/16/18 14:30	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/16/18 14:30	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		03/16/18 14:30	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C030-PZM060 **Lab ID: 30246422002** Collected: 03/15/18 10:15 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/16/18 15:21	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 15:21	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 15:21	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 15:21	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/16/18 15:21	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 15:21	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/16/18 15:21	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/16/18 15:21	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 15:21	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/16/18 15:21	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 15:21	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/16/18 15:21	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 15:21	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/16/18 15:21	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/16/18 15:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/16/18 15:21	108-10-1	
Acetone	**3.6J**	ug/L	10.0	2.8	1		03/16/18 15:21	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/16/18 15:21	107-13-1	
Benzene	**19.2**	ug/L	1.0	0.24	1		03/16/18 15:21	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 15:21	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/16/18 15:21	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 15:21	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/16/18 15:21	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 15:21	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 15:21	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/16/18 15:21	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/16/18 15:21	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 15:21	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/16/18 15:21	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/16/18 15:21	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/16/18 15:21	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 15:21	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/16/18 15:21	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/16/18 15:21	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/16/18 15:21	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/16/18 15:21	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/16/18 15:21	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 15:21	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 15:21	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/16/18 15:21	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 15:21	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/16/18 15:21	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 15:21	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/16/18 15:21	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/16/18 15:21	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 15:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C030-PZM060 **Lab ID: 30246422002** Collected: 03/15/18 10:15 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/16/18 15:21	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/16/18 15:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/16/18 15:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		1		03/16/18 15:21	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		1		03/16/18 15:21	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/16/18 15:21	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		03/16/18 15:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C0104-PZMXXX **Lab ID: 30246422003** Collected: 03/15/18 11:00 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/16/18 15:46	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 15:46	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 15:46	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 15:46	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/16/18 15:46	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 15:46	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/16/18 15:46	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/16/18 15:46	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 15:46	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/16/18 15:46	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 15:46	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/16/18 15:46	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/16/18 15:46	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/16/18 15:46	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/16/18 15:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/16/18 15:46	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		03/16/18 15:46	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/16/18 15:46	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/16/18 15:46	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 15:46	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/16/18 15:46	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 15:46	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/16/18 15:46	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 15:46	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/16/18 15:46	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/16/18 15:46	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/16/18 15:46	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 15:46	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/16/18 15:46	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/16/18 15:46	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/16/18 15:46	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 15:46	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/16/18 15:46	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/16/18 15:46	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/16/18 15:46	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/16/18 15:46	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/16/18 15:46	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/16/18 15:46	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/16/18 15:46	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/16/18 15:46	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/16/18 15:46	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/16/18 15:46	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/16/18 15:46	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/16/18 15:46	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/16/18 15:46	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/16/18 15:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C0104-PZMXXX **Lab ID: 30246422003** Collected: 03/15/18 11:00 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/16/18 15:46	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/16/18 15:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/16/18 15:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		1		03/16/18 15:46	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		03/16/18 15:46	17060-07-0	
Toluene-d8 (S)	93	%	80-120		1		03/16/18 15:46	2037-26-5	
Dibromofluoromethane (S)	105	%	80-120		1		03/16/18 15:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C0103-PZMXXX **Lab ID: 30246422004** Collected: 03/15/18 11:50 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 16:36	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 16:36	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 16:36	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 16:36	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 16:36	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 16:36	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 16:36	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 16:36	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 16:36	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 16:36	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 16:36	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 16:36	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 16:36	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 16:36	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 16:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 16:36	108-10-1	
Acetone	**25.2J**	ug/L	50.0	14.2	5		03/16/18 16:36	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 16:36	107-13-1	
Benzene	**13000**	ug/L	200	48.0	200		03/16/18 15:34	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 16:36	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 16:36	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 16:36	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 16:36	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 16:36	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 16:36	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 16:36	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 16:36	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 16:36	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 16:36	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 16:36	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 16:36	74-95-3	
Ethylbenzene	**30.4**	ug/L	5.0	1.6	5		03/16/18 16:36	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 16:36	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 16:36	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 16:36	75-09-2	
Naphthalene	**1760**	ug/L	400	164	200		03/16/18 15:34	91-20-3	
Styrene	**4.6J**	ug/L	5.0	0.85	5		03/16/18 16:36	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 16:36	127-18-4	
Toluene	**1100**	ug/L	5.0	1.5	5		03/16/18 16:36	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 16:36	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 16:36	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 16:36	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 16:36	75-01-4	
Xylene (Total)	**499**	ug/L	15.0	3.9	5		03/16/18 16:36	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 16:36	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 16:36	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C0103-PZMXXX **Lab ID: 30246422004** Collected: 03/15/18 11:50 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 16:36	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 16:36	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 16:36	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		03/16/18 16:36	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/16/18 16:36	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		03/16/18 16:36	2037-26-5	
Dibromofluoromethane (S)	96	%	80-120		5		03/16/18 16:36	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C0102-PZMXXX **Lab ID: 30246422005** Collected: 03/15/18 13:20 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 17:02	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:02	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 17:02	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:02	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/16/18 17:02	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:02	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/16/18 17:02	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/16/18 17:02	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:02	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/16/18 17:02	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 17:02	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:02	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/16/18 17:02	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/16/18 17:02	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/16/18 17:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/16/18 17:02	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/16/18 17:02	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/16/18 17:02	107-13-1	
Benzene	**16900**	ug/L	100	24.0	100		03/16/18 15:59	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 17:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/16/18 17:02	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/16/18 17:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/16/18 17:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/16/18 17:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/16/18 17:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/16/18 17:02	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:02	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 17:02	74-95-3	
Ethylbenzene	**24.9**	ug/L	5.0	1.6	5		03/16/18 17:02	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/16/18 17:02	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 17:02	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/16/18 17:02	75-09-2	
Naphthalene	**987**	ug/L	10.0	4.1	5		03/16/18 17:02	91-20-3	
Styrene	**7.3**	ug/L	5.0	0.85	5		03/16/18 17:02	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:02	127-18-4	
Toluene	**1230**	ug/L	5.0	1.5	5		03/16/18 17:02	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/16/18 17:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/16/18 17:02	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/16/18 17:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/16/18 17:02	75-01-4	
Xylene (Total)	**293**	ug/L	15.0	3.9	5		03/16/18 17:02	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/16/18 17:02	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/16/18 17:02	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IN GW Sampling
Pace Project No.: 30246422

Sample: C0102-PZMXXX **Lab ID: 30246422005** Collected: 03/15/18 13:20 Received: 03/15/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/16/18 17:02	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/16/18 17:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/16/18 17:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		03/16/18 17:02	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		5		03/16/18 17:02	17060-07-0	
Toluene-d8 (S)	98	%	80-120		5		03/16/18 17:02	2037-26-5	
Dibromofluoromethane (S)	95	%	80-120		5		03/16/18 17:02	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IN GW Sampling
Pace Project No.: 30246422

QC Batch: 291561 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30246422001, 30246422002, 30246422003, 30246422004, 30246422005

METHOD BLANK: 1427047 Matrix: Water
Associated Lab Samples: 30246422001, 30246422002, 30246422003, 30246422004, 30246422005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	03/16/18 14:05	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	03/16/18 14:05	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	03/16/18 14:05	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	03/16/18 14:05	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	03/16/18 14:05	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	03/16/18 14:05	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	03/16/18 14:05	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	03/16/18 14:05	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	03/16/18 14:05	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	03/16/18 14:05	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	03/16/18 14:05	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	03/16/18 14:05	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	03/16/18 14:05	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	03/16/18 14:05	
2-Hexanone	ug/L	10.0 U	10.0	0.66	03/16/18 14:05	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	03/16/18 14:05	
Acetone	ug/L	10.0 U	10.0	2.8	03/16/18 14:05	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	03/16/18 14:05	
Benzene	ug/L	1.0 U	1.0	0.24	03/16/18 14:05	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	03/16/18 14:05	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	03/16/18 14:05	
Bromoform	ug/L	1.0 U	1.0	0.32	03/16/18 14:05	
Bromomethane	ug/L	1.0 U	1.0	0.49	03/16/18 14:05	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	03/16/18 14:05	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	03/16/18 14:05	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	03/16/18 14:05	
Chloroethane	ug/L	1.0 U	1.0	0.55	03/16/18 14:05	
Chloroform	ug/L	1.0 U	1.0	0.30	03/16/18 14:05	
Chloromethane	ug/L	1.0 U	1.0	0.68	03/16/18 14:05	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	03/16/18 14:05	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	03/16/18 14:05	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	03/16/18 14:05	
Dibromomethane	ug/L	1.0 U	1.0	0.40	03/16/18 14:05	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	03/16/18 14:05	
Iodomethane	ug/L	50.0 U	50.0	0.67	03/16/18 14:05	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	03/16/18 14:05	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	03/16/18 14:05	
Naphthalene	ug/L	2.0 U	2.0	0.82	03/16/18 14:05	
Styrene	ug/L	1.0 U	1.0	0.17	03/16/18 14:05	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	03/16/18 14:05	
Toluene	ug/L	1.0 U	1.0	0.30	03/16/18 14:05	

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QUALITY CONTROL DATA

Project: COA IN GW Sampling
Pace Project No.: 30246422

METHOD BLANK: 1427047 Matrix: Water
Associated Lab Samples: 30246422001, 30246422002, 30246422003, 30246422004, 30246422005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	03/16/18 14:05	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	03/16/18 14:05	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	03/16/18 14:05	
Trichloroethene	ug/L	1.0 U	1.0	0.39	03/16/18 14:05	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	03/16/18 14:05	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	03/16/18 14:05	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	03/16/18 14:05	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	03/16/18 14:05	
1,2-Dichloroethane-d4 (S)	%	94	80-120		03/16/18 14:05	
4-Bromofluorobenzene (S)	%	105	79-129		03/16/18 14:05	
Dibromofluoromethane (S)	%	103	80-120		03/16/18 14:05	
Toluene-d8 (S)	%	94	80-120		03/16/18 14:05	

LABORATORY CONTROL SAMPLE: 1427048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	
1,1,1-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	65-127	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	18.7	94	70-130	
1,2,3-Trichloropropane	ug/L	20	19.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	94	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	20	18.0	90	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	19.0	95	72-170	
2-Hexanone	ug/L	20	18.5	93	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	93	66-150	
Acetone	ug/L	20	22.0	110	30-179	
Acrylonitrile	ug/L	20	19.3	97	48-172	
Benzene	ug/L	20	19.2	96	70-130	
Bromochloromethane	ug/L	20	22.6	113	70-130	
Bromodichloromethane	ug/L	20	16.9	84	70-130	
Bromoform	ug/L	20	18.0	90	70-130	
Bromomethane	ug/L	20	21.5	107	47-174	
Carbon disulfide	ug/L	20	17.9	90	43-133	
Carbon tetrachloride	ug/L	20	18.6	93	56-143	
Chlorobenzene	ug/L	20	20.1	101	70-130	
Chloroethane	ug/L	20	18.9	94	67-139	
Chloroform	ug/L	20	18.0	90	70-130	

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QUALITY CONTROL DATA

Project: COA IN GW Sampling
Pace Project No.: 30246422

LABORATORY CONTROL SAMPLE: 1427048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	21.2	106	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.7	93	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.1	86	70-130	
Dibromochloromethane	ug/L	20	18.9	95	70-130	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	19.1	95	70-130	
Iodomethane	ug/L	20	11.3J	56	10-175	
Methyl-tert-butyl ether	ug/L	20	18.1	90	70-130	
Methylene Chloride	ug/L	20	19.3	97	55-144	
Naphthalene	ug/L	20	21.2	106	70-130	
Styrene	ug/L	20	19.7	98	70-130	
Tetrachloroethene	ug/L	20	20.5	103	70-130	
Toluene	ug/L	20	18.9	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.3	87	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.6	73	27-116	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	25.8	129	60-148	
Vinyl acetate	ug/L	20	15.9	79	30-181	
Vinyl chloride	ug/L	20	20.6	103	70-130	
Xylene (Total)	ug/L	60	59.8	100	70-130	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			104	79-129	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427249 1427250

Parameter	Units	30246422002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.7	17.5	88	87	51-124	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.9	17.3	85	86	79-129	2	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.2	17.9	86	90	57-118	4	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	18.2	18.2	91	91	68-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.9	18.7	94	94	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.0	17.9	90	89	63-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.6	17.8	88	89	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.7	15.7	73	78	53-120	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.2	18.2	91	91	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.8	19.3	94	97	72-119	3	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.5	17.1	87	85	69-116	2	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.2	18.1	91	90	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	18.6	19.7	93	98	72-118	5	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	21.1	21.7	106	108	72-168	3	30	

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QUALITY CONTROL DATA

Project: COA IN GW Sampling
Pace Project No.: 30246422

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1427249 1427250

Parameter	Units	30246422002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	17.5	17.0	88	85	66-143	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.6	20.7	108	103	67-145	4	30	
Acetone	ug/L	3.6J	20	20	24.4	23.4	104	99	15-175	4	30	
Acrylonitrile	ug/L	4.0 U	20	20	18.0	17.5	90	88	36-165	2	30	
Benzene	ug/L	19.2	20	20	37.1	36.5	89	86	67-121	2	30	
Bromochloromethane	ug/L	1.0 U	20	20	21.3	21.6	107	108	62-128	1	30	
Bromodichloromethane	ug/L	1.0 U	20	20	17.6	17.8	88	89	66-127	1	30	
Bromoform	ug/L	1.0 U	20	20	15.2	15.0	76	75	71-127	1	30	
Bromomethane	ug/L	1.0 U	20	20	11.2	9.5	56	47	10-156	17	30	
Carbon disulfide	ug/L	1.0 U	20	20	14.0	14.3	70	71	45-131	2	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.3	17.1	87	86	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	18.4	18.6	92	93	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	19.1	19.0	95	95	60-156	1	30	
Chloroform	ug/L	1.0 U	20	20	17.1	17.1	85	86	69-115	0	30	
Chloromethane	ug/L	1.0 U	20	20	21.4	20.4	107	102	52-145	5	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.5	17.1	87	85	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.7	16.1	78	80	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.5	16.6	83	83	64-131	0	30	
Dibromomethane	ug/L	1.0 U	20	20	20.8	20.3	104	101	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	17.8	18.1	89	90	70-127	2	30	
Iodomethane	ug/L	50.0 U	20	20	5.6J	7.2J	28	36	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.6	17.3	88	87	79-135	2	30	
Methylene Chloride	ug/L	1.0 U	20	20	16.9	17.5	85	88	54-133	4	30	
Naphthalene	ug/L	2.0 U	20	20	17.4	18.3	87	92	62-131	5	30	
Styrene	ug/L	1.0 U	20	20	17.9	17.7	89	88	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.9	19.6	95	98	77-125	4	30	
Toluene	ug/L	1.0 U	20	20	17.8	18.0	89	90	77-125	1	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.5	17.2	87	86	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.4	15.7	77	79	52-125	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	6.9	5.6	34	28	13-100	20	30	
Trichloroethene	ug/L	1.0 U	20	20	19.2	19.2	96	96	74-128	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	26.9	25.7	135	129	54-164	5	30	
Vinyl acetate	ug/L	10.0 U	20	20	15.4	15.2	77	76	15-173	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	22.0	21.2	110	106	60-131	4	30	
Xylene (Total)	ug/L	3.0 U	60	60	53.3	54.0	89	90	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%						99	98	80-120			
4-Bromofluorobenzene (S)	%						104	108	79-129			
Dibromofluoromethane (S)	%						109	106	80-120			
Toluene-d8 (S)	%						95	96	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALIFIERS

Project: COA IN GW Sampling
Pace Project No.: 30246422

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IN GW Sampling
Pace Project No.: 30246422

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30246422001	**Trip Blank**	EPA 8260B	291561		
30246422002	**C030-PZM060**	EPA 8260B	291561		
30246422003	**C0104-PZMXXX**	EPA 8260B	291561		
30246422004	**C0103-PZMXXX**	EPA 8260B	291561		
30246422005	**C0102-PZMXXX**	EPA 8260B	291561		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A
Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B
Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384M-1-2

Section C
Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO# : 30246422
30246422

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	Residual	Pace Project No./ Lab I.D.
1	Trip Blank					3/15/18	—		2				2						X		001
2	C030-PZM060						1015		3				3						X		002
3	C0104-PZMXXX						1100		3				3						X		003
4	C0103-PZMXXX						~~1150~~ 1150		3				3						X		004
5	C0102-PZMXXX						1320		3				3						X		005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3/15/18	1400	David L Hillegan/Pace	3/15/18	1550				
	David L Hillegan/Pace	3/15/18	1950	Nancy S[signature]	3-15-18	1950				
	Nancy S[signature]	3-15-18	2315	[signature]/Pace	3-15-18	2315	1.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 3/15/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enviro Ana. Project # 30246422

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label ANN
LIMS Login ANN

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.2 °C Correction Factor: +0.0 °C Final Temp: 1.2 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: AM 3-16-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			X	16.
exceptions: (VOA), coliform, TOC, O&G, Phenolics				Initial when completed / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):	X			17. 2 trip blank vials
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: / Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 26, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30246603

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30246603

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30246603001	**Trip Blank**	Water	03/16/18 00:01	03/16/18 23:50
30246603002	**CO43-PZM048**	Water	03/16/18 11:33	03/16/18 23:50
30246603003	**CO44-PZM048**	Water	03/16/18 11:51	03/16/18 23:50
30246603004	**CO45-PZM047**	Water	03/16/18 12:15	03/16/18 23:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30246603

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30246603001	**Trip Blank**	EPA 8260B	MAK	53
30246603002	**CO43-PZM048**	EPA 8260B	MAK	53
30246603003	**CO44-PZM048**	EPA 8260B	MAK	53
30246603004	**CO45-PZM047**	EPA 8260B	MAK	53

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30246603

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: March 26, 2018

General Information:
4 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 292345

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30246603003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1430566)
  - 1,1,1-Trichloroethane
- MSD (Lab ID: 1430567)
  - 1,1,1-Trichloroethane

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: Trip Blank **Lab ID: 30246603001** Collected: 03/16/18 00:01 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**5.3J**	ug/L	5.0	2.8	1		03/23/18 15:22	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/23/18 15:22	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/23/18 15:22	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 15:22	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/23/18 15:22	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 15:22	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/23/18 15:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		03/23/18 15:22	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 15:22	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 15:22	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/23/18 15:22	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/23/18 15:22	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 15:22	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/23/18 15:22	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		03/23/18 15:22	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/23/18 15:22	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 15:22	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/23/18 15:22	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/23/18 15:22	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 15:22	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		03/23/18 15:22	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/23/18 15:22	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 15:22	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 15:22	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/23/18 15:22	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/23/18 15:22	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/23/18 15:22	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 15:22	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/23/18 15:22	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 15:22	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.66	1		03/23/18 15:22	591-78-6	
Iodomethane	ND	ug/L	1.0	0.67	1		03/23/18 15:22	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/23/18 15:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		03/23/18 15:22	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/23/18 15:22	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/23/18 15:22	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/23/18 15:22	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/23/18 15:22	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 15:22	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 15:22	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 15:22	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 15:22	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 15:22	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/23/18 15:22	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 15:22	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/23/18 15:22	96-18-4	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: Trip Blank **Lab ID: 30246603001** Collected: 03/16/18 00:01 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	ND	ug/L	2.0	0.51	1		03/23/18 15:22	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 15:22	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		03/23/18 15:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		1		03/23/18 15:22	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		1		03/23/18 15:22	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		03/23/18 15:22	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		03/23/18 15:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: CO43-PZM048 **Lab ID: 30246603002** Collected: 03/16/18 11:33 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**18.3J**	ug/L	50.0	14.2	5		03/23/18 17:54	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 17:54	107-13-1	
Benzene	**1970**	ug/L	5.0	1.2	5		03/23/18 17:54	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 17:54	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 17:54	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 17:54	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 17:54	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 17:54	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 17:54	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 17:54	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 17:54	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 17:54	75-00-3	
Chloroform	**2.3J**	ug/L	5.0	1.5	5		03/23/18 17:54	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 17:54	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 17:54	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 17:54	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 17:54	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 17:54	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 17:54	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 17:54	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 17:54	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 17:54	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 17:54	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 17:54	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 17:54	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 17:54	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 17:54	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 17:54	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 17:54	10061-02-6	
Ethylbenzene	**5.4**	ug/L	5.0	1.6	5		03/23/18 17:54	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 17:54	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 17:54	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 17:54	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 17:54	1634-04-4	
Naphthalene	**91.4**	ug/L	10.0	4.1	5		03/23/18 17:54	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		03/23/18 17:54	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 17:54	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 17:54	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 17:54	127-18-4	
Toluene	**150**	ug/L	5.0	1.5	5		03/23/18 17:54	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 17:54	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 17:54	79-00-5	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 17:54	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 17:54	75-69-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 17:54	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: CO43-PZM048 **Lab ID: 30246603002** Collected: 03/16/18 11:33 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 17:54	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 17:54	75-01-4	
Xylene (Total)	**67.9**	ug/L	15.0	3.9	5		03/23/18 17:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		03/23/18 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	80-120		5		03/23/18 17:54	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		03/23/18 17:54	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		5		03/23/18 17:54	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: CO44-PZM048 **Lab ID: 30246603003** Collected: 03/16/18 11:51 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**3.8J**	ug/L	10.0	2.8	1		03/23/18 15:47	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/23/18 15:47	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/23/18 15:47	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 15:47	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/23/18 15:47	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 15:47	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/23/18 15:47	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/23/18 15:47	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 15:47	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 15:47	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/23/18 15:47	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/23/18 15:47	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 15:47	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/23/18 15:47	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/23/18 15:47	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/23/18 15:47	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 15:47	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/23/18 15:47	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/23/18 15:47	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 15:47	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/23/18 15:47	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/23/18 15:47	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 15:47	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 15:47	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/23/18 15:47	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/23/18 15:47	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/23/18 15:47	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 15:47	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/23/18 15:47	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 15:47	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/23/18 15:47	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/23/18 15:47	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/23/18 15:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/23/18 15:47	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/23/18 15:47	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/23/18 15:47	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/23/18 15:47	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/23/18 15:47	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 15:47	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 15:47	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 15:47	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 15:47	71-55-6	ML
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 15:47	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/23/18 15:47	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 15:47	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/23/18 15:47	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: CO44-PZM048 **Lab ID: 30246603003** Collected: 03/16/18 11:51 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/23/18 15:47	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 15:47	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/23/18 15:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		1		03/23/18 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		1		03/23/18 15:47	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		03/23/18 15:47	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		03/23/18 15:47	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: CO45-PZM047 **Lab ID: 30246603004** Collected: 03/16/18 12:15 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**3.0J**	ug/L	10.0	2.8	1		03/23/18 16:13	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/23/18 16:13	107-13-1	
Benzene	**117**	ug/L	1.0	0.24	1		03/23/18 16:13	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 16:13	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/23/18 16:13	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 16:13	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/23/18 16:13	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/23/18 16:13	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 16:13	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 16:13	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/23/18 16:13	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/23/18 16:13	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 16:13	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/23/18 16:13	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/23/18 16:13	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/23/18 16:13	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 16:13	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/23/18 16:13	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/23/18 16:13	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 16:13	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/23/18 16:13	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/23/18 16:13	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 16:13	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 16:13	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/23/18 16:13	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/23/18 16:13	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/23/18 16:13	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 16:13	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/23/18 16:13	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 16:13	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/23/18 16:13	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/23/18 16:13	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/23/18 16:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/23/18 16:13	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/23/18 16:13	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/23/18 16:13	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/23/18 16:13	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/23/18 16:13	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 16:13	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 16:13	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 16:13	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 16:13	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 16:13	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/23/18 16:13	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 16:13	75-69-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/23/18 16:13	96-18-4	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246603

Sample: CO45-PZM047 **Lab ID: 30246603004** Collected: 03/16/18 12:15 Received: 03/16/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/23/18 16:13	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 16:13	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		03/23/18 16:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	79-129		1		03/23/18 16:13	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120		1		03/23/18 16:13	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		03/23/18 16:13	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		1		03/23/18 16:13	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246603

QC Batch: 292345 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30246603001, 30246603002, 30246603003, 30246603004

METHOD BLANK: 1430517 Matrix: Water
Associated Lab Samples: 30246603001, 30246603002, 30246603003, 30246603004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	03/23/18 14:32	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	03/23/18 14:32	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	03/23/18 14:32	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	03/23/18 14:32	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	03/23/18 14:32	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	03/23/18 14:32	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	03/23/18 14:32	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	03/23/18 14:32	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	03/23/18 14:32	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	03/23/18 14:32	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	03/23/18 14:32	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	03/23/18 14:32	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	03/23/18 14:32	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	03/23/18 14:32	
2-Hexanone	ug/L	10.0 U	10.0	0.66	03/23/18 14:32	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	03/23/18 14:32	
Acetone	ug/L	10.0 U	10.0	2.8	03/23/18 14:32	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	03/23/18 14:32	
Benzene	ug/L	1.0 U	1.0	0.24	03/23/18 14:32	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	03/23/18 14:32	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	03/23/18 14:32	
Bromoform	ug/L	1.0 U	1.0	0.32	03/23/18 14:32	
Bromomethane	ug/L	1.0 U	1.0	0.49	03/23/18 14:32	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	03/23/18 14:32	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	03/23/18 14:32	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	03/23/18 14:32	
Chloroethane	ug/L	1.0 U	1.0	0.55	03/23/18 14:32	
Chloroform	ug/L	1.0 U	1.0	0.30	03/23/18 14:32	
Chloromethane	ug/L	1.0 U	1.0	0.68	03/23/18 14:32	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	03/23/18 14:32	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	03/23/18 14:32	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	03/23/18 14:32	
Dibromomethane	ug/L	1.0 U	1.0	0.40	03/23/18 14:32	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	03/23/18 14:32	
Iodomethane	ug/L	50.0 U	50.0	0.67	03/23/18 14:32	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	03/23/18 14:32	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	03/23/18 14:32	
Naphthalene	ug/L	2.0 U	2.0	0.82	03/23/18 14:32	
Styrene	ug/L	1.0 U	1.0	0.17	03/23/18 14:32	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	03/23/18 14:32	
Toluene	ug/L	1.0 U	1.0	0.30	03/23/18 14:32	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246603

METHOD BLANK: 1430517 Matrix: Water
Associated Lab Samples: 30246603001, 30246603002, 30246603003, 30246603004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	03/23/18 14:32	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	03/23/18 14:32	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	03/23/18 14:32	
Trichloroethene	ug/L	1.0 U	1.0	0.39	03/23/18 14:32	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	03/23/18 14:32	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	03/23/18 14:32	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	03/23/18 14:32	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	03/23/18 14:32	
1,2-Dichloroethane-d4 (S)	%	93	80-120		03/23/18 14:32	
4-Bromofluorobenzene (S)	%	107	79-129		03/23/18 14:32	
Dibromofluoromethane (S)	%	103	80-120		03/23/18 14:32	
Toluene-d8 (S)	%	96	80-120		03/23/18 14:32	

LABORATORY CONTROL SAMPLE: 1430518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,1-Trichloroethane	ug/L	20	17.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	20	17.0	85	70-130	
1,1-Dichloroethene	ug/L	20	17.5	88	70-130	
1,2,3-Trichloropropane	ug/L	20	19.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.7	98	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	20	20.7	104	70-130	
1,2-Dichloroethane	ug/L	20	16.5	82	70-130	
1,2-Dichloropropane	ug/L	20	18.0	90	70-130	
1,4-Dichlorobenzene	ug/L	20	20.1	101	70-130	
2-Butanone (MEK)	ug/L	20	16.5	82	72-170	
2-Hexanone	ug/L	20	15.4	77	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.4	82	66-150	
Acetone	ug/L	20	19.8	99	30-179	
Acrylonitrile	ug/L	20	17.4	87	48-172	
Benzene	ug/L	20	17.8	89	70-130	
Bromochloromethane	ug/L	20	21.3	107	70-130	
Bromodichloromethane	ug/L	20	16.4	82	70-130	
Bromoform	ug/L	20	18.4	92	70-130	
Bromomethane	ug/L	20	19.8	99	47-174	
Carbon disulfide	ug/L	20	17.7	88	43-133	
Carbon tetrachloride	ug/L	20	17.7	89	56-143	
Chlorobenzene	ug/L	20	18.6	93	70-130	
Chloroethane	ug/L	20	18.8	94	67-139	
Chloroform	ug/L	20	17.1	85	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246603

LABORATORY CONTROL SAMPLE: 1430518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.2	91	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.3	81	70-130	
Dibromochloromethane	ug/L	20	18.0	90	70-130	
Dibromomethane	ug/L	20	21.0	105	70-130	
Ethylbenzene	ug/L	20	17.9	89	70-130	
Iodomethane	ug/L	20	11.5J	57	10-175	
Methyl-tert-butyl ether	ug/L	20	17.9	89	70-130	
Methylene Chloride	ug/L	20	15.4	77	55-144	
Naphthalene	ug/L	20	21.4	107	70-130	
Styrene	ug/L	20	18.5	92	70-130	
Tetrachloroethene	ug/L	20	19.8	99	70-130	
Toluene	ug/L	20	17.5	88	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.7	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	13.5	67	27-116	
Trichloroethene	ug/L	20	18.9	94	70-130	
Trichlorofluoromethane	ug/L	20	25.9	129	60-148	
Vinyl acetate	ug/L	20	14.7	74	30-181	
Vinyl chloride	ug/L	20	21.0	105	70-130	
Xylene (Total)	ug/L	60	54.7	91	70-130	
1,2-Dichloroethane-d4 (S)	%			87	80-120	
4-Bromofluorobenzene (S)	%			107	79-129	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1430566 1430567

Parameter	Units	30246603003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.9	15.5	80	78	51-124	2	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	15.4	15.2	77	76	79-129	2	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.8	15.9	79	79	57-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.9	16.9	84	84	68-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.0	15.6	80	78	74-119	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.6	15.1	73	76	63-126	4	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.5	15.9	83	79	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.6	14.5	73	72	53-120	1	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.9	17.6	85	88	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	16.8	85	84	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	15.1	75	75	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.6	15.4	78	77	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.1	16.8	85	84	72-118	2	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.6	18.4	93	92	72-168	1	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246603

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1430566 1430567

Parameter	Units	30246603003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	15.3	14.6	77	73	66-143	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.7	17.9	93	90	67-145	4	30	
Acetone	ug/L	3.8J	20	20	22.2	21.7	92	90	15-175	2	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.4	16.1	82	81	36-165	2	30	
Benzene	ug/L	1.0 U	20	20	16.0	16.3	80	81	67-121	2	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.7	19.4	99	97	62-128	2	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.5	15.7	77	78	66-127	2	30	
Bromoform	ug/L	1.0 U	20	20	14.7	14.5	73	72	71-127	1	30	
Bromomethane	ug/L	1.0 U	20	20	16.7	17.8	83	89	10-156	6	30	
Carbon disulfide	ug/L	1.0 U	20	20	12.4	13.4	62	67	45-131	8	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.7	15.3	78	76	69-134	2	30	
Chlorobenzene	ug/L	1.0 U	20	20	16.7	16.3	83	81	69-119	2	30	
Chloroethane	ug/L	1.0 U	20	20	23.2	22.5	116	113	60-156	3	30	
Chloroform	ug/L	1.0 U	20	20	15.1	15.1	76	75	69-115	0	30	
Chloromethane	ug/L	1.0 U	20	20	17.1	17.4	85	87	52-145	2	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.5	14.6	73	73	65-120	0	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.8	14.3	74	72	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.5	15.4	78	77	64-131	1	30	
Dibromomethane	ug/L	1.0 U	20	20	20.0	19.3	100	96	56-133	4	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.1	15.6	80	78	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	8.7J	13.8J	44	69	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.1	17.2	85	86	79-135	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.7	13.8	69	69	54-133	1	30	
Naphthalene	ug/L	2.0 U	20	20	17.1	16.7	85	84	62-131	2	30	
Styrene	ug/L	1.0 U	20	20	15.9	15.8	80	79	65-121	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.4	17.4	87	87	77-125	0	30	
Toluene	ug/L	1.0 U	20	20	15.7	15.7	78	78	77-125	0	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.7	14.4	74	72	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.2	14.0	71	70	52-125	1	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.4	7.1	37	36	13-100	4	30	
Trichloroethene	ug/L	1.0 U	20	20	17.4	16.9	87	84	74-128	3	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	26.6	25.7	133	128	54-164	4	30	
Vinyl acetate	ug/L	10.0 U	20	20	12.0	11.8	60	59	15-173	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	21.1	20.5	105	102	60-131	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	47.1	46.4	78	77	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%						88	93	80-120			
4-Bromofluorobenzene (S)	%						106	108	79-129			
Dibromofluoromethane (S)	%						107	107	80-120			
Toluene-d8 (S)	%						97	98	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30246603

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30246603

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30246603001	**Trip Blank**	EPA 8260B	292345		
30246603002	**CO43-PZM048**	EPA 8260B	292345		
30246603003	**CO44-PZM048**	EPA 8260B	292345		
30246603004	**CO45-PZM047**	EPA 8260B	292345		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30246603

Section A
Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B
Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384m-1-2

Section C
Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

Page: (of)

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO# : 30246603

30246603

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	Residual	Pace Project No./ Lab I.D.
1	Trip Blank					3/16/18	—		2				2						X		001
2	C043-P2m048						1133		3				3						X		002
3	C044-P2m048						1151		3				3						X		003
4	C045-P2m047						1215		3				3						X		004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3/16/18	1600	David L Hillegan Pace	3/16/18	1725				
	David L Hillegan Pace	3/16/18	2005	Randy [signature]	3/16/18	2005				
	Randy [signature]	3/16/18	2350	[signature]	3/16/18	2350	2.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

PACE Q 020rev.00, 24 Feb 2007

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Env. Analytics Project # 30246603

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label ZH

LIMS Login JRM

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 6 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 2.2 °C Correction Factor: 0.0 °C Final Temp: 2.2 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: ZH 3/17/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: WT				
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation.			✓	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			✓	
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed ZH Date/time of preservation Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

J:\QAQC\Master\Document Management\Sample Mgt\Sample Condition Upon Receipt Pittsburgh (C056-7 16Feb2018)

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

March 26, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30246746

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on March 19, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Certification
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30246746

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30246746001	**Trip Blank**	Water	03/19/18 00:01	03/19/18 22:50
30246746002	**CO72-PZM005**	Water	03/19/18 09:53	03/19/18 22:50
30246746003	**CO71-PZM006**	Water	03/19/18 10:05	03/19/18 22:50
30246746004	**CO70-PZM005**	Water	03/19/18 10:35	03/19/18 22:50
30246746005	**CO69-PZM005**	Water	03/19/18 11:15	03/19/18 22:50
30246746006	**CO68-PZM005**	Water	03/19/18 11:25	03/19/18 22:50
30246746007	**CO67-PZM006**	Water	03/19/18 11:38	03/19/18 22:50
30246746008	**CO66-PZM005**	Water	03/19/18 11:57	03/19/18 22:50
30246746009	**CO65-PZM005**	Water	03/19/18 12:10	03/19/18 22:50
30246746010	**CO64-PZM006**	Water	03/19/18 12:40	03/19/18 22:50
30246746011	**CO63-PZM007**	Water	03/19/18 13:35	03/19/18 22:50
30246746012	**CO62-PZM007**	Water	03/19/18 13:52	03/19/18 22:50
30246746013	**CO61-PZM007**	Water	03/19/18 14:05	03/19/18 22:50
30246746014	**CO46-PZM047**	Water	03/19/18 15:20	03/19/18 22:50
30246746015	**CO47-PZM046**	Water	03/19/18 15:08	03/19/18 22:50
30246746016	**CO48-PZM044**	Water	03/19/18 15:18	03/19/18 22:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30246746

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30246746001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30246746002	**CO72-PZM005**	EPA 8260B	MAK	53	PASI-PA
30246746003	**CO71-PZM006**	EPA 8260B	MAK	53	PASI-PA
30246746004	**CO70-PZM005**	EPA 8260B	MAK	53	PASI-PA
30246746005	**CO69-PZM005**	EPA 8260B	MAK	53	PASI-PA
30246746006	**CO68-PZM005**	EPA 8260B	MAK	53	PASI-PA
30246746007	**CO67-PZM006**	EPA 8260B	MAK	53	PASI-PA
30246746008	**CO66-PZM005**	EPA 8260B	MAK	53	PASI-PA
30246746009	**CO65-PZM005**	EPA 8260B	MAK	53	PASI-PA
30246746010	**CO64-PZM006**	EPA 8260B	MAK	53	PASI-PA
30246746011	**CO63-PZM007**	EPA 8260B	MAK	53	PASI-PA
30246746012	**CO62-PZM007**	EPA 8260B	MAK	53	PASI-PA
30246746013	**CO61-PZM007**	EPA 8260B	MAK	53	PASI-PA
30246746014	**CO46-PZM047**	EPA 8260B	MAK	53	PASI-PA
30246746015	**CO47-PZM046**	EPA 8260B	MAK	53	PASI-PA
30246746016	**CO48-PZM044**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: Trip Blank **Lab ID: 30246746001** Collected: 03/19/18 00:01 Received: 03/19/18 22:50 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/23/18 14:57	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 14:57	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 14:57	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 14:57	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/23/18 14:57	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 14:57	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/23/18 14:57	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		03/23/18 14:57	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 14:57	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/23/18 14:57	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 14:57	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/23/18 14:57	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 14:57	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		03/23/18 14:57	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		03/23/18 14:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		03/23/18 14:57	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		03/23/18 14:57	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/23/18 14:57	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		03/23/18 14:57	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 14:57	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/23/18 14:57	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 14:57	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/23/18 14:57	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 14:57	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 14:57	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/23/18 14:57	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/23/18 14:57	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 14:57	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/23/18 14:57	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/23/18 14:57	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/23/18 14:57	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 14:57	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		03/23/18 14:57	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/23/18 14:57	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/23/18 14:57	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		03/23/18 14:57	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		03/23/18 14:57	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 14:57	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 14:57	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/23/18 14:57	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 14:57	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		03/23/18 14:57	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 14:57	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		03/23/18 14:57	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/23/18 14:57	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: Trip Blank **Lab ID: 30246746001** Collected: 03/19/18 00:01 Received: 03/19/18 22:50 Matrix: Water

Comments: • Headspace in one vial.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 14:57	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/23/18 14:57	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/23/18 14:57	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		03/23/18 14:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	79-129		1		03/23/18 14:57	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		1		03/23/18 14:57	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		03/23/18 14:57	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		03/23/18 14:57	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO72-PZM005 **Lab ID: 30246746002** Collected: 03/19/18 09:53 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 18:19	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:19	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 18:19	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:19	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 18:19	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:19	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 18:19	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 18:19	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:19	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 18:19	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 18:19	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:19	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:19	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 18:19	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 18:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 18:19	108-10-1	
Acetone	**19.6J**	ug/L	50.0	14.2	5		03/23/18 18:19	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 18:19	107-13-1	
Benzene	**290**	ug/L	5.0	1.2	5		03/23/18 18:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 18:19	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:19	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:19	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 18:19	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:19	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 18:19	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 18:19	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 18:19	75-00-3	
Chloroform	**2.8J**	ug/L	5.0	1.5	5		03/23/18 18:19	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 18:19	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:19	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 18:19	74-95-3	
Ethylbenzene	**8.5**	ug/L	5.0	1.6	5		03/23/18 18:19	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 18:19	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 18:19	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 18:19	75-09-2	
Naphthalene	**2260**	ug/L	100	41.0	50		03/23/18 17:41	91-20-3	
Styrene	**51.1**	ug/L	5.0	0.85	5		03/23/18 18:19	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:19	127-18-4	
Toluene	**156**	ug/L	5.0	1.5	5		03/23/18 18:19	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 18:19	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:19	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 18:19	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:19	75-01-4	
Xylene (Total)	**189**	ug/L	15.0	3.9	5		03/23/18 18:19	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 18:19	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 18:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO72-PZM005 **Lab ID: 30246746002** Collected: 03/19/18 09:53 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 18:19	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 18:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 18:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		03/23/18 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		5		03/23/18 18:19	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		03/23/18 18:19	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		5		03/23/18 18:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO71-PZM006 **Lab ID: 30246746003** Collected: 03/19/18 10:05 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 18:44	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:44	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 18:44	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:44	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 18:44	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:44	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 18:44	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 18:44	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:44	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 18:44	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 18:44	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:44	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 18:44	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 18:44	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 18:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 18:44	108-10-1	
Acetone	**19.1J**	ug/L	50.0	14.2	5		03/23/18 18:44	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 18:44	107-13-1	
Benzene	**130**	ug/L	5.0	1.2	5		03/23/18 18:44	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 18:44	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:44	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:44	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 18:44	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:44	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 18:44	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 18:44	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 18:44	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/23/18 18:44	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 18:44	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:44	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 18:44	74-95-3	
Ethylbenzene	**3.6J**	ug/L	5.0	1.6	5		03/23/18 18:44	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 18:44	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 18:44	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 18:44	75-09-2	
Naphthalene	**1560**	ug/L	10.0	4.1	5		03/23/18 18:44	91-20-3	
Styrene	**23.8**	ug/L	5.0	0.85	5		03/23/18 18:44	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:44	127-18-4	
Toluene	**68.9**	ug/L	5.0	1.5	5		03/23/18 18:44	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 18:44	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 18:44	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 18:44	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 18:44	75-01-4	
Xylene (Total)	**82.9**	ug/L	15.0	3.9	5		03/23/18 18:44	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 18:44	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 18:44	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO71-PZM006 **Lab ID: 30246746003** Collected: 03/19/18 10:05 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 18:44	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 18:44	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 18:44	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	79-129		5		03/23/18 18:44	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	80-120		5		03/23/18 18:44	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		03/23/18 18:44	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		5		03/23/18 18:44	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO70-PZM005 **Lab ID: 30246746004** Collected: 03/19/18 10:35 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/23/18 16:38	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 16:38	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 16:38	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 16:38	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/23/18 16:38	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 16:38	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/23/18 16:38	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/23/18 16:38	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 16:38	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/23/18 16:38	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 16:38	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/23/18 16:38	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 16:38	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/23/18 16:38	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/23/18 16:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/23/18 16:38	108-10-1	
Acetone	**12.2**	ug/L	10.0	2.8	1		03/23/18 16:38	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/23/18 16:38	107-13-1	
Benzene	**140**	ug/L	1.0	0.24	1		03/23/18 16:38	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 16:38	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/23/18 16:38	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 16:38	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/23/18 16:38	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 16:38	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 16:38	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/23/18 16:38	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/23/18 16:38	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 16:38	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/23/18 16:38	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/23/18 16:38	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/23/18 16:38	74-95-3	
Ethylbenzene	**4.3**	ug/L	1.0	0.31	1		03/23/18 16:38	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/23/18 16:38	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/23/18 16:38	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/23/18 16:38	75-09-2	
Naphthalene	**899**	ug/L	40.0	16.4	20		03/23/18 16:00	91-20-3	
Styrene	**19.3**	ug/L	1.0	0.17	1		03/23/18 16:38	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 16:38	127-18-4	
Toluene	**69.3**	ug/L	1.0	0.30	1		03/23/18 16:38	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/23/18 16:38	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 16:38	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/23/18 16:38	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 16:38	75-01-4	
Xylene (Total)	**93.5**	ug/L	3.0	0.78	1		03/23/18 16:38	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/23/18 16:38	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 16:38	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO70-PZM005 **Lab ID: 30246746004** Collected: 03/19/18 10:35 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/23/18 16:38	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/23/18 16:38	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/23/18 16:38	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		1		03/23/18 16:38	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	80-120		1		03/23/18 16:38	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		03/23/18 16:38	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		1		03/23/18 16:38	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO69-PZM005 **Lab ID: 30246746005** Collected: 03/19/18 11:15 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/23/18 17:03	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 17:03	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 17:03	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 17:03	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/23/18 17:03	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 17:03	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/23/18 17:03	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/23/18 17:03	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 17:03	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/23/18 17:03	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 17:03	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/23/18 17:03	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 17:03	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		03/23/18 17:03	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/23/18 17:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/23/18 17:03	108-10-1	
Acetone	**4.4J**	ug/L	10.0	2.8	1		03/23/18 17:03	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/23/18 17:03	107-13-1	
Benzene	**223**	ug/L	1.0	0.24	1		03/23/18 17:03	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 17:03	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/23/18 17:03	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 17:03	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/23/18 17:03	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 17:03	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 17:03	56-23-5	
Chlorobenzene	**0.43J**	ug/L	1.0	0.15	1		03/23/18 17:03	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/23/18 17:03	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 17:03	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/23/18 17:03	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/23/18 17:03	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/23/18 17:03	74-95-3	
Ethylbenzene	**6.3**	ug/L	1.0	0.31	1		03/23/18 17:03	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/23/18 17:03	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/23/18 17:03	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/23/18 17:03	75-09-2	
Naphthalene	**1500**	ug/L	40.0	16.4	20		03/23/18 16:25	91-20-3	
Styrene	**44.0**	ug/L	1.0	0.17	1		03/23/18 17:03	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 17:03	127-18-4	
Toluene	**119**	ug/L	1.0	0.30	1		03/23/18 17:03	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/23/18 17:03	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 17:03	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/23/18 17:03	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 17:03	75-01-4	
Xylene (Total)	**142**	ug/L	3.0	0.78	1		03/23/18 17:03	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/23/18 17:03	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 17:03	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO69-PZM005 **Lab ID: 30246746005** Collected: 03/19/18 11:15 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/23/18 17:03	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/23/18 17:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/23/18 17:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	79-129		1		03/23/18 17:03	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	80-120		1		03/23/18 17:03	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		03/23/18 17:03	2037-26-5	
Dibromofluoromethane (S)	97	%	80-120		1		03/23/18 17:03	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO68-PZM005 **Lab ID: 30246746006** Collected: 03/19/18 11:25 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 19:09	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:09	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 19:09	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:09	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 19:09	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:09	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 19:09	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 19:09	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:09	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 19:09	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 19:09	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:09	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:09	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 19:09	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 19:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 19:09	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/23/18 19:09	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 19:09	107-13-1	
Benzene	**339**	ug/L	5.0	1.2	5		03/23/18 19:09	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 19:09	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:09	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:09	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 19:09	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:09	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 19:09	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 19:09	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 19:09	75-00-3	
Chloroform	**2.0J**	ug/L	5.0	1.5	5		03/23/18 19:09	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 19:09	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:09	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 19:09	74-95-3	
Ethylbenzene	**12.8**	ug/L	5.0	1.6	5		03/23/18 19:09	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 19:09	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 19:09	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 19:09	75-09-2	
Naphthalene	**3720**	ug/L	100	41.0	50		03/23/18 18:32	91-20-3	
Styrene	**78.5**	ug/L	5.0	0.85	5		03/23/18 19:09	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:09	127-18-4	
Toluene	**203**	ug/L	5.0	1.5	5		03/23/18 19:09	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 19:09	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:09	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 19:09	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:09	75-01-4	
Xylene (Total)	**292**	ug/L	15.0	3.9	5		03/23/18 19:09	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 19:09	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 19:09	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO68-PZM005 **Lab ID: 30246746006** Collected: 03/19/18 11:25 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 19:09	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 19:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 19:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	79-129		5		03/23/18 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/23/18 19:09	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/23/18 19:09	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		5		03/23/18 19:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO67-PZM006 **Lab ID: 30246746007** Collected: 03/19/18 11:38 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 19:35	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:35	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 19:35	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:35	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 19:35	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:35	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 19:35	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 19:35	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:35	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 19:35	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 19:35	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:35	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 19:35	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 19:35	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 19:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 19:35	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/23/18 19:35	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 19:35	107-13-1	
Benzene	**312**	ug/L	5.0	1.2	5		03/23/18 19:35	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 19:35	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:35	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:35	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 19:35	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:35	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 19:35	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 19:35	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 19:35	75-00-3	
Chloroform	**2.1J**	ug/L	5.0	1.5	5		03/23/18 19:35	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 19:35	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:35	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 19:35	74-95-3	
Ethylbenzene	**11.7**	ug/L	5.0	1.6	5		03/23/18 19:35	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 19:35	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 19:35	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 19:35	75-09-2	
Naphthalene	**3620**	ug/L	100	41.0	50		03/23/18 18:57	91-20-3	
Styrene	**73.5**	ug/L	5.0	0.85	5		03/23/18 19:35	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:35	127-18-4	
Toluene	**191**	ug/L	5.0	1.5	5		03/23/18 19:35	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 19:35	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 19:35	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 19:35	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 19:35	75-01-4	
Xylene (Total)	**268**	ug/L	15.0	3.9	5		03/23/18 19:35	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 19:35	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 19:35	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO67-PZM006 **Lab ID: 30246746007** Collected: 03/19/18 11:38 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 19:35	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 19:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 19:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		03/23/18 19:35	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	80-120		5		03/23/18 19:35	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		03/23/18 19:35	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		5		03/23/18 19:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO66-PZM005 **Lab ID: 30246746008** Collected: 03/19/18 11:57 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 20:00	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:00	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:00	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:00	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 20:00	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:00	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 20:00	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 20:00	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:00	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 20:00	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:00	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:00	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:00	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 20:00	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 20:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 20:00	108-10-1	
Acetone	**14.4J**	ug/L	50.0	14.2	5		03/23/18 20:00	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 20:00	107-13-1	
Benzene	**266**	ug/L	5.0	1.2	5		03/23/18 20:00	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:00	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:00	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:00	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 20:00	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:00	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:00	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 20:00	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 20:00	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/23/18 20:00	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 20:00	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:00	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 20:00	74-95-3	
Ethylbenzene	**9.7**	ug/L	5.0	1.6	5		03/23/18 20:00	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 20:00	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:00	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 20:00	75-09-2	
Naphthalene	**2470**	ug/L	100	41.0	50		03/23/18 19:22	91-20-3	
Styrene	**47.9**	ug/L	5.0	0.85	5		03/23/18 20:00	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:00	127-18-4	
Toluene	**146**	ug/L	5.0	1.5	5		03/23/18 20:00	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 20:00	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:00	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 20:00	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:00	75-01-4	
Xylene (Total)	**206**	ug/L	15.0	3.9	5		03/23/18 20:00	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 20:00	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:00	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO66-PZM005 **Lab ID: 30246746008** Collected: 03/19/18 11:57 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 20:00	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 20:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 20:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		5		03/23/18 20:00	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120		5		03/23/18 20:00	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/23/18 20:00	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		5		03/23/18 20:00	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO65-PZM005 **Lab ID: 30246746009** Collected: 03/19/18 12:10 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 20:25	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:25	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:25	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:25	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 20:25	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:25	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 20:25	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 20:25	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:25	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 20:25	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:25	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:25	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:25	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 20:25	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 20:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 20:25	108-10-1	
Acetone	**19.3J**	ug/L	50.0	14.2	5		03/23/18 20:25	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 20:25	107-13-1	
Benzene	**346**	ug/L	5.0	1.2	5		03/23/18 20:25	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:25	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:25	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:25	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 20:25	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:25	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:25	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 20:25	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 20:25	75-00-3	
Chloroform	**1.5J**	ug/L	5.0	1.5	5		03/23/18 20:25	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 20:25	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:25	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 20:25	74-95-3	
Ethylbenzene	**12.3**	ug/L	5.0	1.6	5		03/23/18 20:25	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 20:25	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:25	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 20:25	75-09-2	
Naphthalene	**3740**	ug/L	100	41.0	50		03/23/18 19:47	91-20-3	
Styrene	**80.2**	ug/L	5.0	0.85	5		03/23/18 20:25	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:25	127-18-4	
Toluene	**213**	ug/L	5.0	1.5	5		03/23/18 20:25	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 20:25	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:25	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 20:25	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:25	75-01-4	
Xylene (Total)	**272**	ug/L	15.0	3.9	5		03/23/18 20:25	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 20:25	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:25	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO65-PZM005 **Lab ID: 30246746009** Collected: 03/19/18 12:10 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 20:25	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 20:25	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 20:25	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	79-129		5		03/23/18 20:25	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/23/18 20:25	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		03/23/18 20:25	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		03/23/18 20:25	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO64-PZM006 **Lab ID: 30246746010** Collected: 03/19/18 12:40 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 20:50	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:50	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:50	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:50	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 20:50	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:50	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 20:50	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 20:50	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:50	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 20:50	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:50	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:50	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 20:50	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 20:50	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 20:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 20:50	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/23/18 20:50	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 20:50	107-13-1	
Benzene	**289**	ug/L	5.0	1.2	5		03/23/18 20:50	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:50	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:50	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:50	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 20:50	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:50	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 20:50	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 20:50	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 20:50	75-00-3	
Chloroform	**6.3**	ug/L	5.0	1.5	5		03/23/18 20:50	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 20:50	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:50	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 20:50	74-95-3	
Ethylbenzene	**11.6**	ug/L	5.0	1.6	5		03/23/18 20:50	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 20:50	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:50	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 20:50	75-09-2	
Naphthalene	**2890**	ug/L	100	41.0	50		03/23/18 20:13	91-20-3	
Styrene	**54.8**	ug/L	5.0	0.85	5		03/23/18 20:50	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:50	127-18-4	
Toluene	**159**	ug/L	5.0	1.5	5		03/23/18 20:50	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 20:50	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 20:50	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 20:50	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 20:50	75-01-4	
Xylene (Total)	**231**	ug/L	15.0	3.9	5		03/23/18 20:50	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 20:50	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 20:50	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO64-PZM006 **Lab ID: 30246746010** Collected: 03/19/18 12:40 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 20:50	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 20:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 20:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	79-129		5		03/23/18 20:50	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/23/18 20:50	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/23/18 20:50	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		03/23/18 20:50	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO63-PZM007 **Lab ID: 30246746011** Collected: 03/19/18 13:35 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 21:16	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:16	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 21:16	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:16	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 21:16	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:16	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 21:16	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 21:16	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:16	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 21:16	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 21:16	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:16	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:16	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 21:16	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 21:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 21:16	108-10-1	
Acetone	**15.0J**	ug/L	50.0	14.2	5		03/23/18 21:16	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 21:16	107-13-1	
Benzene	**232**	ug/L	5.0	1.2	5		03/23/18 21:16	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 21:16	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:16	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:16	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 21:16	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:16	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 21:16	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 21:16	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 21:16	75-00-3	
Chloroform	**3.6J**	ug/L	5.0	1.5	5		03/23/18 21:16	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 21:16	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:16	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 21:16	74-95-3	
Ethylbenzene	**11.7**	ug/L	5.0	1.6	5		03/23/18 21:16	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 21:16	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 21:16	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 21:16	75-09-2	
Naphthalene	**2110**	ug/L	100	41.0	50		03/23/18 20:38	91-20-3	
Styrene	**48.9**	ug/L	5.0	0.85	5		03/23/18 21:16	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:16	127-18-4	
Toluene	**152**	ug/L	5.0	1.5	5		03/23/18 21:16	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 21:16	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:16	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 21:16	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:16	75-01-4	
Xylene (Total)	**240**	ug/L	15.0	3.9	5		03/23/18 21:16	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 21:16	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 21:16	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO63-PZM007 **Lab ID: 30246746011** Collected: 03/19/18 13:35 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 21:16	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 21:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 21:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		03/23/18 21:16	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120		5		03/23/18 21:16	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/23/18 21:16	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		5		03/23/18 21:16	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO62-PZM007 **Lab ID: 30246746012** Collected: 03/19/18 13:52 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		03/23/18 17:28	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 17:28	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 17:28	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 17:28	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		03/23/18 17:28	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 17:28	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		03/23/18 17:28	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		03/23/18 17:28	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 17:28	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		03/23/18 17:28	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 17:28	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		03/23/18 17:28	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		03/23/18 17:28	106-46-7	
2-Butanone (MEK)	**6.2J**	ug/L	10.0	2.1	1		03/23/18 17:28	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		03/23/18 17:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		03/23/18 17:28	108-10-1	
Acetone	**15.6**	ug/L	10.0	2.8	1		03/23/18 17:28	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		03/23/18 17:28	107-13-1	
Benzene	**93.4**	ug/L	1.0	0.24	1		03/23/18 17:28	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 17:28	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		03/23/18 17:28	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 17:28	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		03/23/18 17:28	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 17:28	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		03/23/18 17:28	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		03/23/18 17:28	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		03/23/18 17:28	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		03/23/18 17:28	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		03/23/18 17:28	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		03/23/18 17:28	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		03/23/18 17:28	74-95-3	
Ethylbenzene	**6.4**	ug/L	1.0	0.31	1		03/23/18 17:28	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		03/23/18 17:28	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		03/23/18 17:28	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		03/23/18 17:28	75-09-2	
Naphthalene	**466**	ug/L	40.0	16.4	20		03/23/18 16:51	91-20-3	
Styrene	**15.2**	ug/L	1.0	0.17	1		03/23/18 17:28	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		03/23/18 17:28	127-18-4	
Toluene	**75.3**	ug/L	1.0	0.30	1		03/23/18 17:28	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		03/23/18 17:28	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		03/23/18 17:28	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		03/23/18 17:28	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		03/23/18 17:28	75-01-4	
Xylene (Total)	**118**	ug/L	3.0	0.78	1		03/23/18 17:28	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		03/23/18 17:28	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		03/23/18 17:28	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO62-PZM007 **Lab ID: 30246746012** Collected: 03/19/18 13:52 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		03/23/18 17:28	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		03/23/18 17:28	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		03/23/18 17:28	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	79-129		1		03/23/18 17:28	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120		1		03/23/18 17:28	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		03/23/18 17:28	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		1		03/23/18 17:28	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO61-PZM007 **Lab ID: 30246746013** Collected: 03/19/18 14:05 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 21:41	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:41	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 21:41	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:41	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 21:41	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:41	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 21:41	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 21:41	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:41	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 21:41	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 21:41	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:41	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 21:41	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 21:41	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 21:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 21:41	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		03/23/18 21:41	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 21:41	107-13-1	
Benzene	**216**	ug/L	5.0	1.2	5		03/23/18 21:41	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 21:41	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:41	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:41	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 21:41	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:41	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 21:41	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 21:41	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 21:41	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/23/18 21:41	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 21:41	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:41	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 21:41	74-95-3	
Ethylbenzene	**11.1**	ug/L	5.0	1.6	5		03/23/18 21:41	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 21:41	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 21:41	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 21:41	75-09-2	
Naphthalene	**2440**	ug/L	100	41.0	50		03/23/18 21:03	91-20-3	
Styrene	**26.7**	ug/L	5.0	0.85	5		03/23/18 21:41	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:41	127-18-4	
Toluene	**115**	ug/L	5.0	1.5	5		03/23/18 21:41	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 21:41	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 21:41	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 21:41	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 21:41	75-01-4	
Xylene (Total)	**185**	ug/L	15.0	3.9	5		03/23/18 21:41	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 21:41	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 21:41	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO61-PZM007 **Lab ID: 30246746013** Collected: 03/19/18 14:05 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 21:41	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 21:41	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 21:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		5		03/23/18 21:41	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120		5		03/23/18 21:41	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		03/23/18 21:41	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		5		03/23/18 21:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO46-PZM047 **Lab ID: 30246746014** Collected: 03/19/18 15:20 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 22:06	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:06	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:06	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:06	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 22:06	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:06	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 22:06	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 22:06	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:06	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 22:06	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:06	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:06	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:06	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 22:06	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 22:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 22:06	108-10-1	
Acetone	**20.7J**	ug/L	50.0	14.2	5		03/23/18 22:06	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 22:06	107-13-1	
Benzene	**104000**	ug/L	1000	240	1000		03/23/18 21:28	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:06	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:06	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:06	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 22:06	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:06	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:06	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 22:06	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 22:06	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		03/23/18 22:06	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 22:06	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:06	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 22:06	74-95-3	
Ethylbenzene	**382**	ug/L	5.0	1.6	5		03/23/18 22:06	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 22:06	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:06	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 22:06	75-09-2	
Naphthalene	**1550**	ug/L	10.0	4.1	5		03/23/18 22:06	91-20-3	
Styrene	**69.5**	ug/L	5.0	0.85	5		03/23/18 22:06	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:06	127-18-4	
Toluene	**7210**	ug/L	1000	300	1000		03/23/18 21:28	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 22:06	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:06	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 22:06	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:06	75-01-4	
Xylene (Total)	**3280**	ug/L	15.0	3.9	5		03/23/18 22:06	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 22:06	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO46-PZM047 **Lab ID: 30246746014** Collected: 03/19/18 15:20 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 22:06	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 22:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 22:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		5		03/23/18 22:06	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	80-120		5		03/23/18 22:06	17060-07-0	
Toluene-d8 (S)	102	%	80-120		5		03/23/18 22:06	2037-26-5	
Dibromofluoromethane (S)	95	%	80-120		5		03/23/18 22:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO47-PZM046 **Lab ID: 30246746015** Collected: 03/19/18 15:08 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 22:31	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:31	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:31	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:31	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 22:31	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:31	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 22:31	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 22:31	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:31	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 22:31	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:31	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:31	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:31	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 22:31	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 22:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 22:31	108-10-1	
Acetone	**40.6J**	ug/L	50.0	14.2	5		03/23/18 22:31	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 22:31	107-13-1	
Benzene	**24200**	ug/L	1000	240	1000		03/23/18 21:53	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:31	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:31	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:31	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 22:31	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:31	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:31	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 22:31	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 22:31	75-00-3	
Chloroform	**4.5J**	ug/L	5.0	1.5	5		03/23/18 22:31	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 22:31	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:31	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 22:31	74-95-3	
Ethylbenzene	**209**	ug/L	5.0	1.6	5		03/23/18 22:31	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 22:31	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:31	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 22:31	75-09-2	
Naphthalene	**1220**	ug/L	10.0	4.1	5		03/23/18 22:31	91-20-3	
Styrene	**289**	ug/L	5.0	0.85	5		03/23/18 22:31	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:31	127-18-4	
Toluene	**6530**	ug/L	1000	300	1000		03/23/18 21:53	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 22:31	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:31	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 22:31	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:31	75-01-4	
Xylene (Total)	**1760**	ug/L	15.0	3.9	5		03/23/18 22:31	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 22:31	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO47-PZM046 **Lab ID: 30246746015** Collected: 03/19/18 15:08 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 22:31	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 22:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 22:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		5		03/23/18 22:31	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	80-120		5		03/23/18 22:31	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		03/23/18 22:31	2037-26-5	
Dibromofluoromethane (S)	93	%	80-120		5		03/23/18 22:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO48-PZM044 **Lab ID: 30246746016** Collected: 03/19/18 15:18 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 22:57	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:57	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:57	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:57	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		03/23/18 22:57	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:57	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		03/23/18 22:57	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		03/23/18 22:57	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:57	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		03/23/18 22:57	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:57	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:57	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		03/23/18 22:57	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		03/23/18 22:57	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		03/23/18 22:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		03/23/18 22:57	108-10-1	
Acetone	**14.7J**	ug/L	50.0	14.2	5		03/23/18 22:57	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		03/23/18 22:57	107-13-1	
Benzene	**14400**	ug/L	500	120	500		03/23/18 22:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:57	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:57	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:57	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		03/23/18 22:57	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:57	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		03/23/18 22:57	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		03/23/18 22:57	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		03/23/18 22:57	75-00-3	
Chloroform	**3.6J**	ug/L	5.0	1.5	5		03/23/18 22:57	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		03/23/18 22:57	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:57	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 22:57	74-95-3	
Ethylbenzene	**212**	ug/L	5.0	1.6	5		03/23/18 22:57	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		03/23/18 22:57	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:57	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		03/23/18 22:57	75-09-2	
Naphthalene	**1480**	ug/L	10.0	4.1	5		03/23/18 22:57	91-20-3	
Styrene	**332**	ug/L	5.0	0.85	5		03/23/18 22:57	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:57	127-18-4	
Toluene	**7140**	ug/L	500	150	500		03/23/18 22:19	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		03/23/18 22:57	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		03/23/18 22:57	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		03/23/18 22:57	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		03/23/18 22:57	75-01-4	
Xylene (Total)	**1800**	ug/L	15.0	3.9	5		03/23/18 22:57	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		03/23/18 22:57	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		03/23/18 22:57	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30246746

Sample: CO48-PZM044 **Lab ID: 30246746016** Collected: 03/19/18 15:18 Received: 03/19/18 22:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		03/23/18 22:57	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		03/23/18 22:57	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		03/23/18 22:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	79-129		5		03/23/18 22:57	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	80-120		5		03/23/18 22:57	17060-07-0	
Toluene-d8 (S)	98	%	80-120		5		03/23/18 22:57	2037-26-5	
Dibromofluoromethane (S)	96	%	80-120		5		03/23/18 22:57	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246746

QC Batch: 292345 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30246746001, 30246746002, 30246746003, 30246746004, 30246746005, 30246746006, 30246746007, 30246746008, 30246746009, 30246746010, 30246746011, 30246746012, 30246746013, 30246746014, 30246746015, 30246746016

METHOD BLANK: 1430517 Matrix: Water
Associated Lab Samples: 30246746001, 30246746002, 30246746003, 30246746004, 30246746005, 30246746006, 30246746007, 30246746008, 30246746009, 30246746010, 30246746011, 30246746012, 30246746013, 30246746014, 30246746015, 30246746016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	03/23/18 14:32	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	03/23/18 14:32	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	03/23/18 14:32	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	03/23/18 14:32	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	03/23/18 14:32	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	03/23/18 14:32	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	03/23/18 14:32	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	03/23/18 14:32	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	03/23/18 14:32	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	03/23/18 14:32	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	03/23/18 14:32	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	03/23/18 14:32	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	03/23/18 14:32	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	03/23/18 14:32	
2-Hexanone	ug/L	10.0 U	10.0	0.66	03/23/18 14:32	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	03/23/18 14:32	
Acetone	ug/L	10.0 U	10.0	2.8	03/23/18 14:32	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	03/23/18 14:32	
Benzene	ug/L	1.0 U	1.0	0.24	03/23/18 14:32	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	03/23/18 14:32	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	03/23/18 14:32	
Bromoform	ug/L	1.0 U	1.0	0.32	03/23/18 14:32	
Bromomethane	ug/L	1.0 U	1.0	0.49	03/23/18 14:32	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	03/23/18 14:32	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	03/23/18 14:32	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	03/23/18 14:32	
Chloroethane	ug/L	1.0 U	1.0	0.55	03/23/18 14:32	
Chloroform	ug/L	1.0 U	1.0	0.30	03/23/18 14:32	
Chloromethane	ug/L	1.0 U	1.0	0.68	03/23/18 14:32	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	03/23/18 14:32	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	03/23/18 14:32	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	03/23/18 14:32	
Dibromomethane	ug/L	1.0 U	1.0	0.40	03/23/18 14:32	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	03/23/18 14:32	
Iodomethane	ug/L	50.0 U	50.0	0.67	03/23/18 14:32	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	03/23/18 14:32	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	03/23/18 14:32	
Naphthalene	ug/L	2.0 U	2.0	0.82	03/23/18 14:32	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246746

METHOD BLANK: 1430517 Matrix: Water

Associated Lab Samples: 30246746001, 30246746002, 30246746003, 30246746004, 30246746005, 30246746006, 30246746007, 30246746008, 30246746009, 30246746010, 30246746011, 30246746012, 30246746013, 30246746014, 30246746015, 30246746016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Styrene	ug/L	1.0 U	1.0	0.17	03/23/18 14:32	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	03/23/18 14:32	
Toluene	ug/L	1.0 U	1.0	0.30	03/23/18 14:32	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	03/23/18 14:32	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	03/23/18 14:32	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	03/23/18 14:32	
Trichloroethene	ug/L	1.0 U	1.0	0.39	03/23/18 14:32	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	03/23/18 14:32	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	03/23/18 14:32	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	03/23/18 14:32	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	03/23/18 14:32	
1,2-Dichloroethane-d4 (S)	%	93	80-120		03/23/18 14:32	
4-Bromofluorobenzene (S)	%	107	79-129		03/23/18 14:32	
Dibromofluoromethane (S)	%	103	80-120		03/23/18 14:32	
Toluene-d8 (S)	%	96	80-120		03/23/18 14:32	

LABORATORY CONTROL SAMPLE: 1430518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,1-Trichloroethane	ug/L	20	17.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	20	17.0	85	70-130	
1,1-Dichloroethene	ug/L	20	17.5	88	70-130	
1,2,3-Trichloropropane	ug/L	20	19.5	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.7	98	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	70-130	
1,2-Dichlorobenzene	ug/L	20	20.7	104	70-130	
1,2-Dichloroethane	ug/L	20	16.5	82	70-130	
1,2-Dichloropropane	ug/L	20	18.0	90	70-130	
1,4-Dichlorobenzene	ug/L	20	20.1	101	70-130	
2-Butanone (MEK)	ug/L	20	16.5	82	72-170	
2-Hexanone	ug/L	20	15.4	77	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.4	82	66-150	
Acetone	ug/L	20	19.8	99	30-179	
Acrylonitrile	ug/L	20	17.4	87	48-172	
Benzene	ug/L	20	17.8	89	70-130	
Bromochloromethane	ug/L	20	21.3	107	70-130	
Bromodichloromethane	ug/L	20	16.4	82	70-130	
Bromoform	ug/L	20	18.4	92	70-130	
Bromomethane	ug/L	20	19.8	99	47-174	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246746

LABORATORY CONTROL SAMPLE: 1430518

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon disulfide	ug/L	20	17.7	88	43-133	
Carbon tetrachloride	ug/L	20	17.7	89	56-143	
Chlorobenzene	ug/L	20	18.6	93	70-130	
Chloroethane	ug/L	20	18.8	94	67-139	
Chloroform	ug/L	20	17.1	85	70-130	
Chloromethane	ug/L	20	18.2	91	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.0	85	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.3	81	70-130	
Dibromochloromethane	ug/L	20	18.0	90	70-130	
Dibromomethane	ug/L	20	21.0	105	70-130	
Ethylbenzene	ug/L	20	17.9	89	70-130	
Iodomethane	ug/L	20	11.5J	57	10-175	
Methyl-tert-butyl ether	ug/L	20	17.9	89	70-130	
Methylene Chloride	ug/L	20	15.4	77	55-144	
Naphthalene	ug/L	20	21.4	107	70-130	
Styrene	ug/L	20	18.5	92	70-130	
Tetrachloroethene	ug/L	20	19.8	99	70-130	
Toluene	ug/L	20	17.5	88	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.7	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	13.5	67	27-116	
Trichloroethene	ug/L	20	18.9	94	70-130	
Trichlorofluoromethane	ug/L	20	25.9	129	60-148	
Vinyl acetate	ug/L	20	14.7	74	30-181	
Vinyl chloride	ug/L	20	21.0	105	70-130	
Xylene (Total)	ug/L	60	54.7	91	70-130	
1,2-Dichloroethane-d4 (S)	%			87	80-120	
4-Bromofluorobenzene (S)	%			107	79-129	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1430566 1430567

Parameter	Units	30246603003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.9	15.5	80	78	51-124	2	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	15.4	15.2	77	76	79-129	2	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.8	15.9	79	79	57-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.9	16.9	84	84	68-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.0	15.6	80	78	74-119	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	14.6	15.1	73	76	63-126	4	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.5	15.9	83	79	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.6	14.5	73	72	53-120	1	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.9	17.6	85	88	69-124	4	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30246746

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1430566 1430567

Parameter	Units	30246603003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	17.0	16.8	85	84	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	15.1	75	75	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.6	15.4	78	77	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.1	16.8	85	84	72-118	2	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.6	18.4	93	92	72-168	1	30	
2-Hexanone	ug/L	10.0 U	20	20	15.3	14.6	77	73	66-143	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.7	17.9	93	90	67-145	4	30	
Acetone	ug/L	3.8J	20	20	22.2	21.7	92	90	15-175	2	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.4	16.1	82	81	36-165	2	30	
Benzene	ug/L	1.0 U	20	20	16.0	16.3	80	81	67-121	2	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.7	19.4	99	97	62-128	2	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.5	15.7	77	78	66-127	2	30	
Bromoform	ug/L	1.0 U	20	20	14.7	14.5	73	72	71-127	1	30	
Bromomethane	ug/L	1.0 U	20	20	16.7	17.8	83	89	10-156	6	30	
Carbon disulfide	ug/L	1.0 U	20	20	12.4	13.4	62	67	45-131	8	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.7	15.3	78	76	69-134	2	30	
Chlorobenzene	ug/L	1.0 U	20	20	16.7	16.3	83	81	69-119	2	30	
Chloroethane	ug/L	1.0 U	20	20	23.2	22.5	116	113	60-156	3	30	
Chloroform	ug/L	1.0 U	20	20	15.1	15.1	76	75	69-115	0	30	
Chloromethane	ug/L	1.0 U	20	20	17.1	17.4	85	87	52-145	2	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.5	14.6	73	73	65-120	0	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.8	14.3	74	72	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	15.5	15.4	78	77	64-131	1	30	
Dibromomethane	ug/L	1.0 U	20	20	20.0	19.3	100	96	56-133	4	30	
Ethylbenzene	ug/L	1.0 U	20	20	16.1	15.6	80	78	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	8.7J	13.8J	44	69	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	17.1	17.2	85	86	79-135	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.7	13.8	69	69	54-133	1	30	
Naphthalene	ug/L	2.0 U	20	20	17.1	16.7	85	84	62-131	2	30	
Styrene	ug/L	1.0 U	20	20	15.9	15.8	80	79	65-121	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.4	17.4	87	87	77-125	0	30	
Toluene	ug/L	1.0 U	20	20	15.7	15.7	78	78	77-125	0	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.7	14.4	74	72	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.2	14.0	71	70	52-125	1	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.4	7.1	37	36	13-100	4	30	
Trichloroethene	ug/L	1.0 U	20	20	17.4	16.9	87	84	74-128	3	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	26.6	25.7	133	128	54-164	4	30	
Vinyl acetate	ug/L	10.0 U	20	20	12.0	11.8	60	59	15-173	2	30	
Vinyl chloride	ug/L	1.0 U	20	20	21.1	20.5	105	102	60-131	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	47.1	46.4	78	77	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%						88	93	80-120			
4-Bromofluorobenzene (S)	%						106	108	79-129			
Dibromofluoromethane (S)	%						107	107	80-120			
Toluene-d8 (S)	%						97	98	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30246746

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30246746

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30246746001	**Trip Blank**	EPA 8260B	292345		
30246746002	**CO72-PZM005**	EPA 8260B	292345		
30246746003	**CO71-PZM006**	EPA 8260B	292345		
30246746004	**CO70-PZM005**	EPA 8260B	292345		
30246746005	**CO69-PZM005**	EPA 8260B	292345		
30246746006	**CO68-PZM005**	EPA 8260B	292345		
30246746007	**CO67-PZM006**	EPA 8260B	292345		
30246746008	**CO66-PZM005**	EPA 8260B	292345		
30246746009	**CO65-PZM005**	EPA 8260B	292345		
30246746010	**CO64-PZM006**	EPA 8260B	292345		
30246746011	**CO63-PZM007**	EPA 8260B	292345		
30246746012	**CO62-PZM007**	EPA 8260B	292345		
30246746013	**CO61-PZM007**	EPA 8260B	292345		
30246746014	**CO46-PZM047**	EPA 8260B	292345		
30246746015	**CO47-PZM046**	EPA 8260B	292345		
30246746016	**CO48-PZM044**	EPA 8260B	292345		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A
Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B
Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384M-1-2

Section C
Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO# : 30246746
30246746

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	Residual Ch	Pace Project No./ Lab I.D.
1	Trip Blank					3/19/18	—		2				2						X		001
2	C072-PZM005						953		3				3						X		002
3	C071-PZM006						1005		3				3						X		003
4	C070-PZM005						1035		3				3						X		004
5	C069-PZM005						1115		3				3						X		005
6	C068-PZM005						1125		3				3						X		006
7	C067-PZM006						1138		3				3						X		007
8	C066-PZM005						1157		3				3						X		008
9	C065-PZM005						1210		3				3						X		009
10	C064-PZM006						1240		3				3						X		010
11	C063-PZM007						1335		3				3						X		011
12	C062-PZM007						1352		3				3						X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3/19/18	1615	David L Hillegan / Pace	3/19/18	1615				
	David L Hillegan / Pace	3/19/18	1920	[signature]	3/19/18	1830				
	[signature]	3/19/18	2250	Ashleghan / Pace	3/19/18	2250	2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perron

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 3/19/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

Section A
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Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

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Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384M-1-2

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Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
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PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N N 302467

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOC + NAPH by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	C061-PZM007	WT	G			3/19/18	1405		3				3					X		013
2	C046-PZM047	WT	G				1500		3				3					X		014
3	C047-PZM046	WT	G				1508		3				3					X		015
4	C048-PZM044	WT	G				1518		3				3					X		016
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3/19/18	1615	David L Hillegan / Pace	3/19/18	1615				
	David L Hillegan / Pace	3/19/18	1920	[signature]	3-19-18	1930				
	[signature]	3-19-18	2250	[signature] / Pace	3-19-18	2250	2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perron

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 3/19/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: EnviroAna. Project # 30246746

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label 7H
LIMS Login AON

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.6 °C Correction Factor: +0.0 °C Final Temp: 2.6 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: AM 3-20-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID Matrix: WT				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation.			X	16.
All containers needing preservation are found to be in compliance with EPA recommendation.			X	
exceptions: (VOA), coliform, TOC, O&G, Phenolics				Initial when completed / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):	X			17. 1 trip blank vial
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: / Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 15, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30254879

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 04, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Greensburg, PA 15601
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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30254879

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30254879001	**Trip Blank**	Water	06/04/18 00:01	06/04/18 22:30
30254879002	**CO36-PZM008**	Water	06/04/18 09:50	06/04/18 22:30
30254879003	**CO36-PZM043**	Water	06/04/18 10:15	06/04/18 22:30
30254879004	**CO38-PZM006**	Water	06/04/18 11:10	06/04/18 22:30
30254879005	**CO38-PZM043**	Water	06/04/18 11:45	06/04/18 22:30
30254879006	**CO39-PZM042**	Water	06/04/18 13:15	06/04/18 22:30
30254879007	**CO39-PZM007**	Water	06/04/18 13:40	06/04/18 22:30
30254879008	**CO41-PZM001**	Water	06/04/18 14:30	06/04/18 22:30
30254879009	**CO41-PZM036**	Water	06/04/18 15:05	06/04/18 22:30

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30254879

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30254879001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30254879002	**CO36-PZM008**	EPA 8260B	LEL	53	PASI-PA
30254879003	**CO36-PZM043**	EPA 8260B	LEL	53	PASI-PA
30254879004	**CO38-PZM006**	EPA 8260B	LEL	53	PASI-PA
30254879005	**CO38-PZM043**	EPA 8260B	LEL	53	PASI-PA
30254879006	**CO39-PZM042**	EPA 8260B	LEL	53	PASI-PA
30254879007	**CO39-PZM007**	EPA 8260B	LEL	53	PASI-PA
30254879008	**CO41-PZM001**	EPA 8260B	LEL	53	PASI-PA
30254879009	**CO41-PZM036**	EPA 8260B	LEL	53	PASI-PA

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: Trip Blank **Lab ID: 30254879001** Collected: 06/04/18 00:01 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 17:57	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 17:57	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 17:57	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 17:57	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 17:57	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 17:57	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 17:57	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/12/18 17:57	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 17:57	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 17:57	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 17:57	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 17:57	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 17:57	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/12/18 17:57	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/12/18 17:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/12/18 17:57	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		06/12/18 17:57	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 17:57	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/12/18 17:57	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 17:57	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 17:57	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 17:57	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 17:57	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 17:57	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 17:57	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 17:57	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 17:57	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 17:57	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 17:57	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 17:57	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 17:57	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 17:57	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/12/18 17:57	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 17:57	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 17:57	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/12/18 17:57	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/12/18 17:57	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 17:57	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 17:57	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 17:57	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 17:57	75-69-4	CH,L1
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/12/18 17:57	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 17:57	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/12/18 17:57	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 17:57	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 17:57	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: Trip Blank **Lab ID: 30254879001** Collected: 06/04/18 00:01 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 17:57	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 17:57	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/12/18 17:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		1		06/12/18 17:57	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		06/12/18 17:57	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		06/12/18 17:57	2037-26-5	
Dibromofluoromethane (S)	108	%	80-120		1		06/12/18 17:57	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO36-PZM008 **Lab ID: 30254879002** Collected: 06/04/18 09:50 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 00:25	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:25	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 00:25	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:25	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/13/18 00:25	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:25	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/13/18 00:25	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/13/18 00:25	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:25	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/13/18 00:25	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 00:25	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:25	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:25	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/13/18 00:25	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/13/18 00:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/13/18 00:25	108-10-1	
Acetone	**25.3J**	ug/L	50.0	14.2	5		06/13/18 00:25	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/13/18 00:25	107-13-1	
Benzene	**23400**	ug/L	100	24.0	100		06/12/18 22:55	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 00:25	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:25	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:25	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/13/18 00:25	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:25	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 00:25	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/13/18 00:25	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 00:25	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/13/18 00:25	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/13/18 00:25	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:25	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 00:25	74-95-3	
Ethylbenzene	**88.6**	ug/L	5.0	1.6	5		06/13/18 00:25	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/13/18 00:25	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 00:25	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/13/18 00:25	75-09-2	
Naphthalene	**752**	ug/L	10.0	4.1	5		06/13/18 00:25	91-20-3	
Styrene	**25.8**	ug/L	5.0	0.85	5		06/13/18 00:25	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:25	127-18-4	
Toluene	**5590**	ug/L	100	30.0	100		06/12/18 22:55	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 00:25	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:25	75-69-4	CH,L1
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/13/18 00:25	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:25	75-01-4	
Xylene (Total)	**1610**	ug/L	15.0	3.9	5		06/13/18 00:25	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/13/18 00:25	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 00:25	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO36-PZM008 **Lab ID: 30254879002** Collected: 06/04/18 09:50 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/13/18 00:25	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/13/18 00:25	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/13/18 00:25	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		5		06/13/18 00:25	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		5		06/13/18 00:25	17060-07-0	
Toluene-d8 (S)	101	%	80-120		5		06/13/18 00:25	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		06/13/18 00:25	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO36-PZM043 **Lab ID: 30254879003** Collected: 06/04/18 10:15 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 00:50	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:50	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 00:50	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:50	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/13/18 00:50	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:50	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/13/18 00:50	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/13/18 00:50	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:50	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/13/18 00:50	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 00:50	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:50	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 00:50	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/13/18 00:50	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/13/18 00:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/13/18 00:50	108-10-1	
Acetone	**60.0**	ug/L	50.0	14.2	5		06/13/18 00:50	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/13/18 00:50	107-13-1	
Benzene	**17200**	ug/L	100	24.0	100		06/12/18 23:21	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 00:50	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:50	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:50	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/13/18 00:50	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:50	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 00:50	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/13/18 00:50	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 00:50	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/13/18 00:50	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/13/18 00:50	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:50	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 00:50	74-95-3	
Ethylbenzene	**22.8**	ug/L	5.0	1.6	5		06/13/18 00:50	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/13/18 00:50	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 00:50	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/13/18 00:50	75-09-2	
Naphthalene	**414**	ug/L	10.0	4.1	5		06/13/18 00:50	91-20-3	
Styrene	**5.2**	ug/L	5.0	0.85	5		06/13/18 00:50	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:50	127-18-4	
Toluene	**1810**	ug/L	5.0	1.5	5		06/13/18 00:50	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 00:50	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 00:50	75-69-4	CH,L1
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/13/18 00:50	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 00:50	75-01-4	
Xylene (Total)	**380**	ug/L	15.0	3.9	5		06/13/18 00:50	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/13/18 00:50	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 00:50	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO36-PZM043 **Lab ID: 30254879003** Collected: 06/04/18 10:15 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/13/18 00:50	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/13/18 00:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/13/18 00:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		5		06/13/18 00:50	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		5		06/13/18 00:50	17060-07-0	
Toluene-d8 (S)	101	%	80-120		5		06/13/18 00:50	2037-26-5	
Dibromofluoromethane (S)	97	%	80-120		5		06/13/18 00:50	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO38-PZM006 **Lab ID: 30254879004** Collected: 06/04/18 11:10 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 01:16	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:16	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 01:16	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:16	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/13/18 01:16	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:16	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/13/18 01:16	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/13/18 01:16	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:16	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/13/18 01:16	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 01:16	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:16	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:16	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/13/18 01:16	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/13/18 01:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/13/18 01:16	108-10-1	
Acetone	**22.4J**	ug/L	50.0	14.2	5		06/13/18 01:16	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/13/18 01:16	107-13-1	
Benzene	**5520**	ug/L	100	24.0	100		06/12/18 23:46	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 01:16	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:16	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:16	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/13/18 01:16	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:16	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 01:16	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/13/18 01:16	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 01:16	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/13/18 01:16	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/13/18 01:16	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:16	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 01:16	74-95-3	
Ethylbenzene	**60.1**	ug/L	5.0	1.6	5		06/13/18 01:16	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/13/18 01:16	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 01:16	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/13/18 01:16	75-09-2	
Naphthalene	**1320**	ug/L	10.0	4.1	5		06/13/18 01:16	91-20-3	
Styrene	**43.7**	ug/L	5.0	0.85	5		06/13/18 01:16	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:16	127-18-4	
Toluene	**1060**	ug/L	5.0	1.5	5		06/13/18 01:16	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 01:16	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:16	75-69-4	CH,L1
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/13/18 01:16	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:16	75-01-4	
Xylene (Total)	**478**	ug/L	15.0	3.9	5		06/13/18 01:16	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/13/18 01:16	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 01:16	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO38-PZM006 **Lab ID: 30254879004** Collected: 06/04/18 11:10 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/13/18 01:16	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/13/18 01:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/13/18 01:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		5		06/13/18 01:16	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		5		06/13/18 01:16	17060-07-0	
Toluene-d8 (S)	101	%	80-120		5		06/13/18 01:16	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		5		06/13/18 01:16	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO38-PZM043 **Lab ID: 30254879005** Collected: 06/04/18 11:45 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 18:48	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 18:48	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 18:48	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 18:48	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 18:48	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 18:48	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 18:48	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 18:48	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 18:48	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 18:48	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 18:48	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 18:48	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 18:48	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 18:48	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 18:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 18:48	108-10-1	
Acetone	**3.2J**	ug/L	10.0	2.8	1		06/12/18 18:48	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 18:48	107-13-1	
Benzene	**3.8**	ug/L	1.0	0.24	1		06/12/18 18:48	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 18:48	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 18:48	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 18:48	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 18:48	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 18:48	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 18:48	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 18:48	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 18:48	75-00-3	L1,MH
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 18:48	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 18:48	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 18:48	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 18:48	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 18:48	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 18:48	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 18:48	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 18:48	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/12/18 18:48	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/12/18 18:48	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 18:48	127-18-4	ML
Toluene	**0.39J**	ug/L	1.0	0.30	1		06/12/18 18:48	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 18:48	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 18:48	75-69-4	CH,L1, MH
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 18:48	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 18:48	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/12/18 18:48	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 18:48	156-59-2	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO38-PZM043 **Lab ID: 30254879005** Collected: 06/04/18 11:45 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 18:48	10061-01-5	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 18:48	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 18:48	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 18:48	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		1		06/12/18 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		06/12/18 18:48	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		06/12/18 18:48	2037-26-5	
Dibromofluoromethane (S)	108	%	80-120		1		06/12/18 18:48	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO39-PZM042 **Lab ID: 30254879006** Collected: 06/04/18 13:15 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 01:42	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:42	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 01:42	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:42	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/13/18 01:42	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:42	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/13/18 01:42	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/13/18 01:42	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:42	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/13/18 01:42	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 01:42	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:42	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 01:42	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/13/18 01:42	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/13/18 01:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/13/18 01:42	108-10-1	
Acetone	**25.9J**	ug/L	50.0	14.2	5		06/13/18 01:42	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/13/18 01:42	107-13-1	
Benzene	**1090**	ug/L	5.0	1.2	5		06/13/18 01:42	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 01:42	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:42	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:42	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/13/18 01:42	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:42	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 01:42	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/13/18 01:42	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 01:42	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/13/18 01:42	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/13/18 01:42	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:42	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 01:42	74-95-3	
Ethylbenzene	**7.6**	ug/L	5.0	1.6	5		06/13/18 01:42	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/13/18 01:42	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 01:42	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/13/18 01:42	75-09-2	
Naphthalene	**1040**	ug/L	10.0	4.1	5		06/13/18 01:42	91-20-3	
Styrene	**10**	ug/L	5.0	0.85	5		06/13/18 01:42	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:42	127-18-4	
Toluene	**272**	ug/L	5.0	1.5	5		06/13/18 01:42	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 01:42	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 01:42	75-69-4	CH,L1
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/13/18 01:42	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 01:42	75-01-4	
Xylene (Total)	**69.8**	ug/L	15.0	3.9	5		06/13/18 01:42	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/13/18 01:42	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 01:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO39-PZM042 **Lab ID: 30254879006** Collected: 06/04/18 13:15 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/13/18 01:42	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/13/18 01:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/13/18 01:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	79-129		5		06/13/18 01:42	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		5		06/13/18 01:42	17060-07-0	
Toluene-d8 (S)	100	%	80-120		5		06/13/18 01:42	2037-26-5	
Dibromofluoromethane (S)	106	%	80-120		5		06/13/18 01:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO39-PZM007 **Lab ID: 30254879007** Collected: 06/04/18 13:40 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 22:41	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 22:41	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 22:41	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 22:41	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 22:41	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 22:41	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 22:41	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 22:41	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 22:41	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 22:41	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 22:41	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 22:41	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 22:41	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 22:41	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 22:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 22:41	108-10-1	
Acetone	**3.8J**	ug/L	10.0	2.8	1		06/12/18 22:41	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 22:41	107-13-1	
Benzene	**355**	ug/L	20.0	4.8	20		06/12/18 21:12	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 22:41	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 22:41	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 22:41	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 22:41	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 22:41	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 22:41	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 22:41	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 22:41	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 22:41	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 22:41	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 22:41	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 22:41	74-95-3	
Ethylbenzene	**2.2**	ug/L	1.0	0.31	1		06/12/18 22:41	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 22:41	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 22:41	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 22:41	75-09-2	
Naphthalene	**880**	ug/L	40.0	16.4	20		06/12/18 21:12	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/12/18 22:41	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 22:41	127-18-4	
Toluene	**21.1**	ug/L	1.0	0.30	1		06/12/18 22:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 22:41	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 22:41	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 22:41	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 22:41	75-01-4	
Xylene (Total)	**12.4**	ug/L	3.0	0.78	1		06/12/18 22:41	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 22:41	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 22:41	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO39-PZM007 **Lab ID: 30254879007** Collected: 06/04/18 13:40 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 22:41	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 22:41	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 22:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	79-129		1		06/12/18 22:41	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		06/12/18 22:41	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/12/18 22:41	2037-26-5	
Dibromofluoromethane (S)	105	%	80-120		1		06/12/18 22:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO41-PZM001 **Lab ID: 30254879008** Collected: 06/04/18 14:30 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/13/18 02:08	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/13/18 02:08	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/13/18 02:08	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/13/18 02:08	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/13/18 02:08	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/13/18 02:08	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/13/18 02:08	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/13/18 02:08	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/13/18 02:08	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/13/18 02:08	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/13/18 02:08	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/13/18 02:08	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/13/18 02:08	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/13/18 02:08	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/13/18 02:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/13/18 02:08	108-10-1	
Acetone	**5.0J**	ug/L	10.0	2.8	1		06/13/18 02:08	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/13/18 02:08	107-13-1	
Benzene	**5.2**	ug/L	1.0	0.24	1		06/13/18 02:08	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/13/18 02:08	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/13/18 02:08	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/13/18 02:08	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/13/18 02:08	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/13/18 02:08	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/13/18 02:08	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/13/18 02:08	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/13/18 02:08	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/13/18 02:08	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/13/18 02:08	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/13/18 02:08	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/13/18 02:08	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/13/18 02:08	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/13/18 02:08	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/13/18 02:08	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/13/18 02:08	75-09-2	
Naphthalene	**7.3**	ug/L	2.0	0.82	1		06/13/18 02:08	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/13/18 02:08	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/13/18 02:08	127-18-4	
Toluene	**0.62J**	ug/L	1.0	0.30	1		06/13/18 02:08	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/13/18 02:08	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/13/18 02:08	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/13/18 02:08	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/13/18 02:08	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/13/18 02:08	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/13/18 02:08	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/13/18 02:08	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO41-PZM001 **Lab ID: 30254879008** Collected: 06/04/18 14:30 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/13/18 02:08	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/13/18 02:08	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/13/18 02:08	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		1		06/13/18 02:08	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		06/13/18 02:08	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		06/13/18 02:08	2037-26-5	
Dibromofluoromethane (S)	105	%	80-120		1		06/13/18 02:08	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO41-PZM036 **Lab ID: 30254879009** Collected: 06/04/18 15:05 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 02:33	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 02:33	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 02:33	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 02:33	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/13/18 02:33	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 02:33	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/13/18 02:33	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/13/18 02:33	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 02:33	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/13/18 02:33	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 02:33	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 02:33	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/13/18 02:33	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/13/18 02:33	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/13/18 02:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/13/18 02:33	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		06/13/18 02:33	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/13/18 02:33	107-13-1	
Benzene	**108000**	ug/L	500	120	500		06/13/18 01:29	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 02:33	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 02:33	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 02:33	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/13/18 02:33	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 02:33	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/13/18 02:33	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/13/18 02:33	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/13/18 02:33	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/13/18 02:33	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/13/18 02:33	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 02:33	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 02:33	74-95-3	
Ethylbenzene	**548**	ug/L	5.0	1.6	5		06/13/18 02:33	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/13/18 02:33	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 02:33	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/13/18 02:33	75-09-2	
Naphthalene	**303**	ug/L	10.0	4.1	5		06/13/18 02:33	91-20-3	
Styrene	**275**	ug/L	5.0	0.85	5		06/13/18 02:33	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 02:33	127-18-4	
Toluene	**37000**	ug/L	500	150	500		06/13/18 01:29	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/13/18 02:33	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/13/18 02:33	75-69-4	CH,L1
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/13/18 02:33	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/13/18 02:33	75-01-4	
Xylene (Total)	**10300**	ug/L	1500	390	500		06/13/18 01:29	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/13/18 02:33	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/13/18 02:33	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254879

Sample: CO41-PZM036 **Lab ID: 30254879009** Collected: 06/04/18 15:05 Received: 06/04/18 22:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/13/18 02:33	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/13/18 02:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/13/18 02:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		5		06/13/18 02:33	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		5		06/13/18 02:33	17060-07-0	
Toluene-d8 (S)	107	%	80-120		5		06/13/18 02:33	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		5		06/13/18 02:33	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254879

QC Batch: 301914 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30254879001, 30254879002, 30254879003, 30254879004, 30254879005, 30254879006, 30254879007, 30254879008, 30254879009

METHOD BLANK: 1477392 Matrix: Water
Associated Lab Samples: 30254879001, 30254879002, 30254879003, 30254879004, 30254879005, 30254879006, 30254879007, 30254879008, 30254879009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/12/18 18:23	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/12/18 18:23	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/12/18 18:23	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/12/18 18:23	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/12/18 18:23	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/12/18 18:23	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/12/18 18:23	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/12/18 18:23	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/12/18 18:23	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/12/18 18:23	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/12/18 18:23	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/12/18 18:23	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/12/18 18:23	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/12/18 18:23	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/12/18 18:23	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/12/18 18:23	
Acetone	ug/L	4.2J	10.0	2.8	06/12/18 18:23	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/12/18 18:23	
Benzene	ug/L	1.0 U	1.0	0.24	06/12/18 18:23	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/12/18 18:23	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/12/18 18:23	
Bromoform	ug/L	1.0 U	1.0	0.32	06/12/18 18:23	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/12/18 18:23	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/12/18 18:23	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/12/18 18:23	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/12/18 18:23	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/12/18 18:23	
Chloroform	ug/L	1.0 U	1.0	0.30	06/12/18 18:23	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/12/18 18:23	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/12/18 18:23	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/12/18 18:23	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/12/18 18:23	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/12/18 18:23	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/12/18 18:23	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/12/18 18:23	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/12/18 18:23	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/12/18 18:23	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/12/18 18:23	
Styrene	ug/L	1.0 U	1.0	0.17	06/12/18 18:23	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/12/18 18:23	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254879

METHOD BLANK: 1477392 Matrix: Water

Associated Lab Samples: 30254879001, 30254879002, 30254879003, 30254879004, 30254879005, 30254879006, 30254879007, 30254879008, 30254879009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	06/12/18 18:23	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/12/18 18:23	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/12/18 18:23	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/12/18 18:23	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/12/18 18:23	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/12/18 18:23	CH
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/12/18 18:23	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/12/18 18:23	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/12/18 18:23	
1,2-Dichloroethane-d4 (S)	%	106	80-120		06/12/18 18:23	
4-Bromofluorobenzene (S)	%	96	79-129		06/12/18 18:23	
Dibromofluoromethane (S)	%	110	80-120		06/12/18 18:23	
Toluene-d8 (S)	%	101	80-120		06/12/18 18:23	

LABORATORY CONTROL SAMPLE: 1477393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.8	89	70-130	
1,1,1-Trichloroethane	ug/L	20	17.7	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.0	90	65-127	
1,1,2-Trichloroethane	ug/L	20	17.6	88	70-130	
1,1-Dichloroethane	ug/L	20	16.9	84	70-130	
1,1-Dichloroethene	ug/L	20	17.6	88	70-130	
1,2,3-Trichloropropane	ug/L	20	19.0	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.3	81	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	20	17.3	86	70-130	
1,2-Dichloroethane	ug/L	20	16.5	82	70-130	
1,2-Dichloropropane	ug/L	20	17.3	87	70-130	
1,4-Dichlorobenzene	ug/L	20	16.7	83	70-130	
2-Butanone (MEK)	ug/L	20	15.3	77	72-170	
2-Hexanone	ug/L	20	15.3	76	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.7	88	66-150	
Acetone	ug/L	20	20.2	101	30-179	
Acrylonitrile	ug/L	20	16.2	81	48-172	
Benzene	ug/L	20	17.4	87	70-130	
Bromochloromethane	ug/L	20	19.6	98	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	16.9	85	70-130	
Bromomethane	ug/L	20	25.8	129	47-174	
Carbon disulfide	ug/L	20	17.6	88	43-133	
Carbon tetrachloride	ug/L	20	18.9	94	56-143	
Chlorobenzene	ug/L	20	16.8	84	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254879

LABORATORY CONTROL SAMPLE: 1477393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	30.9	155	67-139	L1
Chloroform	ug/L	20	16.8	84	70-130	
Chloromethane	ug/L	20	20.5	103	57-138	
cis-1,2-Dichloroethene	ug/L	20	16.8	84	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.5	88	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Dibromomethane	ug/L	20	18.1	90	70-130	
Ethylbenzene	ug/L	20	16.8	84	70-130	
Iodomethane	ug/L	20	18.2J	91	10-175	
Methyl-tert-butyl ether	ug/L	20	20.4	102	70-130	
Methylene Chloride	ug/L	20	14.9	75	55-144	
Naphthalene	ug/L	20	16.0	80	70-130	
Styrene	ug/L	20	17.2	86	70-130	
Tetrachloroethene	ug/L	20	15.9	80	70-130	
Toluene	ug/L	20	16.2	81	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	83	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.6	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	8.2	41	27-116	
Trichloroethene	ug/L	20	16.8	84	70-130	
Trichlorofluoromethane	ug/L	20	38.6	193	60-148	CH,L1
Vinyl acetate	ug/L	20	14.3	71	30-181	
Vinyl chloride	ug/L	20	24.9	124	70-130	
Xylene (Total)	ug/L	60	49.5	82	70-130	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			94	79-129	
Dibromofluoromethane (S)	%			106	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1477394 1477395

Parameter	Units	30254879005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.3	16.7	82	84	51-124	2	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.9	16.5	85	82	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.8	17.5	89	88	57-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.7	17.4	84	87	68-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.9	16.1	80	80	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.3	17.1	87	86	63-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.9	18.0	90	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.8	16.7	74	84	53-120	12	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.9	18.6	90	93	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.4	16.3	82	82	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.7	15.8	79	79	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.9	16.3	80	81	63-118	2	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254879

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1477394 1477395

Parameter	Units	30254879005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	16.1	16.2	80	81	72-118	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.9	16.8	80	84	72-168	5	30	
2-Hexanone	ug/L	10.0 U	20	20	15.1	15.1	76	76	66-143	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	15.7	16.0	78	80	67-145	2	30	
Acetone	ug/L	3.2J	20	20	22.1	23.1	95	99	15-175	4	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.4	16.3	82	82	36-165	1	30	
Benzene	ug/L	3.8	20	20	23.7	21.0	99	86	67-121	12	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.1	18.0	96	90	62-128	6	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.7	16.6	84	83	66-127	1	30	
Bromoform	ug/L	1.0 U	20	20	15.4	15.4	77	77	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	10.9	12.3	55	62	10-156	12	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.3	16.0	82	80	45-131	2	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.3	17.2	87	86	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	16.6	16.6	83	83	69-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	26.7	36.3	134	181	60-156	30	30	MH
Chloroform	ug/L	1.0 U	20	20	16.0	15.6	80	78	69-115	3	30	
Chloromethane	ug/L	1.0 U	20	20	19.7	19.3	98	96	52-145	2	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.0	15.7	80	79	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.1	15.2	76	76	57-125	0	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.0	17.1	85	85	64-131	1	30	
Dibromomethane	ug/L	1.0 U	20	20	16.2	15.9	81	80	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	15.9	16.5	79	82	70-127	4	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	12.3J	37	61	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	18.6	18.4	93	92	79-135	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.6	14.0	68	70	54-133	2	30	
Naphthalene	ug/L	2.0 U	20	20	18.0	17.6	90	88	62-131	2	30	
Styrene	ug/L	1.0 U	20	20	15.8	16.0	79	80	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	15.4	15.2	77	76	77-125	1	30	ML
Toluene	ug/L	0.39J	20	20	18.8	16.7	92	81	77-125	12	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.0	16.0	80	80	70-119	0	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.3	14.9	77	75	52-125	3	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	5.6	6.1	28	31	13-100	9	30	
Trichloroethene	ug/L	1.0 U	20	20	15.1	15.5	75	77	74-128	3	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	33.3	35.5	167	178	54-164	6	30	CH,MH
Vinyl acetate	ug/L	10.0 U	20	20	10.6	11.6	53	58	15-173	9	30	
Vinyl chloride	ug/L	1.0 U	20	20	22.5	23.8	113	119	60-131	6	30	
Xylene (Total)	ug/L	3.0 U	60	60	50.8	48.0	85	80	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%						101	100	80-120			
4-Bromofluorobenzene (S)	%						96	97	79-129			
Dibromofluoromethane (S)	%						109	105	80-120			
Toluene-d8 (S)	%						100	100	80-120			

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QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30254879

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30254879

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30254879001	**Trip Blank**	EPA 8260B	301914		
30254879002	**CO36-PZM008**	EPA 8260B	301914		
30254879003	**CO36-PZM043**	EPA 8260B	301914		
30254879004	**CO38-PZM006**	EPA 8260B	301914		
30254879005	**CO38-PZM043**	EPA 8260B	301914		
30254879006	**CO39-PZM042**	EPA 8260B	301914		
30254879007	**CO39-PZM007**	EPA 8260B	301914		
30254879008	**CO41-PZM001**	EPA 8260B	301914		
30254879009	**CO41-PZM036**	EPA 8260B	301914		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384M-1-

Section C Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO# : 30254879

30254879

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	VOC	Residual Chlo	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/4/18	—		2				2							X		001
2	C036-PZM008	WT	G				950		3				3						X			002
3	C036-PZM043	WT	G				1015		3				3						X			003
4	C038-PZM006	WT	G				1110		3				3						X			004
5	C038-PZM043	WT	G				1145		3				3						X			005
6	C039-PZM042	WT	G				1315		3				3						X			006
7	C039-PZM007	WT	G				1340		3				3						X			007
8	C041-PZM001	WT	G				1430		3				3						X			008
9	C041-PZM036	WT	G				1505		3				3						X			009
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No pkgs	[signature]	6/4/18	1612	A. Benningshove/PACE	6/4/18	1620				
	A. Benningshove/PACE	6/4/18	1900	[signature]	6-4-18	1915				
	[signature]	6-4-18	2230	[signature]/Pace	6-4-18	2230	3.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/4/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: EnviroAnalytics Project # 30254879

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label AM
LIMS Login ANV

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 7 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 4.0 °C Correction Factor: -0.1 °C Final Temp: 3.9 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: HM 6-5-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WW	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA), coliform, TOC, O&G, Phenolics			X X	16. Initial when completed AM Date/time of preservation Lot # of added preservative
Headspace in VOA Vials (>6mm):	X	X		17.
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 15, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30254995

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30254995

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30254995001	**Trip Blank**	Water	06/05/18 00:01	06/06/18 00:30
30254995002	**C037-PZM038**	Water	06/05/18 09:05	06/06/18 00:30
30254995003	**C042-PZM004**	Water	06/05/18 09:50	06/06/18 00:30
30254995004	**C024-PZM007**	Water	06/05/18 11:15	06/06/18 00:30
30254995005	**C023-PZM008**	Water	06/05/18 11:50	06/06/18 00:30
30254995006	**C059-PZM002**	Water	06/05/18 12:15	06/06/18 00:30
30254995007	**C056-PZM001**	Water	06/05/18 12:50	06/06/18 00:30
30254995008	**C055-PZM000**	Water	06/05/18 13:25	06/06/18 00:30
30254995009	**C026-PZM007**	Water	06/05/18 14:20	06/06/18 00:30
30254995010	**C058-PZM001**	Water	06/05/18 14:55	06/06/18 00:30
30254995011	**C057-PZP002**	Water	06/05/18 15:45	06/06/18 00:30
30254995012	**C060-PZP001**	Water	06/05/18 16:25	06/06/18 00:30

Sample 007 changed to CO56-PZP001,
Sample 006 changed top CO59-PZP002

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30254995

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30254995001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30254995002	**C037-PZM038**	EPA 8260B	LEL	53	PASI-PA
30254995003	**C042-PZM004**	EPA 8260B	LEL	53	PASI-PA
30254995004	**C024-PZM007**	EPA 8260B	LEL, MAK	53	PASI-PA
30254995005	**C023-PZM008**	EPA 8260B	LEL	53	PASI-PA
30254995006	**C059-PZM002**	EPA 8260B	LEL	53	PASI-PA
30254995007	**C056-PZM001**	EPA 8260B	LEL	53	PASI-PA
30254995008	**C055-PZM000**	EPA 8260B	LEL	53	PASI-PA
30254995009	**C026-PZM007**	EPA 8260B	LEL	53	PASI-PA
30254995010	**C058-PZM001**	EPA 8260B	LEL	53	PASI-PA
30254995011	**C057-PZP002**	EPA 8260B	MAK	53	PASI-PA
30254995012	**C060-PZP001**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: Trip Blank **Lab ID: 30254995001** Collected: 06/05/18 00:01 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/13/18 19:10	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/13/18 19:10	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/13/18 19:10	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/13/18 19:10	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/13/18 19:10	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/13/18 19:10	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/13/18 19:10	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/13/18 19:10	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/13/18 19:10	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/13/18 19:10	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/13/18 19:10	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/13/18 19:10	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/13/18 19:10	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/13/18 19:10	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/13/18 19:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/13/18 19:10	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		06/13/18 19:10	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/13/18 19:10	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/13/18 19:10	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/13/18 19:10	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/13/18 19:10	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/13/18 19:10	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/13/18 19:10	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/13/18 19:10	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/13/18 19:10	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/13/18 19:10	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/13/18 19:10	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/13/18 19:10	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/13/18 19:10	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/13/18 19:10	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/13/18 19:10	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/13/18 19:10	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/13/18 19:10	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/13/18 19:10	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/13/18 19:10	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/13/18 19:10	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/13/18 19:10	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/13/18 19:10	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/13/18 19:10	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/13/18 19:10	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/13/18 19:10	75-69-4	CH,L1
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/13/18 19:10	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/13/18 19:10	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/13/18 19:10	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/13/18 19:10	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/13/18 19:10	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: Trip Blank **Lab ID: 30254995001** Collected: 06/05/18 00:01 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/13/18 19:10	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/13/18 19:10	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/13/18 19:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		1		06/13/18 19:10	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120		1		06/13/18 19:10	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/13/18 19:10	2037-26-5	
Dibromofluoromethane (S)	112	%	80-120		1		06/13/18 19:10	1868-53-7	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C037-PZM038 **Lab ID: 30254995002** Collected: 06/05/18 09:05 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 23:07	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 23:07	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 23:07	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 23:07	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 23:07	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 23:07	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 23:07	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 23:07	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 23:07	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 23:07	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 23:07	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 23:07	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 23:07	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 23:07	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 23:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 23:07	108-10-1	
Acetone	**7.7J**	ug/L	10.0	2.8	1		06/12/18 23:07	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 23:07	107-13-1	
Benzene	**10800**	ug/L	100	24.0	100		06/12/18 21:37	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 23:07	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 23:07	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 23:07	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 23:07	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 23:07	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 23:07	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 23:07	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 23:07	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 23:07	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 23:07	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 23:07	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 23:07	74-95-3	
Ethylbenzene	**263**	ug/L	1.0	0.31	1		06/12/18 23:07	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 23:07	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 23:07	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 23:07	75-09-2	
Naphthalene	**1620**	ug/L	200	82.0	100		06/12/18 21:37	91-20-3	
Styrene	**385**	ug/L	1.0	0.17	1		06/12/18 23:07	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 23:07	127-18-4	
Toluene	**6980**	ug/L	100	30.0	100		06/12/18 21:37	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 23:07	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 23:07	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 23:07	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 23:07	75-01-4	
Xylene (Total)	**1920**	ug/L	300	78.0	100		06/12/18 21:37	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 23:07	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 23:07	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C037-PZM038 **Lab ID: 30254995002** Collected: 06/05/18 09:05 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 23:07	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 23:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 23:07	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		1		06/12/18 23:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120		1		06/12/18 23:07	17060-07-0	
Toluene-d8 (S)	106	%	80-120		1		06/12/18 23:07	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		1		06/12/18 23:07	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C042-PZM004 **Lab ID: 30254995003** Collected: 06/05/18 09:50 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 20:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 20:32	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:32	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 20:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 20:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 20:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 20:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 20:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 20:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 20:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 20:32	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 20:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 20:32	108-10-1	
Acetone	**7.5J**	ug/L	10.0	2.8	1		06/12/18 20:32	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 20:32	107-13-1	
Benzene	**51.5**	ug/L	1.0	0.24	1		06/12/18 20:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 20:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:32	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 20:32	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 20:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 20:32	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 20:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 20:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 20:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 20:32	74-95-3	
Ethylbenzene	**6.8**	ug/L	1.0	0.31	1		06/12/18 20:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 20:32	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 20:32	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 20:32	75-09-2	
Naphthalene	**25.0**	ug/L	2.0	0.82	1		06/12/18 20:32	91-20-3	
Styrene	**4.8**	ug/L	1.0	0.17	1		06/12/18 20:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:32	127-18-4	
Toluene	**107**	ug/L	1.0	0.30	1		06/12/18 20:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 20:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 20:32	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 20:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 20:32	75-01-4	
Xylene (Total)	**72.3**	ug/L	3.0	0.78	1		06/12/18 20:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 20:32	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 20:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C042-PZM004 **Lab ID: 30254995003** Collected: 06/05/18 09:50 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 20:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 20:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 20:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	79-129		1		06/12/18 20:32	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		06/12/18 20:32	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		06/12/18 20:32	2037-26-5	
Dibromofluoromethane (S)	105	%	80-120		1		06/12/18 20:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C024-PZM007 **Lab ID: 30254995004** Collected: 06/05/18 11:15 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 20:58	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 20:58	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:58	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:58	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 20:58	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 20:58	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 20:58	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 20:58	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:58	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 20:58	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 20:58	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 20:58	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:58	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 20:58	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 20:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 20:58	108-10-1	
Acetone	**14.4**	ug/L	10.0	2.8	1		06/12/18 20:58	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 20:58	107-13-1	
Benzene	**2.6**	ug/L	1.0	0.24	1		06/12/18 20:58	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:58	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 20:58	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:58	75-25-2	
Bromomethane	**1.3**	ug/L	1.0	0.49	1		06/12/18 20:58	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:58	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:58	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 20:58	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 20:58	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 20:58	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 20:58	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 20:58	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 20:58	74-95-3	
Ethylbenzene	**6.8**	ug/L	1.0	0.31	1		06/12/18 20:58	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 20:58	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 20:58	1634-04-4	
Methylene Chloride	**1.7**	ug/L	1.0	0.77	1		06/12/18 20:58	75-09-2	
Naphthalene	**2090**	ug/L	20.0	8.2	10		06/14/18 10:15	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/12/18 20:58	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:58	127-18-4	
Toluene	**2.9**	ug/L	1.0	0.30	1		06/12/18 20:58	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 20:58	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 20:58	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 20:58	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 20:58	75-01-4	
Xylene (Total)	**9.3**	ug/L	3.0	0.78	1		06/12/18 20:58	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 20:58	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 20:58	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C024-PZM007 **Lab ID: 30254995004** Collected: 06/05/18 11:15 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 20:58	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 20:58	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 20:58	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		06/12/18 20:58	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	80-120		1		06/12/18 20:58	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/12/18 20:58	2037-26-5	
Dibromofluoromethane (S)	111	%	80-120		1		06/12/18 20:58	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C023-PZM008 **Lab ID: 30254995005** Collected: 06/05/18 11:50 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/12/18 23:33	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:33	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/12/18 23:33	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:33	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/12/18 23:33	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:33	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/12/18 23:33	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/12/18 23:33	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:33	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/12/18 23:33	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/12/18 23:33	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:33	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:33	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/12/18 23:33	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/12/18 23:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/12/18 23:33	108-10-1	
Acetone	**37.2J**	ug/L	50.0	14.2	5		06/12/18 23:33	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/12/18 23:33	107-13-1	
Benzene	**403**	ug/L	5.0	1.2	5		06/12/18 23:33	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/12/18 23:33	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:33	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:33	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/12/18 23:33	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:33	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/12/18 23:33	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/12/18 23:33	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/12/18 23:33	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/12/18 23:33	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/12/18 23:33	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:33	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/12/18 23:33	74-95-3	
Ethylbenzene	**16.8**	ug/L	5.0	1.6	5		06/12/18 23:33	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/12/18 23:33	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/12/18 23:33	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/12/18 23:33	75-09-2	
Naphthalene	**2630**	ug/L	200	82.0	100		06/12/18 22:03	91-20-3	
Styrene	**8.4**	ug/L	5.0	0.85	5		06/12/18 23:33	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:33	127-18-4	
Toluene	**26.8**	ug/L	5.0	1.5	5		06/12/18 23:33	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/12/18 23:33	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:33	75-69-4	CH,L1
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/12/18 23:33	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:33	75-01-4	
Xylene (Total)	**265**	ug/L	15.0	3.9	5		06/12/18 23:33	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/12/18 23:33	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/12/18 23:33	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C023-PZM008 **Lab ID: 30254995005** Collected: 06/05/18 11:50 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/12/18 23:33	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/12/18 23:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/12/18 23:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	79-129		5		06/12/18 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		5		06/12/18 23:33	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		06/12/18 23:33	2037-26-5	
Dibromofluoromethane (S)	106	%	80-120		5		06/12/18 23:33	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C059-PZM002 **Lab ID: 30254995006** Collected: 06/05/18 12:15 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 19:40	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 19:40	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 19:40	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 19:40	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 19:40	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 19:40	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 19:40	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 19:40	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 19:40	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 19:40	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 19:40	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 19:40	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 19:40	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 19:40	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 19:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 19:40	108-10-1	
Acetone	**8.6J**	ug/L	10.0	2.8	1		06/12/18 19:40	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 19:40	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/12/18 19:40	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 19:40	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 19:40	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 19:40	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 19:40	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 19:40	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 19:40	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 19:40	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 19:40	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 19:40	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 19:40	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 19:40	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 19:40	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 19:40	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 19:40	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 19:40	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 19:40	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/12/18 19:40	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/12/18 19:40	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 19:40	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 19:40	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 19:40	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 19:40	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 19:40	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 19:40	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/12/18 19:40	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 19:40	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 19:40	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C059-PZM002 **Lab ID: 30254995006** Collected: 06/05/18 12:15 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 19:40	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 19:40	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 19:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		1		06/12/18 19:40	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120		1		06/12/18 19:40	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		06/12/18 19:40	2037-26-5	
Dibromofluoromethane (S)	109	%	80-120		1		06/12/18 19:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C056-PZM001 **Lab ID: 30254995007** Collected: 06/05/18 12:50 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/12/18 23:59	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:59	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/12/18 23:59	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:59	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/12/18 23:59	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:59	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/12/18 23:59	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/12/18 23:59	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:59	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/12/18 23:59	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/12/18 23:59	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:59	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/12/18 23:59	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/12/18 23:59	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/12/18 23:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/12/18 23:59	108-10-1	
Acetone	**29.2J**	ug/L	50.0	14.2	5		06/12/18 23:59	67-64-1	B
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/12/18 23:59	107-13-1	
Benzene	**319**	ug/L	5.0	1.2	5		06/12/18 23:59	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/12/18 23:59	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:59	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:59	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/12/18 23:59	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:59	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/12/18 23:59	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/12/18 23:59	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/12/18 23:59	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/12/18 23:59	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/12/18 23:59	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:59	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/12/18 23:59	74-95-3	
Ethylbenzene	**12.8**	ug/L	5.0	1.6	5		06/12/18 23:59	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/12/18 23:59	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/12/18 23:59	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/12/18 23:59	75-09-2	
Naphthalene	**2800**	ug/L	200	82.0	100		06/12/18 22:29	91-20-3	
Styrene	**46.0**	ug/L	5.0	0.85	5		06/12/18 23:59	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:59	127-18-4	
Toluene	**177**	ug/L	5.0	1.5	5		06/12/18 23:59	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/12/18 23:59	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/12/18 23:59	75-69-4	CH,L1
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/12/18 23:59	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/12/18 23:59	75-01-4	
Xylene (Total)	**266**	ug/L	15.0	3.9	5		06/12/18 23:59	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/12/18 23:59	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/12/18 23:59	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C056-PZM001 **Lab ID: 30254995007** Collected: 06/05/18 12:50 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/12/18 23:59	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/12/18 23:59	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/12/18 23:59	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		5		06/12/18 23:59	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		5		06/12/18 23:59	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		06/12/18 23:59	2037-26-5	
Dibromofluoromethane (S)	108	%	80-120		5		06/12/18 23:59	1868-53-7	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C055-PZM000 **Lab ID: 30254995008** Collected: 06/05/18 13:25 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 20:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 20:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 20:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 20:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 20:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 20:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 20:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 20:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 20:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 20:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 20:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 20:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 20:06	108-10-1	
Acetone	**6.3J**	ug/L	10.0	2.8	1		06/12/18 20:06	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 20:06	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/12/18 20:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 20:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 20:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 20:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 20:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 20:06	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 20:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 20:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 20:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 20:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 20:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 20:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 20:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 20:06	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/12/18 20:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/12/18 20:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 20:06	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 20:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 20:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 20:06	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 20:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 20:06	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/12/18 20:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 20:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 20:06	10061-01-5	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C055-PZM000 **Lab ID: 30254995008** Collected: 06/05/18 13:25 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 20:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 20:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 20:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	79-129		1		06/12/18 20:06	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		06/12/18 20:06	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		06/12/18 20:06	2037-26-5	
Dibromofluoromethane (S)	108	%	80-120		1		06/12/18 20:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C026-PZM007 **Lab ID: 30254995009** Collected: 06/05/18 14:20 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 21:24	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 21:24	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 21:24	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 21:24	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 21:24	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 21:24	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 21:24	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 21:24	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 21:24	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 21:24	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 21:24	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 21:24	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 21:24	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 21:24	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 21:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 21:24	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		06/12/18 21:24	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 21:24	107-13-1	
Benzene	**281**	ug/L	1.0	0.24	1		06/12/18 21:24	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 21:24	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 21:24	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 21:24	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 21:24	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 21:24	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 21:24	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 21:24	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 21:24	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 21:24	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 21:24	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 21:24	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 21:24	74-95-3	
Ethylbenzene	**8.6**	ug/L	1.0	0.31	1		06/12/18 21:24	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 21:24	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 21:24	1634-04-4	
Methylene Chloride	**1.6**	ug/L	1.0	0.77	1		06/12/18 21:24	75-09-2	
Naphthalene	**2020**	ug/L	40.0	16.4	20		06/12/18 19:54	91-20-3	
Styrene	**56.2**	ug/L	1.0	0.17	1		06/12/18 21:24	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 21:24	127-18-4	
Toluene	**153**	ug/L	1.0	0.30	1		06/12/18 21:24	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 21:24	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 21:24	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 21:24	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 21:24	75-01-4	
Xylene (Total)	**205**	ug/L	3.0	0.78	1		06/12/18 21:24	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 21:24	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 21:24	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C026-PZM007 **Lab ID: 30254995009** Collected: 06/05/18 14:20 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 21:24	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 21:24	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 21:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		1		06/12/18 21:24	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		06/12/18 21:24	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/12/18 21:24	2037-26-5	
Dibromofluoromethane (S)	106	%	80-120		1		06/12/18 21:24	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C058-PZM001 **Lab ID: 30254995010** Collected: 06/05/18 14:55 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 21:50	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 21:50	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 21:50	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 21:50	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 21:50	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 21:50	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 21:50	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 21:50	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 21:50	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 21:50	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 21:50	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 21:50	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 21:50	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 21:50	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 21:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 21:50	108-10-1	
Acetone	**8.3J**	ug/L	10.0	2.8	1		06/12/18 21:50	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 21:50	107-13-1	
Benzene	**185**	ug/L	1.0	0.24	1		06/12/18 21:50	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 21:50	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 21:50	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 21:50	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 21:50	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 21:50	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 21:50	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 21:50	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 21:50	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 21:50	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 21:50	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 21:50	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 21:50	74-95-3	
Ethylbenzene	**9.1**	ug/L	1.0	0.31	1		06/12/18 21:50	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 21:50	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 21:50	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 21:50	75-09-2	
Naphthalene	**1540**	ug/L	40.0	16.4	20		06/12/18 20:20	91-20-3	
Styrene	**28.6**	ug/L	1.0	0.17	1		06/12/18 21:50	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 21:50	127-18-4	
Toluene	**59.9**	ug/L	1.0	0.30	1		06/12/18 21:50	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 21:50	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 21:50	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 21:50	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 21:50	75-01-4	
Xylene (Total)	**155**	ug/L	3.0	0.78	1		06/12/18 21:50	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 21:50	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 21:50	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C058-PZM001 **Lab ID: 30254995010** Collected: 06/05/18 14:55 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 21:50	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 21:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 21:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	79-129		1		06/12/18 21:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		06/12/18 21:50	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/12/18 21:50	2037-26-5	
Dibromofluoromethane (S)	104	%	80-120		1		06/12/18 21:50	1868-53-7	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C057-PZP002 **Lab ID: 30254995011** Collected: 06/05/18 15:45 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/14/18 00:38	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/14/18 00:38	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/14/18 00:38	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/14/18 00:38	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/14/18 00:38	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/14/18 00:38	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/14/18 00:38	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/14/18 00:38	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/14/18 00:38	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/14/18 00:38	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/14/18 00:38	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/14/18 00:38	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/14/18 00:38	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/14/18 00:38	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/14/18 00:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/14/18 00:38	108-10-1	
Acetone	**9.1J**	ug/L	10.0	2.8	1		06/14/18 00:38	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/14/18 00:38	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/14/18 00:38	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/14/18 00:38	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/14/18 00:38	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/14/18 00:38	75-25-2	
Bromomethane	**2.4**	ug/L	1.0	0.49	1		06/14/18 00:38	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/14/18 00:38	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/14/18 00:38	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/14/18 00:38	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/14/18 00:38	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/14/18 00:38	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/14/18 00:38	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/14/18 00:38	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/14/18 00:38	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/14/18 00:38	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/14/18 00:38	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/14/18 00:38	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/14/18 00:38	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/14/18 00:38	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/14/18 00:38	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/14/18 00:38	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/14/18 00:38	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/14/18 00:38	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/14/18 00:38	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/14/18 00:38	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/14/18 00:38	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/14/18 00:38	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/14/18 00:38	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/14/18 00:38	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C057-PZP002 **Lab ID: 30254995011** Collected: 06/05/18 15:45 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/14/18 00:38	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/14/18 00:38	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/14/18 00:38	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		1		06/14/18 00:38	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	80-120		1		06/14/18 00:38	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/14/18 00:38	2037-26-5	
Dibromofluoromethane (S)	115	%	80-120		1		06/14/18 00:38	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C060-PZP001 **Lab ID: 30254995012** Collected: 06/05/18 16:25 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/12/18 22:16	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 22:16	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 22:16	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 22:16	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/12/18 22:16	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 22:16	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/12/18 22:16	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/12/18 22:16	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 22:16	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/12/18 22:16	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 22:16	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/12/18 22:16	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/12/18 22:16	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/12/18 22:16	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/12/18 22:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/12/18 22:16	108-10-1	
Acetone	**13.3**	ug/L	10.0	2.8	1		06/12/18 22:16	67-64-1	B
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/12/18 22:16	107-13-1	
Benzene	**400**	ug/L	20.0	4.8	20		06/12/18 20:46	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 22:16	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/12/18 22:16	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 22:16	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/12/18 22:16	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 22:16	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/12/18 22:16	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/12/18 22:16	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/12/18 22:16	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/12/18 22:16	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/12/18 22:16	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/12/18 22:16	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/12/18 22:16	74-95-3	
Ethylbenzene	**8.0**	ug/L	1.0	0.31	1		06/12/18 22:16	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/12/18 22:16	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/12/18 22:16	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/12/18 22:16	75-09-2	
Naphthalene	**1620**	ug/L	40.0	16.4	20		06/12/18 20:46	91-20-3	
Styrene	**63.6**	ug/L	1.0	0.17	1		06/12/18 22:16	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/12/18 22:16	127-18-4	
Toluene	**156**	ug/L	1.0	0.30	1		06/12/18 22:16	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/12/18 22:16	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/12/18 22:16	75-69-4	CH,L1
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/12/18 22:16	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/12/18 22:16	75-01-4	
Xylene (Total)	**183**	ug/L	3.0	0.78	1		06/12/18 22:16	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/12/18 22:16	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/12/18 22:16	10061-01-5	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30254995

Sample: C060-PZP001 **Lab ID: 30254995012** Collected: 06/05/18 16:25 Received: 06/06/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/12/18 22:16	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/12/18 22:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/12/18 22:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	79-129		1		06/12/18 22:16	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		06/12/18 22:16	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		06/12/18 22:16	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		06/12/18 22:16	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

QC Batch: 301914 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30254995002, 30254995003, 30254995004, 30254995005, 30254995006, 30254995007, 30254995008, 30254995009, 30254995010, 30254995012

METHOD BLANK: 1477392 Matrix: Water
Associated Lab Samples: 30254995002, 30254995003, 30254995004, 30254995005, 30254995006, 30254995007, 30254995008, 30254995009, 30254995010, 30254995012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/12/18 18:23	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/12/18 18:23	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/12/18 18:23	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/12/18 18:23	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/12/18 18:23	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/12/18 18:23	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/12/18 18:23	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/12/18 18:23	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/12/18 18:23	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/12/18 18:23	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/12/18 18:23	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/12/18 18:23	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/12/18 18:23	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/12/18 18:23	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/12/18 18:23	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/12/18 18:23	
Acetone	ug/L	4.2J	10.0	2.8	06/12/18 18:23	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/12/18 18:23	
Benzene	ug/L	1.0 U	1.0	0.24	06/12/18 18:23	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/12/18 18:23	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/12/18 18:23	
Bromoform	ug/L	1.0 U	1.0	0.32	06/12/18 18:23	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/12/18 18:23	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/12/18 18:23	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/12/18 18:23	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/12/18 18:23	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/12/18 18:23	
Chloroform	ug/L	1.0 U	1.0	0.30	06/12/18 18:23	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/12/18 18:23	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/12/18 18:23	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/12/18 18:23	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/12/18 18:23	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/12/18 18:23	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/12/18 18:23	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/12/18 18:23	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/12/18 18:23	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/12/18 18:23	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/12/18 18:23	
Styrene	ug/L	1.0 U	1.0	0.17	06/12/18 18:23	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/12/18 18:23	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

METHOD BLANK: 1477392 Matrix: Water

Associated Lab Samples: 30254995002, 30254995003, 30254995004, 30254995005, 30254995006, 30254995007, 30254995008, 30254995009, 30254995010, 30254995012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	06/12/18 18:23	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/12/18 18:23	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/12/18 18:23	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/12/18 18:23	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/12/18 18:23	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/12/18 18:23	CH
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/12/18 18:23	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/12/18 18:23	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/12/18 18:23	
1,2-Dichloroethane-d4 (S)	%	106	80-120		06/12/18 18:23	
4-Bromofluorobenzene (S)	%	96	79-129		06/12/18 18:23	
Dibromofluoromethane (S)	%	110	80-120		06/12/18 18:23	
Toluene-d8 (S)	%	101	80-120		06/12/18 18:23	

LABORATORY CONTROL SAMPLE: 1477393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.8	89	70-130	
1,1,1-Trichloroethane	ug/L	20	17.7	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.0	90	65-127	
1,1,2-Trichloroethane	ug/L	20	17.6	88	70-130	
1,1-Dichloroethane	ug/L	20	16.9	84	70-130	
1,1-Dichloroethene	ug/L	20	17.6	88	70-130	
1,2,3-Trichloropropane	ug/L	20	19.0	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.3	81	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	98	70-130	
1,2-Dichlorobenzene	ug/L	20	17.3	86	70-130	
1,2-Dichloroethane	ug/L	20	16.5	82	70-130	
1,2-Dichloropropane	ug/L	20	17.3	87	70-130	
1,4-Dichlorobenzene	ug/L	20	16.7	83	70-130	
2-Butanone (MEK)	ug/L	20	15.3	77	72-170	
2-Hexanone	ug/L	20	15.3	76	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.7	88	66-150	
Acetone	ug/L	20	20.2	101	30-179	
Acrylonitrile	ug/L	20	16.2	81	48-172	
Benzene	ug/L	20	17.4	87	70-130	
Bromochloromethane	ug/L	20	19.6	98	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	16.9	85	70-130	
Bromomethane	ug/L	20	25.8	129	47-174	
Carbon disulfide	ug/L	20	17.6	88	43-133	
Carbon tetrachloride	ug/L	20	18.9	94	56-143	
Chlorobenzene	ug/L	20	16.8	84	70-130	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

LABORATORY CONTROL SAMPLE: 1477393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	30.9	155	67-139	L1
Chloroform	ug/L	20	16.8	84	70-130	
Chloromethane	ug/L	20	20.5	103	57-138	
cis-1,2-Dichloroethene	ug/L	20	16.8	84	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.5	88	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Dibromomethane	ug/L	20	18.1	90	70-130	
Ethylbenzene	ug/L	20	16.8	84	70-130	
Iodomethane	ug/L	20	18.2J	91	10-175	
Methyl-tert-butyl ether	ug/L	20	20.4	102	70-130	
Methylene Chloride	ug/L	20	14.9	75	55-144	
Naphthalene	ug/L	20	16.0	80	70-130	
Styrene	ug/L	20	17.2	86	70-130	
Tetrachloroethene	ug/L	20	15.9	80	70-130	
Toluene	ug/L	20	16.2	81	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	83	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.6	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	8.2	41	27-116	
Trichloroethene	ug/L	20	16.8	84	70-130	
Trichlorofluoromethane	ug/L	20	38.6	193	60-148	CH,L1
Vinyl acetate	ug/L	20	14.3	71	30-181	
Vinyl chloride	ug/L	20	24.9	124	70-130	
Xylene (Total)	ug/L	60	49.5	82	70-130	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			94	79-129	
Dibromofluoromethane (S)	%			106	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1477394 1477395

Parameter	Units	30254879005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.3	16.7	82	84	51-124	2	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.9	16.5	85	82	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.8	17.5	89	88	57-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.7	17.4	84	87	68-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.9	16.1	80	80	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.3	17.1	87	86	63-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.9	18.0	90	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.8	16.7	74	84	53-120	12	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.9	18.6	90	93	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.4	16.3	82	82	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.7	15.8	79	79	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.9	16.3	80	81	63-118	2	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1477394 1477395

Parameter	Units	30254879005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	16.1	16.2	80	81	72-118	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	15.9	16.8	80	84	72-168	5	30	
2-Hexanone	ug/L	10.0 U	20	20	15.1	15.1	76	76	66-143	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	15.7	16.0	78	80	67-145	2	30	
Acetone	ug/L	3.2J	20	20	22.1	23.1	95	99	15-175	4	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.4	16.3	82	82	36-165	1	30	
Benzene	ug/L	3.8	20	20	23.7	21.0	99	86	67-121	12	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.1	18.0	96	90	62-128	6	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.7	16.6	84	83	66-127	1	30	
Bromoform	ug/L	1.0 U	20	20	15.4	15.4	77	77	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	10.9	12.3	55	62	10-156	12	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.3	16.0	82	80	45-131	2	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.3	17.2	87	86	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	16.6	16.6	83	83	69-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	26.7	36.3	134	181	60-156	30	30	MH
Chloroform	ug/L	1.0 U	20	20	16.0	15.6	80	78	69-115	3	30	
Chloromethane	ug/L	1.0 U	20	20	19.7	19.3	98	96	52-145	2	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.0	15.7	80	79	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.1	15.2	76	76	57-125	0	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.0	17.1	85	85	64-131	1	30	
Dibromomethane	ug/L	1.0 U	20	20	16.2	15.9	81	80	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	15.9	16.5	79	82	70-127	4	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	12.3J	37	61	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	18.6	18.4	93	92	79-135	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	13.6	14.0	68	70	54-133	2	30	
Naphthalene	ug/L	2.0 U	20	20	18.0	17.6	90	88	62-131	2	30	
Styrene	ug/L	1.0 U	20	20	15.8	16.0	79	80	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	15.4	15.2	77	76	77-125	1	30	ML
Toluene	ug/L	0.39J	20	20	18.8	16.7	92	81	77-125	12	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.0	16.0	80	80	70-119	0	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.3	14.9	77	75	52-125	3	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	5.6	6.1	28	31	13-100	9	30	
Trichloroethene	ug/L	1.0 U	20	20	15.1	15.5	75	77	74-128	3	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	33.3	35.5	167	178	54-164	6	30	CH,MH
Vinyl acetate	ug/L	10.0 U	20	20	10.6	11.6	53	58	15-173	9	30	
Vinyl chloride	ug/L	1.0 U	20	20	22.5	23.8	113	119	60-131	6	30	
Xylene (Total)	ug/L	3.0 U	60	60	50.8	48.0	85	80	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%						101	100	80-120			
4-Bromofluorobenzene (S)	%						96	97	79-129			
Dibromofluoromethane (S)	%						109	105	80-120			
Toluene-d8 (S)	%						100	100	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

QC Batch: 302001 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30254995001, 30254995011

METHOD BLANK: 1477878 Matrix: Water
Associated Lab Samples: 30254995001, 30254995011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/13/18 16:47	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/13/18 16:47	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/13/18 16:47	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/13/18 16:47	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/13/18 16:47	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/13/18 16:47	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/13/18 16:47	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/13/18 16:47	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/13/18 16:47	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/13/18 16:47	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/13/18 16:47	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/13/18 16:47	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/13/18 16:47	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/13/18 16:47	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/13/18 16:47	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/13/18 16:47	
Acetone	ug/L	3.6J	10.0	2.8	06/13/18 16:47	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/13/18 16:47	
Benzene	ug/L	1.0 U	1.0	0.24	06/13/18 16:47	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/13/18 16:47	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/13/18 16:47	
Bromoform	ug/L	1.0 U	1.0	0.32	06/13/18 16:47	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/13/18 16:47	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/13/18 16:47	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/13/18 16:47	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/13/18 16:47	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/13/18 16:47	
Chloroform	ug/L	1.0 U	1.0	0.30	06/13/18 16:47	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/13/18 16:47	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/13/18 16:47	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/13/18 16:47	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/13/18 16:47	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/13/18 16:47	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/13/18 16:47	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/13/18 16:47	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/13/18 16:47	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/13/18 16:47	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/13/18 16:47	
Styrene	ug/L	1.0 U	1.0	0.17	06/13/18 16:47	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/13/18 16:47	
Toluene	ug/L	1.0 U	1.0	0.30	06/13/18 16:47	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

METHOD BLANK: 1477878 Matrix: Water
Associated Lab Samples: 30254995001, 30254995011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/13/18 16:47	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/13/18 16:47	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/13/18 16:47	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/13/18 16:47	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/13/18 16:47	CH
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/13/18 16:47	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/13/18 16:47	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/13/18 16:47	
1,2-Dichloroethane-d4 (S)	%	113	80-120		06/13/18 16:47	
4-Bromofluorobenzene (S)	%	97	79-129		06/13/18 16:47	
Dibromofluoromethane (S)	%	110	80-120		06/13/18 16:47	
Toluene-d8 (S)	%	97	80-120		06/13/18 16:47	

LABORATORY CONTROL SAMPLE: 1477879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.6	98	70-130	
1,1,1-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.0	105	65-127	
1,1,2-Trichloroethane	ug/L	20	20.1	101	70-130	
1,1-Dichloroethane	ug/L	20	19.3	97	70-130	
1,1-Dichloroethene	ug/L	20	20.5	103	70-130	
1,2,3-Trichloropropane	ug/L	20	22.3	112	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	20.7	103	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	21.4	107	70-130	
1,2-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	20	20.1	100	70-130	
1,2-Dichloropropane	ug/L	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	20	20.3	101	70-130	
2-Butanone (MEK)	ug/L	20	17.2	86	72-170	
2-Hexanone	ug/L	20	16.4	82	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.9	95	66-150	
Acetone	ug/L	20	24.0	120	30-179	
Acrylonitrile	ug/L	20	20.2	101	48-172	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	21.6	108	70-130	
Bromodichloromethane	ug/L	20	19.5	97	70-130	
Bromoform	ug/L	20	21.2	106	70-130	
Bromomethane	ug/L	20	25.5	127	47-174	
Carbon disulfide	ug/L	20	20.9	105	43-133	
Carbon tetrachloride	ug/L	20	21.5	108	56-143	
Chlorobenzene	ug/L	20	18.7	94	70-130	
Chloroethane	ug/L	20	24.5	122	67-139	
Chloroform	ug/L	20	19.2	96	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

LABORATORY CONTROL SAMPLE: 1477879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.4	92	57-138	
cis-1,2-Dichloroethene	ug/L	20	19.4	97	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
Dibromochloromethane	ug/L	20	21.3	107	70-130	
Dibromomethane	ug/L	20	19.4	97	70-130	
Ethylbenzene	ug/L	20	18.5	93	70-130	
Iodomethane	ug/L	20	20.2J	101	10-175	
Methyl-tert-butyl ether	ug/L	20	19.8	99	70-130	
Methylene Chloride	ug/L	20	18.0	90	55-144	
Naphthalene	ug/L	20	19.4	97	70-130	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	18.3	91	70-130	
Toluene	ug/L	20	17.7	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.5	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	17.3	87	27-116	
Trichloroethene	ug/L	20	18.7	93	70-130	
Trichlorofluoromethane	ug/L	20	32.2	161	60-148	CH,L1
Vinyl acetate	ug/L	20	15.9	80	30-181	
Vinyl chloride	ug/L	20	22.2	111	70-130	
Xylene (Total)	ug/L	60	57.0	95	70-130	
1,2-Dichloroethane-d4 (S)	%			106	80-120	
4-Bromofluorobenzene (S)	%			104	79-129	
Dibromofluoromethane (S)	%			108	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478653 1478654

Parameter	Units	30255157007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.1	18.0	86	90	51-124	5	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.3	20.0	92	100	79-129	9	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.0	18.3	85	92	57-118	7	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.9	18.3	84	92	68-117	8	30	
1,1-Dichloroethane	ug/L	ND	20	20	16.8	17.6	84	88	74-119	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	18.5	19.1	93	96	63-126	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.9	22.0	100	110	56-129	10	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.9	16.8	80	84	53-120	5	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.8	20.0	94	100	69-124	6	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.9	18.1	85	90	72-119	7	30	
1,2-Dichloroethane	ug/L	ND	20	20	17.8	18.4	89	92	69-116	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	16.2	17.4	81	87	63-118	7	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.5	17.2	83	86	72-118	4	30	
2-Butanone (MEK)	ug/L	ND	20	20	22.3	23.8	93	100	72-168	6	30	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30254995

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1478653 1478654

Parameter	Units	30255157007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	20	20	16.7	17.1	83	85	66-143	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.0	19.5	90	98	67-145	8	30	
Acetone	ug/L	47.5	20	20	49.5	78.0	10	153	15-175	45	30	ML,R1
Acrylonitrile	ug/L	ND	20	20	18.9	18.6	94	93	36-165	2	30	
Benzene	ug/L	ND	20	20	16.5	17.0	83	85	67-121	3	30	
Bromochloromethane	ug/L	ND	20	20	19.3	20.2	97	101	62-128	5	30	
Bromodichloromethane	ug/L	ND	20	20	18.7	19.0	93	95	66-127	2	30	
Bromoform	ug/L	ND	20	20	15.9	17.7	79	89	71-127	11	30	
Bromomethane	ug/L	ND	20	20	22.3	24.9	112	125	10-156	11	30	
Carbon disulfide	ug/L	ND	20	20	16.5	17.1	82	85	45-131	4	30	
Carbon tetrachloride	ug/L	ND	20	20	19.5	19.9	97	99	69-134	2	30	
Chlorobenzene	ug/L	ND	20	20	16.1	16.8	81	84	69-119	4	30	
Chloroethane	ug/L	ND	20	20	25.4	26.6	127	133	60-156	5	30	
Chloroform	ug/L	ND	20	20	17.2	18.1	86	91	69-115	5	30	
Chloromethane	ug/L	ND	20	20	21.0	22.8	105	114	52-145	8	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	17.3	17.6	87	88	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.9	17.2	80	86	57-125	8	30	
Dibromochloromethane	ug/L	ND	20	20	17.8	18.8	89	94	64-131	6	30	
Dibromomethane	ug/L	ND	20	20	17.7	19.0	88	95	56-133	7	30	
Ethylbenzene	ug/L	ND	20	20	15.9	16.9	80	85	70-127	6	30	
Iodomethane	ug/L	ND	20	20	14.5J	20.7J	72	103	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	21.0	99	105	79-135	5	30	
Methylene Chloride	ug/L	ND	20	20	16.1	16.3	80	81	54-133	1	30	
Naphthalene	ug/L	ND	20	20	19.5	17.1	98	85	62-131	13	30	
Styrene	ug/L	ND	20	20	16.3	17.6	82	88	65-121	7	30	
Tetrachloroethene	ug/L	2.4	20	20	19.6	18.1	86	78	77-125	8	30	
Toluene	ug/L	ND	20	20	15.4	16.8	77	84	77-125	9	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.0	18.4	85	92	70-119	8	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.3	16.9	81	85	52-125	4	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	8.0	8.5	40	42	13-100	6	30	
Trichloroethene	ug/L	ND	20	20	16.6	16.8	83	84	74-128	1	30	
Trichlorofluoromethane	ug/L	ND	20	20	37.6	37.3	188	187	54-164	1	30	CH,MH
Vinyl acetate	ug/L	ND	20	20	14.0	14.5	70	73	15-173	4	30	
Vinyl chloride	ug/L	ND	20	20	23.3	25.9	116	130	60-131	11	30	
Xylene (Total)	ug/L	ND	60	60	48.0	51.2	80	85	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%						114	117	80-120			
4-Bromofluorobenzene (S)	%						95	99	79-129			
Dibromofluoromethane (S)	%						109	110	80-120			
Toluene-d8 (S)	%						98	100	80-120			

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30254995

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30254995

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30254995001	**Trip Blank**	EPA 8260B	302001		
30254995002	**C037-PZM038**	EPA 8260B	301914		
30254995003	**C042-PZM004**	EPA 8260B	301914		
30254995004	**C024-PZM007**	EPA 8260B	301914		
30254995005	**C023-PZM008**	EPA 8260B	301914		
30254995006	**C059-PZM002**	EPA 8260B	301914		
30254995007	**C056-PZM001**	EPA 8260B	301914		
30254995008	**C055-PZM000**	EPA 8260B	301914		
30254995009	**C026-PZM007**	EPA 8260B	301914		
30254995010	**C058-PZM001**	EPA 8260B	301914		
30254995011	**C057-PZP002**	EPA 8260B	302001		
30254995012	**C060-PZP001**	EPA 8260B	301914		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A — Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5 Day

Section B — Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384m-1

Section C — Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D — Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

WO# : 30254995

30254995

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	Voc	Residual Chl	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/5/18	—		2				2							X		001
2	C037-PZM038	WT	G				905		3				3						X			002
3	C042-PZM004	WT	G				950		3				3						X			003
4	C024-PZM007	WT	G				1115		3				3						X			004
5	C023-PZM008	WT	G				1150		3				3						X			005
6	C059-PZM002	WT	G				1215		3				3						X			006
7	C056-PZP001	WT	G				1250		3				3						X			007
8	C055-PZM000	WT	G				1325		3				3						X			008
9	C026-PZM007	WT	G				1420		3				3						X			009
10	C058-PZM001	WT	G				1455		3				3						X			010
11	C057-PZP002	WT	G				1545		3				3						X			011
12	C060-PZP001	WT	G				1625		3				3						X			012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No pkgs		6/5/18	1653		6/5/18	1650	
		6/5/18	2024		6-5-18	2030	X
		6-6-18	0030		6/6/18	0030	4.6 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: Lisa Perrin — DATE Signed (MM/DD/YY): 6/5/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: EnviroAnalytics Project # 30254905

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label ANW
LIMS Login ANW

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 7 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 4.7 °C Correction Factor: -0.1 °C Final Temp: 4.6 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: ATM 6-6-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA) coliform, TOC, O&G, Phenolics			X	16. Initial when completed AM Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		X		17.
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 21, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30255136

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30255136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30255136001	**Trip Blank**	Water	06/06/18 00:01	06/06/18 23:00
30255136002	**C072-PZM005**	Water	06/06/18 10:45	06/06/18 23:00
30255136003	**C071-PZM006**	Water	06/06/18 10:55	06/06/18 23:00
30255136004	**C070-PZM005**	Water	06/06/18 11:17	06/06/18 23:00
30255136005	**C069-PZM005**	Water	06/06/18 11:34	06/06/18 23:00
30255136006	**C068-PZM005**	Water	06/06/18 11:58	06/06/18 23:00
30255136007	**C067-PZM006**	Water	06/06/18 12:35	06/06/18 23:00
30255136008	**C066-PZM005**	Water	06/06/18 13:02	06/06/18 23:00
30255136009	**C065-PZM005**	Water	06/06/18 13:20	06/06/18 23:00
30255136010	**C064-PZM006**	Water	06/06/18 13:44	06/06/18 23:00
30255136011	**C063-PZM007**	Water	06/06/18 14:20	06/06/18 23:00

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30255136

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30255136001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30255136002	**C072-PZM005**	EPA 8260B	MAK	53	PASI-PA
30255136003	**C071-PZM006**	EPA 8260B	MAK	53	PASI-PA
30255136004	**C070-PZM005**	EPA 8260B	MAK	53	PASI-PA
30255136005	**C069-PZM005**	EPA 8260B	MAK	53	PASI-PA
30255136006	**C068-PZM005**	EPA 8260B	MAK	53	PASI-PA
30255136007	**C067-PZM006**	EPA 8260B	MAK	53	PASI-PA
30255136008	**C066-PZM005**	EPA 8260B	MAK	53	PASI-PA
30255136009	**C065-PZM005**	EPA 8260B	MAK	53	PASI-PA
30255136010	**C064-PZM006**	EPA 8260B	MAK	53	PASI-PA
30255136011	**C063-PZM007**	EPA 8260B	MAK	53	PASI-PA

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: Trip Blank **Lab ID: 30255136001** Collected: 06/06/18 00:01 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 12:54	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 12:54	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 12:54	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 12:54	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 12:54	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 12:54	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 12:54	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/19/18 12:54	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 12:54	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 12:54	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 12:54	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 12:54	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 12:54	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/19/18 12:54	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/19/18 12:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/19/18 12:54	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		06/19/18 12:54	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 12:54	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/19/18 12:54	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 12:54	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 12:54	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 12:54	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 12:54	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 12:54	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 12:54	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/19/18 12:54	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 12:54	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 12:54	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/19/18 12:54	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 12:54	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 12:54	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 12:54	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/19/18 12:54	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 12:54	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 12:54	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/19/18 12:54	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/19/18 12:54	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 12:54	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 12:54	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 12:54	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 12:54	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/19/18 12:54	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 12:54	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/19/18 12:54	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 12:54	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 12:54	10061-01-5	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: Trip Blank **Lab ID: 30255136001** Collected: 06/06/18 00:01 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 12:54	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 12:54	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/19/18 12:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		06/19/18 12:54	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		06/19/18 12:54	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		06/19/18 12:54	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		06/19/18 12:54	1868-53-7	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C072-PZM005 **Lab ID: 30255136002** Collected: 06/06/18 10:45 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 22:00	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 22:00	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 22:00	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 22:00	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 22:00	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 22:00	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 22:00	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 22:00	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 22:00	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 22:00	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 22:00	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 22:00	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 22:00	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 22:00	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 22:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 22:00	108-10-1	
Acetone	**17.4J**	ug/L	50.0	14.2	5		06/19/18 22:00	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 22:00	107-13-1	
Benzene	**317**	ug/L	5.0	1.2	5		06/19/18 22:00	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 22:00	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 22:00	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 22:00	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 22:00	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 22:00	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 22:00	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 22:00	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 22:00	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 22:00	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 22:00	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 22:00	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 22:00	74-95-3	
Ethylbenzene	**12.6**	ug/L	5.0	1.6	5		06/19/18 22:00	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 22:00	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 22:00	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 22:00	75-09-2	
Naphthalene	**3370**	ug/L	100	41.0	50		06/19/18 22:25	91-20-3	
Styrene	**54.7**	ug/L	5.0	0.85	5		06/19/18 22:00	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 22:00	127-18-4	
Toluene	**195**	ug/L	5.0	1.5	5		06/19/18 22:00	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 22:00	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 22:00	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 22:00	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 22:00	75-01-4	
Xylene (Total)	**275**	ug/L	15.0	3.9	5		06/19/18 22:00	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 22:00	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 22:00	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C072-PZM005 **Lab ID: 30255136002** Collected: 06/06/18 10:45 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 22:00	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 22:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 22:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		5		06/19/18 22:00	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		5		06/19/18 22:00	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		06/19/18 22:00	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		5		06/19/18 22:00	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C071-PZM006 **Lab ID: 30255136003** Collected: 06/06/18 10:55 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 15:01	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 15:01	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 15:01	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 15:01	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 15:01	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 15:01	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 15:01	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 15:01	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 15:01	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 15:01	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 15:01	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 15:01	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 15:01	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 15:01	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 15:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 15:01	108-10-1	
Acetone	**26.7J**	ug/L	50.0	14.2	5		06/19/18 15:01	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 15:01	107-13-1	
Benzene	**150**	ug/L	5.0	1.2	5		06/19/18 15:01	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 15:01	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 15:01	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 15:01	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 15:01	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 15:01	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 15:01	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 15:01	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 15:01	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 15:01	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 15:01	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 15:01	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 15:01	74-95-3	
Ethylbenzene	**5.5**	ug/L	5.0	1.6	5		06/19/18 15:01	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 15:01	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 15:01	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 15:01	75-09-2	
Naphthalene	**103**	ug/L	10.0	4.1	5		06/19/18 15:01	91-20-3	
Styrene	**13.6**	ug/L	5.0	0.85	5		06/19/18 15:01	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 15:01	127-18-4	
Toluene	**85.3**	ug/L	5.0	1.5	5		06/19/18 15:01	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 15:01	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 15:01	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 15:01	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 15:01	75-01-4	
Xylene (Total)	**110**	ug/L	15.0	3.9	5		06/19/18 15:01	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 15:01	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 15:01	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C071-PZM006 **Lab ID: 30255136003** Collected: 06/06/18 10:55 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 15:01	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 15:01	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 15:01	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		5		06/19/18 15:01	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		5		06/19/18 15:01	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		06/19/18 15:01	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		5		06/19/18 15:01	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C070-PZM005 **Lab ID: 30255136004** Collected: 06/06/18 11:17 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 15:26	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 15:26	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 15:26	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 15:26	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 15:26	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 15:26	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 15:26	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/19/18 15:26	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 15:26	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 15:26	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 15:26	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 15:26	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 15:26	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/19/18 15:26	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/19/18 15:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/19/18 15:26	108-10-1	
Acetone	**6.1J**	ug/L	10.0	2.8	1		06/19/18 15:26	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 15:26	107-13-1	
Benzene	**76.5**	ug/L	1.0	0.24	1		06/19/18 15:26	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 15:26	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 15:26	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 15:26	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 15:26	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 15:26	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 15:26	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/19/18 15:26	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 15:26	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 15:26	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/19/18 15:26	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 15:26	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 15:26	74-95-3	
Ethylbenzene	**3.9**	ug/L	1.0	0.31	1		06/19/18 15:26	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/19/18 15:26	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 15:26	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 15:26	75-09-2	
Naphthalene	**764**	ug/L	40.0	16.4	20		06/19/18 15:52	91-20-3	
Styrene	**11.0**	ug/L	1.0	0.17	1		06/19/18 15:26	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 15:26	127-18-4	
Toluene	**45.4**	ug/L	1.0	0.30	1		06/19/18 15:26	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 15:26	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 15:26	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/19/18 15:26	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 15:26	75-01-4	
Xylene (Total)	**79.5**	ug/L	3.0	0.78	1		06/19/18 15:26	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 15:26	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 15:26	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C070-PZM005 **Lab ID: 30255136004** Collected: 06/06/18 11:17 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 15:26	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 15:26	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/19/18 15:26	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		06/19/18 15:26	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		06/19/18 15:26	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/19/18 15:26	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		06/19/18 15:26	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C069-PZM005 **Lab ID: 30255136005** Collected: 06/06/18 11:34 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 16:17	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 16:17	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 16:17	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 16:17	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 16:17	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 16:17	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 16:17	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/19/18 16:17	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 16:17	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 16:17	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 16:17	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 16:17	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 16:17	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/19/18 16:17	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/19/18 16:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/19/18 16:17	108-10-1	
Acetone	**6.5J**	ug/L	10.0	2.8	1		06/19/18 16:17	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 16:17	107-13-1	
Benzene	**234**	ug/L	1.0	0.24	1		06/19/18 16:17	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 16:17	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 16:17	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 16:17	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 16:17	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 16:17	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 16:17	56-23-5	
Chlorobenzene	**0.54J**	ug/L	1.0	0.15	1		06/19/18 16:17	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 16:17	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 16:17	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/19/18 16:17	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 16:17	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 16:17	74-95-3	
Ethylbenzene	**10.7**	ug/L	1.0	0.31	1		06/19/18 16:17	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/19/18 16:17	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 16:17	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 16:17	75-09-2	
Naphthalene	**1980**	ug/L	40.0	16.4	20		06/19/18 16:43	91-20-3	
Styrene	**46.9**	ug/L	1.0	0.17	1		06/19/18 16:17	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 16:17	127-18-4	
Toluene	**160**	ug/L	1.0	0.30	1		06/19/18 16:17	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 16:17	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 16:17	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/19/18 16:17	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 16:17	75-01-4	
Xylene (Total)	**238**	ug/L	3.0	0.78	1		06/19/18 16:17	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 16:17	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 16:17	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C069-PZM005 **Lab ID: 30255136005** Collected: 06/06/18 11:34 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 16:17	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 16:17	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/19/18 16:17	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		1		06/19/18 16:17	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		06/19/18 16:17	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/19/18 16:17	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		06/19/18 16:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C068-PZM005 **Lab ID: 30255136006** Collected: 06/06/18 11:58 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 17:08	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:08	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 17:08	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:08	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 17:08	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:08	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 17:08	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 17:08	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:08	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 17:08	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 17:08	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:08	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:08	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 17:08	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 17:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 17:08	108-10-1	
Acetone	**17.8J**	ug/L	50.0	14.2	5		06/19/18 17:08	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 17:08	107-13-1	
Benzene	**237**	ug/L	5.0	1.2	5		06/19/18 17:08	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 17:08	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:08	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:08	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 17:08	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:08	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 17:08	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 17:08	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 17:08	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 17:08	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 17:08	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:08	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 17:08	74-95-3	
Ethylbenzene	**10.9**	ug/L	5.0	1.6	5		06/19/18 17:08	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 17:08	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 17:08	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 17:08	75-09-2	
Naphthalene	**1770**	ug/L	10.0	4.1	5		06/19/18 17:08	91-20-3	
Styrene	**33.9**	ug/L	5.0	0.85	5		06/19/18 17:08	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:08	127-18-4	
Toluene	**144**	ug/L	5.0	1.5	5		06/19/18 17:08	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 17:08	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:08	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 17:08	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:08	75-01-4	
Xylene (Total)	**222**	ug/L	15.0	3.9	5		06/19/18 17:08	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 17:08	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 17:08	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C068-PZM005 **Lab ID: 30255136006** Collected: 06/06/18 11:58 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 17:08	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 17:08	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 17:08	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		5		06/19/18 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		5		06/19/18 17:08	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		06/19/18 17:08	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		5		06/19/18 17:08	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C067-PZM006 **Lab ID: 30255136007** Collected: 06/06/18 12:35 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 17:59	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:59	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 17:59	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:59	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 17:59	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:59	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 17:59	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 17:59	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:59	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 17:59	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 17:59	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:59	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 17:59	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 17:59	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 17:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 17:59	108-10-1	
Acetone	**14.7J**	ug/L	50.0	14.2	5		06/19/18 17:59	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 17:59	107-13-1	
Benzene	**191**	ug/L	5.0	1.2	5		06/19/18 17:59	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 17:59	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:59	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:59	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 17:59	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:59	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 17:59	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 17:59	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 17:59	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 17:59	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 17:59	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:59	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 17:59	74-95-3	
Ethylbenzene	**9.8**	ug/L	5.0	1.6	5		06/19/18 17:59	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 17:59	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 17:59	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 17:59	75-09-2	
Naphthalene	**1030**	ug/L	10.0	4.1	5		06/19/18 17:59	91-20-3	
Styrene	**27.7**	ug/L	5.0	0.85	5		06/19/18 17:59	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:59	127-18-4	
Toluene	**124**	ug/L	5.0	1.5	5		06/19/18 17:59	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 17:59	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 17:59	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 17:59	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 17:59	75-01-4	
Xylene (Total)	**196**	ug/L	15.0	3.9	5		06/19/18 17:59	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 17:59	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 17:59	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C067-PZM006 **Lab ID: 30255136007** Collected: 06/06/18 12:35 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 17:59	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 17:59	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 17:59	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		06/19/18 17:59	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		5		06/19/18 17:59	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		06/19/18 17:59	2037-26-5	
Dibromofluoromethane (S)	104	%	80-120		5		06/19/18 17:59	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C066-PZM005 **Lab ID: 30255136008** Collected: 06/06/18 13:02 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 18:50	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:50	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 18:50	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:50	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 18:50	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:50	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 18:50	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 18:50	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:50	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 18:50	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 18:50	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:50	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:50	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 18:50	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 18:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 18:50	108-10-1	
Acetone	**15.3J**	ug/L	50.0	14.2	5		06/19/18 18:50	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 18:50	107-13-1	
Benzene	**332**	ug/L	5.0	1.2	5		06/19/18 18:50	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 18:50	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:50	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:50	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 18:50	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:50	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 18:50	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 18:50	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 18:50	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 18:50	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 18:50	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:50	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 18:50	74-95-3	
Ethylbenzene	**16.8**	ug/L	5.0	1.6	5		06/19/18 18:50	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 18:50	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 18:50	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 18:50	75-09-2	
Naphthalene	**3960**	ug/L	100	41.0	50		06/19/18 19:16	91-20-3	
Styrene	**74.8**	ug/L	5.0	0.85	5		06/19/18 18:50	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:50	127-18-4	
Toluene	**227**	ug/L	5.0	1.5	5		06/19/18 18:50	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 18:50	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:50	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 18:50	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:50	75-01-4	
Xylene (Total)	**344**	ug/L	15.0	3.9	5		06/19/18 18:50	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 18:50	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 18:50	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C066-PZM005 **Lab ID: 30255136008** Collected: 06/06/18 13:02 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 18:50	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 18:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 18:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	79-129		5		06/19/18 18:50	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		5		06/19/18 18:50	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		06/19/18 18:50	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		06/19/18 18:50	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C065-PZM005 **Lab ID: 30255136009** Collected: 06/06/18 13:20 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 19:41	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 19:41	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 19:41	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 19:41	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 19:41	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 19:41	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 19:41	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 19:41	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 19:41	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 19:41	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 19:41	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 19:41	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 19:41	106-46-7	
2-Butanone (MEK)	**34.4J**	ug/L	50.0	10.5	5		06/19/18 19:41	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 19:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 19:41	108-10-1	
Acetone	**26.2J**	ug/L	50.0	14.2	5		06/19/18 19:41	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 19:41	107-13-1	
Benzene	**278**	ug/L	5.0	1.2	5		06/19/18 19:41	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 19:41	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 19:41	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 19:41	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 19:41	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 19:41	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 19:41	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 19:41	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 19:41	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 19:41	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 19:41	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 19:41	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 19:41	74-95-3	
Ethylbenzene	**13.8**	ug/L	5.0	1.6	5		06/19/18 19:41	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 19:41	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 19:41	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 19:41	75-09-2	
Naphthalene	**3400**	ug/L	100	41.0	50		06/19/18 20:06	91-20-3	
Styrene	**56.4**	ug/L	5.0	0.85	5		06/19/18 19:41	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 19:41	127-18-4	
Toluene	**197**	ug/L	5.0	1.5	5		06/19/18 19:41	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 19:41	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 19:41	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 19:41	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 19:41	75-01-4	
Xylene (Total)	**281**	ug/L	15.0	3.9	5		06/19/18 19:41	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 19:41	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 19:41	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C065-PZM005 **Lab ID: 30255136009** Collected: 06/06/18 13:20 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 19:41	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 19:41	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 19:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		5		06/19/18 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		5		06/19/18 19:41	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		06/19/18 19:41	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		06/19/18 19:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C064-PZM006 **Lab ID: 30255136010** Collected: 06/06/18 13:44 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 20:32	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:32	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 20:32	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:32	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 20:32	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:32	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 20:32	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 20:32	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:32	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 20:32	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 20:32	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:32	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:32	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 20:32	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 20:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 20:32	108-10-1	
Acetone	**16.1J**	ug/L	50.0	14.2	5		06/19/18 20:32	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 20:32	107-13-1	
Benzene	**280**	ug/L	5.0	1.2	5		06/19/18 20:32	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 20:32	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:32	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:32	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 20:32	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:32	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 20:32	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 20:32	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 20:32	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 20:32	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 20:32	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:32	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 20:32	74-95-3	
Ethylbenzene	**16.0**	ug/L	5.0	1.6	5		06/19/18 20:32	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 20:32	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 20:32	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 20:32	75-09-2	
Naphthalene	**3440**	ug/L	100	41.0	50		06/19/18 20:57	91-20-3	
Styrene	**51.6**	ug/L	5.0	0.85	5		06/19/18 20:32	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:32	127-18-4	
Toluene	**175**	ug/L	5.0	1.5	5		06/19/18 20:32	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 20:32	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:32	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 20:32	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:32	75-01-4	
Xylene (Total)	**295**	ug/L	15.0	3.9	5		06/19/18 20:32	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 20:32	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 20:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C064-PZM006 **Lab ID: 30255136010** Collected: 06/06/18 13:44 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 20:32	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 20:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 20:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		5		06/19/18 20:32	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		5		06/19/18 20:32	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		06/19/18 20:32	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		06/19/18 20:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C063-PZM007 **Lab ID: 30255136011** Collected: 06/06/18 14:20 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 21:22	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:22	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 21:22	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:22	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 21:22	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:22	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 21:22	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 21:22	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:22	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 21:22	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 21:22	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:22	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:22	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 21:22	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 21:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 21:22	108-10-1	
Acetone	**26.5J**	ug/L	50.0	14.2	5		06/19/18 21:22	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 21:22	107-13-1	
Benzene	**275**	ug/L	5.0	1.2	5		06/19/18 21:22	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 21:22	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:22	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:22	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 21:22	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:22	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 21:22	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 21:22	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 21:22	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 21:22	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 21:22	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:22	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 21:22	74-95-3	
Ethylbenzene	**15.2**	ug/L	5.0	1.6	5		06/19/18 21:22	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 21:22	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 21:22	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 21:22	75-09-2	
Naphthalene	**3510**	ug/L	100	41.0	50		06/19/18 21:48	91-20-3	
Styrene	**48.2**	ug/L	5.0	0.85	5		06/19/18 21:22	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:22	127-18-4	
Toluene	**166**	ug/L	5.0	1.5	5		06/19/18 21:22	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 21:22	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:22	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 21:22	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:22	75-01-4	
Xylene (Total)	**274**	ug/L	15.0	3.9	5		06/19/18 21:22	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 21:22	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 21:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255136

Sample: C063-PZM007 **Lab ID: 30255136011** Collected: 06/06/18 14:20 Received: 06/06/18 23:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 21:22	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 21:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 21:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		06/19/18 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		5		06/19/18 21:22	17060-07-0	
Toluene-d8 (S)	98	%	80-120		5		06/19/18 21:22	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		5		06/19/18 21:22	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

QC Batch: 302682 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30255136001, 30255136003, 30255136004, 30255136005, 30255136006, 30255136007, 30255136008, 30255136009, 30255136010, 30255136011

METHOD BLANK: 1481224 Matrix: Water
Associated Lab Samples: 30255136001, 30255136003, 30255136004, 30255136005, 30255136006, 30255136007, 30255136008, 30255136009, 30255136010, 30255136011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/19/18 12:28	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:28	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:28	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/19/18 12:28	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/19/18 12:28	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/19/18 12:28	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/19/18 12:28	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/19/18 12:28	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/19/18 12:28	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/19/18 12:28	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/19/18 12:28	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/19/18 12:28	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/19/18 12:28	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/19/18 12:28	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/19/18 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/19/18 12:28	
Acetone	ug/L	10.0 U	10.0	2.8	06/19/18 12:28	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/19/18 12:28	
Benzene	ug/L	1.0 U	1.0	0.24	06/19/18 12:28	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:28	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/19/18 12:28	
Bromoform	ug/L	1.0 U	1.0	0.32	06/19/18 12:28	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/19/18 12:28	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/19/18 12:28	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/19/18 12:28	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/19/18 12:28	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/19/18 12:28	
Chloroform	ug/L	1.0 U	1.0	0.30	06/19/18 12:28	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/19/18 12:28	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/19/18 12:28	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/19/18 12:28	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/19/18 12:28	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/19/18 12:28	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/19/18 12:28	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/19/18 12:28	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/19/18 12:28	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/19/18 12:28	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/19/18 12:28	
Styrene	ug/L	1.0 U	1.0	0.17	06/19/18 12:28	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/19/18 12:28	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

METHOD BLANK: 1481224 Matrix: Water

Associated Lab Samples: 30255136001, 30255136003, 30255136004, 30255136005, 30255136006, 30255136007, 30255136008, 30255136009, 30255136010, 30255136011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	06/19/18 12:28	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/19/18 12:28	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/19/18 12:28	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/19/18 12:28	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/19/18 12:28	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:28	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/19/18 12:28	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/19/18 12:28	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/19/18 12:28	
1,2-Dichloroethane-d4 (S)	%	105	80-120		06/19/18 12:28	
4-Bromofluorobenzene (S)	%	102	79-129		06/19/18 12:28	
Dibromofluoromethane (S)	%	101	80-120		06/19/18 12:28	
Toluene-d8 (S)	%	95	80-120		06/19/18 12:28	

LABORATORY CONTROL SAMPLE: 1481225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.3	97	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	65-127	
1,1,2-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	20	19.1	96	70-130	
1,1-Dichloroethene	ug/L	20	20.0	100	70-130	
1,2,3-Trichloropropane	ug/L	20	20.3	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.2	96	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.3	97	70-130	
1,2-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloropropane	ug/L	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	20	19.5	97	70-130	
2-Butanone (MEK)	ug/L	20	20.5	103	72-170	
2-Hexanone	ug/L	20	19.9	100	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	100	66-150	
Acetone	ug/L	20	21.5	107	30-179	
Acrylonitrile	ug/L	20	21.2	106	48-172	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	19.0	95	70-130	
Bromodichloromethane	ug/L	20	18.5	93	70-130	
Bromoform	ug/L	20	19.1	95	70-130	
Bromomethane	ug/L	20	22.6	113	47-174	
Carbon disulfide	ug/L	20	19.4	97	43-133	
Carbon tetrachloride	ug/L	20	19.9	99	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

LABORATORY CONTROL SAMPLE: 1481225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	20.8	104	67-139	
Chloroform	ug/L	20	19.0	95	70-130	
Chloromethane	ug/L	20	17.8	89	57-138	
cis-1,2-Dichloroethene	ug/L	20	19.5	98	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	70-130	
Dibromochloromethane	ug/L	20	18.8	94	70-130	
Dibromomethane	ug/L	20	19.8	99	70-130	
Ethylbenzene	ug/L	20	18.9	94	70-130	
Iodomethane	ug/L	20	20.6J	103	10-175	
Methyl-tert-butyl ether	ug/L	20	19.9	99	70-130	
Methylene Chloride	ug/L	20	19.7	99	55-144	
Naphthalene	ug/L	20	19.9	99	70-130	
Styrene	ug/L	20	18.9	95	70-130	
Tetrachloroethene	ug/L	20	19.2	96	70-130	
Toluene	ug/L	20	18.2	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.7	98	27-116	
Trichloroethene	ug/L	20	19.2	96	70-130	
Trichlorofluoromethane	ug/L	20	22.9	115	60-148	
Vinyl acetate	ug/L	20	21.1	106	30-181	
Vinyl chloride	ug/L	20	19.6	98	70-130	
Xylene (Total)	ug/L	60	56.7	95	70-130	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	79-129	
Dibromofluoromethane (S)	%			104	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481915 1481916

Parameter	Units	30255282011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.1	23.8	96	119	51-124	22	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.5	24.4	98	122	79-129	22	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.9	22.4	89	112	57-118	22	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.6	22.9	88	114	68-117	26	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.1	24.4	96	122	74-119	24	30	MH
1,1-Dichloroethene	ug/L	1.0 U	20	20	20.6	27.0	103	135	63-126	27	30	MH
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.2	24.6	96	123	56-129	25	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	17.2	21.3	86	107	53-120	21	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.4	23.4	92	117	69-124	24	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.3	24.6	97	123	72-119	24	30	MH
1,2-Dichloroethane	ug/L	1.0 U	20	20	18.6	23.3	93	117	69-116	22	30	MH
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.4	23.5	92	117	63-118	24	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481915 1481916

Parameter	Units	30255282011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.5	25.2	97	126	72-118	26	30	MH
2-Butanone (MEK)	ug/L	10.0 U	20	20	19.4	23.8	97	119	72-168	20	30	
2-Hexanone	ug/L	10.0 U	20	20	19.0	24.5	95	123	66-143	25	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	20.3	25.4	101	127	67-145	23	30	
Acetone	ug/L	4.5J	20	20	22.2	31.2	88	134	15-175	34	30	R1
Acrylonitrile	ug/L	4.0 U	20	20	16.8	22.5	84	112	36-165	29	30	
Benzene	ug/L	16.9	20	20	35.7	40.1	94	116	67-121	12	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.7	24.2	94	121	62-128	26	30	
Bromodichloromethane	ug/L	1.0 U	20	20	18.4	23.8	92	119	66-127	26	30	
Bromoform	ug/L	1.0 U	20	20	16.4	20.8	82	104	71-127	24	30	
Bromomethane	ug/L	1.0 U	20	20	16.3	19.3	82	96	10-156	16	30	
Carbon disulfide	ug/L	1.0 U	20	20	14.8	19.0	74	95	45-131	25	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	20.2	26.0	101	130	69-134	25	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.7	25.0	98	125	69-119	24	30	MH
Chloroethane	ug/L	1.0 U	20	20	21.8	32.2	109	161	60-156	38	30	MH,R1
Chloroform	ug/L	1.0 U	20	20	18.4	23.2	92	116	69-115	23	30	MH
Chloromethane	ug/L	1.0 U	20	20	20.9	26.2	105	131	52-145	22	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.3	24.9	97	125	65-120	25	30	MH
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.4	23.1	92	116	57-125	23	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.7	22.1	88	111	64-131	22	30	
Dibromomethane	ug/L	1.0 U	20	20	19.6	25.3	98	126	56-133	25	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.8	24.8	99	124	70-127	22	30	
Iodomethane	ug/L	50.0 U	20	20	12.1J	11.4J	60	57	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	20.5	26.2	103	131	79-135	24	30	
Methylene Chloride	ug/L	1.0 U	20	20	17.3	23.9	87	120	54-133	32	30	R1
Naphthalene	ug/L	2.0 U	20	20	19.7	24.5	98	123	62-131	22	30	
Styrene	ug/L	1.0 U	20	20	18.9	24.1	94	121	65-121	24	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.7	25.8	104	129	77-125	22	30	MH
Toluene	ug/L	1.0 U	20	20	19.0	24.3	95	121	77-125	24	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	24.3	96	122	70-119	23	30	MH
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.0	22.1	85	110	52-125	26	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	10.3	13.1	52	65	13-100	24	30	
Trichloroethene	ug/L	1.0 U	20	20	19.1	24.8	95	124	74-128	26	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	30.7	39.0	153	195	54-164	24	30	MH
Vinyl acetate	ug/L	10.0 U	20	20	18.5	24.6	92	123	15-173	29	30	
Vinyl chloride	ug/L	1.0 U	20	20	23.3	28.9	116	145	60-131	22	30	MH
Xylene (Total)	ug/L	3.0 U	60	60	58.8	75.1	98	125	69-128	24	30	
1,2-Dichloroethane-d4 (S)	%						104	104	80-120			
4-Bromofluorobenzene (S)	%						102	99	79-129			
Dibromofluoromethane (S)	%						102	101	80-120			
Toluene-d8 (S)	%						98	97	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

QC Batch: 302687 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30255136002

METHOD BLANK: 1481231 Matrix: Water
Associated Lab Samples: 30255136002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/19/18 12:15	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:15	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:15	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/19/18 12:15	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/19/18 12:15	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/19/18 12:15	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/19/18 12:15	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/19/18 12:15	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/19/18 12:15	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/19/18 12:15	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/19/18 12:15	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/19/18 12:15	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/19/18 12:15	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/19/18 12:15	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/19/18 12:15	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/19/18 12:15	
Acetone	ug/L	10.0 U	10.0	2.8	06/19/18 12:15	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/19/18 12:15	
Benzene	ug/L	1.0 U	1.0	0.24	06/19/18 12:15	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:15	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/19/18 12:15	
Bromoform	ug/L	1.0 U	1.0	0.32	06/19/18 12:15	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/19/18 12:15	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/19/18 12:15	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/19/18 12:15	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/19/18 12:15	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/19/18 12:15	
Chloroform	ug/L	1.0 U	1.0	0.30	06/19/18 12:15	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/19/18 12:15	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/19/18 12:15	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/19/18 12:15	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/19/18 12:15	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/19/18 12:15	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/19/18 12:15	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/19/18 12:15	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/19/18 12:15	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/19/18 12:15	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/19/18 12:15	
Styrene	ug/L	1.0 U	1.0	0.17	06/19/18 12:15	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/19/18 12:15	
Toluene	ug/L	1.0 U	1.0	0.30	06/19/18 12:15	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

METHOD BLANK: 1481231 Matrix: Water
Associated Lab Samples: 30255136002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/19/18 12:15	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/19/18 12:15	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/19/18 12:15	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/19/18 12:15	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:15	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/19/18 12:15	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/19/18 12:15	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/19/18 12:15	
1,2-Dichloroethane-d4 (S)	%	109	80-120		06/19/18 12:15	
4-Bromofluorobenzene (S)	%	102	79-129		06/19/18 12:15	
Dibromofluoromethane (S)	%	102	80-120		06/19/18 12:15	
Toluene-d8 (S)	%	95	80-120		06/19/18 12:15	

LABORATORY CONTROL SAMPLE: 1481232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.2	96	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	65-127	
1,1,2-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethene	ug/L	20	19.9	99	70-130	
1,2,3-Trichloropropane	ug/L	20	19.5	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.6	93	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	98	70-130	
1,2-Dichlorobenzene	ug/L	20	19.5	98	70-130	
1,2-Dichloroethane	ug/L	20	19.3	97	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	20	19.4	97	72-170	
2-Hexanone	ug/L	20	19.3	96	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.1	96	66-150	
Acetone	ug/L	20	20.5	103	30-179	
Acrylonitrile	ug/L	20	20.5	103	48-172	
Benzene	ug/L	20	19.4	97	70-130	
Bromochloromethane	ug/L	20	20.7	103	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	18.9	94	70-130	
Bromomethane	ug/L	20	24.5	122	47-174	
Carbon disulfide	ug/L	20	19.6	98	43-133	
Carbon tetrachloride	ug/L	20	20.4	102	56-143	
Chlorobenzene	ug/L	20	19.3	97	70-130	
Chloroethane	ug/L	20	19.3	97	67-139	
Chloroform	ug/L	20	20.4	102	70-130	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

LABORATORY CONTROL SAMPLE: 1481232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.4	92	57-138	
cis-1,2-Dichloroethene	ug/L	20	19.3	97	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	19.3	97	70-130	
Dibromomethane	ug/L	20	20.3	102	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	20	18.0J	90	10-175	
Methyl-tert-butyl ether	ug/L	20	20.1	101	70-130	
Methylene Chloride	ug/L	20	20.8	104	55-144	
Naphthalene	ug/L	20	20.1	101	70-130	
Styrene	ug/L	20	19.5	97	70-130	
Tetrachloroethene	ug/L	20	19.4	97	70-130	
Toluene	ug/L	20	18.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	18.6	93	27-116	
Trichloroethene	ug/L	20	19.7	98	70-130	
Trichlorofluoromethane	ug/L	20	22.3	112	60-148	
Vinyl acetate	ug/L	20	19.5	98	30-181	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	57.5	96	70-130	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			103	79-129	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481897 1481898

Parameter	Units	30255282005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.2	17.4	91	87	51-124	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.3	18.2	96	91	79-129	6	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.6	16.8	88	84	57-118	5	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.7	17.5	89	88	68-117	1	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.9	18.0	94	90	74-119	5	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	20.6	19.3	103	96	63-126	7	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	18.2	17.5	91	88	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.8	15.2	79	76	53-120	4	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.1	18.3	95	92	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.4	18.6	97	93	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.1	18.4	95	92	69-116	4	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.8	18.1	94	91	63-118	4	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.3	18.5	97	93	72-118	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.6	18.8	93	94	72-168	1	30	

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255136

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481897 1481898

Parameter	Units	30255282005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	17.1	16.6	86	83	66-143	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.4	17.8	92	89	67-145	3	30	
Acetone	ug/L	4.0J	20	20	22.9	20.7	94	83	15-175	10	30	
Acrylonitrile	ug/L	4.0 U	20	20	18.7	18.2	93	91	36-165	3	30	
Benzene	ug/L	1.0 U	20	20	19.2	18.1	96	90	67-121	6	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.7	19.8	104	99	62-128	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.7	16.5	83	82	66-127	1	30	
Bromoform	ug/L	1.0 U	20	20	14.6	14.3	73	71	71-127	2	30	
Bromomethane	ug/L	1.0 U	20	20	19.3	19.4	96	97	10-156	1	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.0	15.6	80	78	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.9	18.6	100	93	69-134	7	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.2	18.2	96	91	69-119	5	30	
Chloroethane	ug/L	1.0 U	20	20	19.3	18.5	97	93	60-156	4	30	
Chloroform	ug/L	1.0 U	20	20	19.8	18.9	99	95	69-115	4	30	
Chloromethane	ug/L	1.0 U	20	20	14.7	14.1	74	71	52-145	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	18.6	18.0	93	90	65-120	3	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.4	16.4	87	82	57-125	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.0	16.1	85	80	64-131	6	30	
Dibromomethane	ug/L	1.0 U	20	20	19.5	18.6	98	93	56-133	5	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.2	18.1	96	90	70-127	6	30	
Iodomethane	ug/L	50.0 U	20	20	14.7J	17.6J	73	88	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	19.2	18.7	96	94	79-135	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.0	18.8	100	94	54-133	6	30	
Naphthalene	ug/L	2.0 U	20	20	18.5	18.0	92	90	62-131	3	30	
Styrene	ug/L	1.0 U	20	20	18.7	18.0	93	90	65-121	3	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.2	19.0	101	95	77-125	6	30	
Toluene	ug/L	1.0 U	20	20	19.3	17.9	96	89	77-125	8	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.3	18.1	97	91	70-119	7	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.6	16.7	88	83	52-125	5	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	12.2	11.9	61	60	13-100	2	30	
Trichloroethene	ug/L	1.0 U	20	20	19.9	18.5	100	93	74-128	7	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	24.7	23.2	123	116	54-164	6	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.7	16.3	84	81	15-173	3	30	
Vinyl chloride	ug/L	1.0 U	20	20	18.7	17.6	93	88	60-131	6	30	
Xylene (Total)	ug/L	3.0 U	60	60	58.1	54.4	97	91	69-128	7	30	
1,2-Dichloroethane-d4 (S)	%						102	100	80-120			
4-Bromofluorobenzene (S)	%						103	102	79-129			
Dibromofluoromethane (S)	%						99	101	80-120			
Toluene-d8 (S)	%						99	97	80-120			

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30255136

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
R1	RPD value was outside control limits.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30255136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30255136001	**Trip Blank**	EPA 8260B	302682		
30255136002	**C072-PZM005**	EPA 8260B	302687		
30255136003	**C071-PZM006**	EPA 8260B	302682		
30255136004	**C070-PZM005**	EPA 8260B	302682		
30255136005	**C069-PZM005**	EPA 8260B	302682		
30255136006	**C068-PZM005**	EPA 8260B	302682		
30255136007	**C067-PZM006**	EPA 8260B	302682		
30255136008	**C066-PZM005**	EPA 8260B	302682		
30255136009	**C065-PZM005**	EPA 8260B	302682		
30255136010	**C064-PZM006**	EPA 8260B	302682		
30255136011	**C063-PZM007**	EPA 8260B	302682		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: | of |

Section A Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384M-1

Section C Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO# : 30255136

30255136

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	Vloc	Residual Ch	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/6/18	—		2				2						X	X		001
2	C072-PZM005	WT	G				1045		3				3						X			002
3	C071-PZM006	WT	G				1055		3				3						X			003
4	C070-PZM005	WT	G				1117		3				3						X			004
5	C069-PZM005	WT	G				1134		3				3						X			005
6	C068-PZM005	WT	G				1158		3				3						X			006
7	C067-PZM006	WT	G				1235		3				3						X			007
8	C066-PZM005	WT	G				1302		3				3						X			008
9	C065-PZM005	WT	G				1320		3				3						X			009
10	C064-PZM006	WT	G				1344		3				3						X			010
11	C063-PZM007	WT	G				1420		3				3						X			011
12									32													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No pkgs	[signature]	6/6/18	1500	A. Banninghove / PACE	6/6/18	1540				
	A. Banninghove / PACE	6/6/18	1840	[signature]	6-6-18	1910				
	[signature]	6-6-18	2300	[signature] / Pace	6-6-18	2300	5.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 6/6/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: Enviroanalytics Project # 30255136

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other _____

Label ANU
LIMS Login ANU

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 5.4 °C Correction Factor: +0.1 °C Final Temp: 5.5 °C

Temp should be above freezing to 6°C

pH paper Lot# NIA

Date and Initials of person examining contents: AML 6-7-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used: -Pace Containers Used:	X X			10.
Containers Intact:	X			11.
Orthophosphate field filtered			X	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			X	13.
Organic Samples checked for dechlorination:			X	14.
Filtered volume received for Dissolved tests			X	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			X X	16.
exceptions: (VOA) coliform, TOC, O&G, Phenolics				Initial when completed AML Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		X		17.
Trip Blank Present:	X			18.
Trip Blank Custody Seals Present	X			
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 21, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30255282

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30255282

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30255282001	**Trip Blank**	Water	06/07/18 00:01	06/08/18 00:25
30255282002	**CO62-PZM007**	Water	06/07/18 07:55	06/08/18 00:25
30255282003	**CO61-PZM007**	Water	06/07/18 08:15	06/08/18 00:25
30255282004	**CO43-PZM048**	Water	06/07/18 09:15	06/08/18 00:25
30255282005	**CO44-PZM048**	Water	06/07/18 09:30	06/08/18 00:25
30255282006	**CO45-PZM047**	Water	06/07/18 10:27	06/08/18 00:25
30255282007	**CO46-PZM047**	Water	06/07/18 10:32	06/08/18 00:25
30255282008	**CO47-PZM046**	Water	06/07/18 10:41	06/08/18 00:25
30255282009	**CO48-PZM044**	Water	06/07/18 10:54	06/08/18 00:25
30255282010	**CO30-PZM015**	Water	06/07/18 15:35	06/08/18 00:25
30255282011	**CO30-PZM060**	Water	06/07/18 16:15	06/08/18 00:25

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30255282

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30255282001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30255282002	**CO62-PZM007**	EPA 8260B	MAK	53	PASI-PA
30255282003	**CO61-PZM007**	EPA 8260B	MAK	53	PASI-PA
30255282004	**CO43-PZM048**	EPA 8260B	MAK	53	PASI-PA
30255282005	**CO44-PZM048**	EPA 8260B	MAK	53	PASI-PA
30255282006	**CO45-PZM047**	EPA 8260B	MAK	53	PASI-PA
30255282007	**CO46-PZM047**	EPA 8260B	MAK	53	PASI-PA
30255282008	**CO47-PZM046**	EPA 8260B	MAK	53	PASI-PA
30255282009	**CO48-PZM044**	EPA 8260B	MAK	53	PASI-PA
30255282010	**CO30-PZM015**	EPA 8260B	MAK	53	PASI-PA
30255282011	**CO30-PZM060**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: Trip Blank **Lab ID: 30255282001** Collected: 06/07/18 00:01 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 12:41	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 12:41	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 12:41	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 12:41	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 12:41	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 12:41	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 12:41	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/19/18 12:41	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 12:41	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 12:41	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 12:41	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 12:41	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 12:41	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/19/18 12:41	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/19/18 12:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/19/18 12:41	108-10-1	
Acetone	**5.7J**	ug/L	5.0	2.8	1		06/19/18 12:41	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 12:41	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/19/18 12:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 12:41	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 12:41	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 12:41	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 12:41	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 12:41	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 12:41	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/19/18 12:41	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 12:41	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 12:41	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/19/18 12:41	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 12:41	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 12:41	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 12:41	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/19/18 12:41	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 12:41	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 12:41	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/19/18 12:41	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/19/18 12:41	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 12:41	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 12:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 12:41	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 12:41	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/19/18 12:41	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 12:41	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/19/18 12:41	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 12:41	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 12:41	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: Trip Blank **Lab ID: 30255282001** Collected: 06/07/18 00:01 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 12:41	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 12:41	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/19/18 12:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		06/19/18 12:41	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		06/19/18 12:41	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		06/19/18 12:41	2037-26-5	
Dibromofluoromethane (S)	105	%	80-120		1		06/19/18 12:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO62-PZM007 **Lab ID: 30255282002** Collected: 06/07/18 07:55 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 16:04	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 16:04	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 16:04	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 16:04	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 16:04	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 16:04	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 16:04	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/19/18 16:04	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 16:04	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 16:04	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 16:04	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 16:04	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 16:04	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/19/18 16:04	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/19/18 16:04	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/19/18 16:04	108-10-1	
Acetone	**6.5J**	ug/L	10.0	2.8	1		06/19/18 16:04	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 16:04	107-13-1	
Benzene	**98.0**	ug/L	1.0	0.24	1		06/19/18 16:04	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 16:04	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 16:04	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 16:04	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 16:04	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 16:04	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 16:04	56-23-5	
Chlorobenzene	**0.38J**	ug/L	1.0	0.15	1		06/19/18 16:04	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 16:04	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 16:04	67-66-3	
Chloromethane	**1.5**	ug/L	1.0	0.68	1		06/19/18 16:04	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 16:04	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 16:04	74-95-3	
Ethylbenzene	**5.6**	ug/L	1.0	0.31	1		06/19/18 16:04	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/19/18 16:04	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 16:04	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 16:04	75-09-2	
Naphthalene	**888**	ug/L	40.0	16.4	20		06/19/18 16:30	91-20-3	
Styrene	**16.5**	ug/L	1.0	0.17	1		06/19/18 16:04	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 16:04	127-18-4	
Toluene	**67.7**	ug/L	1.0	0.30	1		06/19/18 16:04	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 16:04	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 16:04	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/19/18 16:04	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 16:04	75-01-4	
Xylene (Total)	**108**	ug/L	3.0	0.78	1		06/19/18 16:04	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 16:04	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 16:04	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO62-PZM007 **Lab ID: 30255282002** Collected: 06/07/18 07:55 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 16:04	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 16:04	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/19/18 16:04	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	79-129		1		06/19/18 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		06/19/18 16:04	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		06/19/18 16:04	2037-26-5	
Dibromofluoromethane (S)	102	%	80-120		1		06/19/18 16:04	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO61-PZM007 **Lab ID: 30255282003** Collected: 06/07/18 08:15 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 16:55	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 16:55	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 16:55	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 16:55	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 16:55	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 16:55	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 16:55	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 16:55	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/20/18 09:55	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 16:55	95-50-1	
1,2-Dichloroethane	**0.96J**	ug/L	1.0	0.25	1		06/20/18 09:55	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 16:55	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 16:55	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 16:55	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 16:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 16:55	108-10-1	
Acetone	**27.0J**	ug/L	50.0	14.2	5		06/19/18 16:55	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 16:55	107-13-1	
Benzene	**42.2**	ug/L	1.0	0.24	1		06/20/18 09:55	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 16:55	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 16:55	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 16:55	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 16:55	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 16:55	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 16:55	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 16:55	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 16:55	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 16:55	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 16:55	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 16:55	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 16:55	74-95-3	
Ethylbenzene	**4.6**	ug/L	1.0	0.31	1		06/20/18 09:55	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 16:55	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/20/18 09:55	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 16:55	75-09-2	
Naphthalene	**66.3**	ug/L	2.0	0.82	1		06/20/18 09:55	91-20-3	
Styrene	**10.3**	ug/L	5.0	0.85	5		06/19/18 16:55	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 16:55	127-18-4	
Toluene	**52.6**	ug/L	1.0	0.30	1		06/20/18 09:55	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 16:55	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 16:55	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 16:55	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 16:55	75-01-4	
Xylene (Total)	**92.5**	ug/L	3.0	0.78	1		06/20/18 09:55	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 16:55	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 16:55	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO61-PZM007 **Lab ID: 30255282003** Collected: 06/07/18 08:15 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 16:55	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 16:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 16:55	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		06/20/18 09:55	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		06/20/18 09:55	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		06/20/18 09:55	2037-26-5	
Dibromofluoromethane (S)	101	%	80-120		1		06/20/18 09:55	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO43-PZM048 **Lab ID: 30255282004** Collected: 06/07/18 09:15 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/20/18 10:21	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/20/18 10:21	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/20/18 10:21	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/20/18 10:21	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/20/18 10:21	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/20/18 10:21	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/20/18 10:21	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/20/18 10:21	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/20/18 10:21	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/20/18 10:21	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/20/18 10:21	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/20/18 10:21	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/20/18 10:21	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/20/18 10:21	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/20/18 10:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/20/18 10:21	108-10-1	
Acetone	**4.2J**	ug/L	10.0	2.8	1		06/20/18 10:21	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/20/18 10:21	107-13-1	
Benzene	**8.7**	ug/L	1.0	0.24	1		06/20/18 10:21	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/20/18 10:21	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/20/18 10:21	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/20/18 10:21	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/20/18 10:21	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/20/18 10:21	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/20/18 10:21	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/20/18 10:21	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/20/18 10:21	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/20/18 10:21	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/20/18 10:21	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/20/18 10:21	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/20/18 10:21	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/20/18 10:21	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/20/18 10:21	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/20/18 10:21	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/20/18 10:21	75-09-2	
Naphthalene	**1.8J**	ug/L	2.0	0.82	1		06/20/18 10:21	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/20/18 10:21	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/20/18 10:21	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/20/18 10:21	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/20/18 10:21	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/20/18 10:21	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/20/18 10:21	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/20/18 10:21	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/20/18 10:21	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/20/18 10:21	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/20/18 10:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO43-PZM048 **Lab ID: 30255282004** Collected: 06/07/18 09:15 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/20/18 10:21	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/20/18 10:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/20/18 10:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		06/20/18 10:21	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		06/20/18 10:21	17060-07-0	
Toluene-d8 (S)	94	%	80-120		1		06/20/18 10:21	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		1		06/20/18 10:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO44-PZM048 **Lab ID: 30255282005** Collected: 06/07/18 09:30 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 13:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 13:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 13:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 13:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/19/18 13:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 13:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 13:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 13:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/19/18 13:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/19/18 13:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/19/18 13:06	108-10-1	
Acetone	**4.0J**	ug/L	10.0	2.8	1		06/19/18 13:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 13:06	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/19/18 13:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 13:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 13:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/19/18 13:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 13:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 13:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/19/18 13:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 13:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 13:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/19/18 13:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 13:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 13:06	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/19/18 13:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/19/18 13:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:06	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 13:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 13:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 13:06	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/19/18 13:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:06	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/19/18 13:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 13:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 13:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO44-PZM048 **Lab ID: 30255282005** Collected: 06/07/18 09:30 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 13:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 13:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/19/18 13:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	79-129		1		06/19/18 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		06/19/18 13:06	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/19/18 13:06	2037-26-5	
Dibromofluoromethane (S)	105	%	80-120		1		06/19/18 13:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO45-PZM047 **Lab ID: 30255282006** Collected: 06/07/18 10:27 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 13:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 13:32	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:32	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 13:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 13:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/19/18 13:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 13:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 13:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 13:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/19/18 13:32	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/19/18 13:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/19/18 13:32	108-10-1	
Acetone	**3.5J**	ug/L	10.0	2.8	1		06/19/18 13:32	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 13:32	107-13-1	
Benzene	**21.6**	ug/L	1.0	0.24	1		06/19/18 13:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 13:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:32	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 13:32	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/19/18 13:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 13:32	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 13:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/19/18 13:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 13:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 13:32	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/19/18 13:32	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 13:32	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 13:32	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/19/18 13:32	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/19/18 13:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:32	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 13:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 13:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 13:32	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/19/18 13:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:32	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/19/18 13:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 13:32	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 13:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO45-PZM047 **Lab ID: 30255282006** Collected: 06/07/18 10:27 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 13:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 13:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/19/18 13:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		1		06/19/18 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		06/19/18 13:32	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		06/19/18 13:32	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		06/19/18 13:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO46-PZM047 **Lab ID: 30255282007** Collected: 06/07/18 10:32 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 18:37	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:37	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 18:37	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:37	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 18:37	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:37	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 18:37	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 18:37	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:37	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 18:37	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 18:37	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:37	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 18:37	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 18:37	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 18:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 18:37	108-10-1	
Acetone	**22.3J**	ug/L	50.0	14.2	5		06/19/18 18:37	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 18:37	107-13-1	
Benzene	**4080**	ug/L	1000	240	1000		06/19/18 19:03	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 18:37	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:37	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:37	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 18:37	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:37	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 18:37	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 18:37	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 18:37	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 18:37	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 18:37	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:37	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 18:37	74-95-3	
Ethylbenzene	**57.6**	ug/L	5.0	1.6	5		06/19/18 18:37	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 18:37	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 18:37	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 18:37	75-09-2	
Naphthalene	**210**	ug/L	10.0	4.1	5		06/19/18 18:37	91-20-3	
Styrene	**9.1**	ug/L	5.0	0.85	5		06/19/18 18:37	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:37	127-18-4	
Toluene	**478**	ug/L	5.0	1.5	5		06/19/18 18:37	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 18:37	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 18:37	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 18:37	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 18:37	75-01-4	
Xylene (Total)	**528**	ug/L	15.0	3.9	5		06/19/18 18:37	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 18:37	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 18:37	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO46-PZM047 **Lab ID: 30255282007** Collected: 06/07/18 10:32 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 18:37	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 18:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 18:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		5		06/19/18 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		5		06/19/18 18:37	17060-07-0	
Toluene-d8 (S)	96	%	80-120		5		06/19/18 18:37	2037-26-5	
Dibromofluoromethane (S)	95	%	80-120		5		06/19/18 18:37	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO47-PZM046 **Lab ID: 30255282008** Collected: 06/07/18 10:41 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/20/18 11:23	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/20/18 11:23	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/20/18 11:23	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/20/18 11:23	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/20/18 11:23	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/20/18 11:23	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/20/18 11:23	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/20/18 11:23	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/20/18 11:23	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/20/18 11:23	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/20/18 11:23	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/20/18 11:23	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/20/18 11:23	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/20/18 11:23	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/20/18 11:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/20/18 11:23	108-10-1	
Acetone	**11.8**	ug/L	10.0	2.8	1		06/20/18 11:23	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/20/18 11:23	107-13-1	
Benzene	**211**	ug/L	1.0	0.24	1		06/20/18 11:23	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/20/18 11:23	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/20/18 11:23	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/20/18 11:23	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/20/18 11:23	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/20/18 11:23	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/20/18 11:23	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/20/18 11:23	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/20/18 11:23	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/20/18 11:23	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/20/18 11:23	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/20/18 11:23	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/20/18 11:23	74-95-3	
Ethylbenzene	**5.8**	ug/L	1.0	0.31	1		06/20/18 11:23	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/20/18 11:23	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/20/18 11:23	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/20/18 11:23	75-09-2	
Naphthalene	**54.8**	ug/L	2.0	0.82	1		06/20/18 11:23	91-20-3	
Styrene	**3.8**	ug/L	1.0	0.17	1		06/20/18 11:23	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/20/18 11:23	127-18-4	
Toluene	**91.3**	ug/L	1.0	0.30	1		06/20/18 11:23	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/20/18 11:23	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/20/18 11:23	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/20/18 11:23	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/20/18 11:23	75-01-4	
Xylene (Total)	**166**	ug/L	3.0	0.78	1		06/20/18 11:23	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/20/18 11:23	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/20/18 11:23	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO47-PZM046 **Lab ID: 30255282008** Collected: 06/07/18 10:41 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/20/18 11:23	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/20/18 11:23	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/20/18 11:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		06/20/18 11:23	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		06/20/18 11:23	17060-07-0	
Toluene-d8 (S)	97	%	80-120		1		06/20/18 11:23	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		1		06/20/18 11:23	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO48-PZM044 **Lab ID: 30255282009** Collected: 06/07/18 10:54 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 20:19	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:19	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 20:19	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:19	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 20:19	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:19	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 20:19	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 20:19	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:19	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 20:19	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 20:19	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:19	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 20:19	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 20:19	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 20:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 20:19	108-10-1	
Acetone	**20.2J**	ug/L	50.0	14.2	5		06/19/18 20:19	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 20:19	107-13-1	
Benzene	**53800**	ug/L	500	120	500		06/19/18 20:44	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 20:19	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:19	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:19	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 20:19	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:19	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 20:19	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 20:19	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 20:19	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 20:19	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 20:19	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:19	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 20:19	74-95-3	
Ethylbenzene	**188**	ug/L	5.0	1.6	5		06/19/18 20:19	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 20:19	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 20:19	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 20:19	75-09-2	
Naphthalene	**1100**	ug/L	10.0	4.1	5		06/19/18 20:19	91-20-3	
Styrene	**244**	ug/L	5.0	0.85	5		06/19/18 20:19	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:19	127-18-4	
Toluene	**31600**	ug/L	500	150	500		06/19/18 20:44	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 20:19	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 20:19	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 20:19	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 20:19	75-01-4	
Xylene (Total)	**1610**	ug/L	15.0	3.9	5		06/19/18 20:19	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 20:19	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 20:19	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO48-PZM044 **Lab ID: 30255282009** Collected: 06/07/18 10:54 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 20:19	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 20:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 20:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	79-129		5		06/19/18 20:19	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120		5		06/19/18 20:19	17060-07-0	
Toluene-d8 (S)	98	%	80-120		5		06/19/18 20:19	2037-26-5	
Dibromofluoromethane (S)	96	%	80-120		5		06/19/18 20:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO30-PZM015 **Lab ID: 30255282010** Collected: 06/07/18 15:35 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 21:10	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:10	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 21:10	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:10	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/19/18 21:10	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:10	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/19/18 21:10	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/19/18 21:10	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:10	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/19/18 21:10	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 21:10	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:10	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/19/18 21:10	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/19/18 21:10	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/19/18 21:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/19/18 21:10	108-10-1	
Acetone	**19.3J**	ug/L	50.0	14.2	5		06/19/18 21:10	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/19/18 21:10	107-13-1	
Benzene	**72700**	ug/L	500	120	500		06/19/18 21:35	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 21:10	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:10	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:10	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/19/18 21:10	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:10	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/19/18 21:10	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/19/18 21:10	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/19/18 21:10	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/19/18 21:10	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/19/18 21:10	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:10	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 21:10	74-95-3	
Ethylbenzene	**95.4**	ug/L	5.0	1.6	5		06/19/18 21:10	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/19/18 21:10	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 21:10	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/19/18 21:10	75-09-2	
Naphthalene	**1980**	ug/L	10.0	4.1	5		06/19/18 21:10	91-20-3	
Styrene	**15.3**	ug/L	5.0	0.85	5		06/19/18 21:10	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:10	127-18-4	
Toluene	**5020**	ug/L	500	150	500		06/19/18 21:35	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/19/18 21:10	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/19/18 21:10	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/19/18 21:10	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/19/18 21:10	75-01-4	
Xylene (Total)	**1290**	ug/L	15.0	3.9	5		06/19/18 21:10	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/19/18 21:10	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/19/18 21:10	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO30-PZM015 **Lab ID: 30255282010** Collected: 06/07/18 15:35 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/19/18 21:10	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/19/18 21:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/19/18 21:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		5		06/19/18 21:10	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	80-120		5		06/19/18 21:10	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		06/19/18 21:10	2037-26-5	
Dibromofluoromethane (S)	93	%	80-120		5		06/19/18 21:10	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO30-PZM060 **Lab ID: 30255282011** Collected: 06/07/18 16:15 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/19/18 13:19	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 13:19	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:19	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:19	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/19/18 13:19	75-34-3	MH
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:19	75-35-4	MH
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/19/18 13:19	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/19/18 13:19	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:19	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/19/18 13:19	95-50-1	MH
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 13:19	107-06-2	MH
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/19/18 13:19	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/19/18 13:19	106-46-7	MH
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/19/18 13:19	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/19/18 13:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/19/18 13:19	108-10-1	
Acetone	**4.5J**	ug/L	10.0	2.8	1		06/19/18 13:19	67-64-1	R1
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/19/18 13:19	107-13-1	
Benzene	**16.9**	ug/L	1.0	0.24	1		06/19/18 13:19	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:19	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/19/18 13:19	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:19	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/19/18 13:19	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:19	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/19/18 13:19	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/19/18 13:19	108-90-7	MH
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/19/18 13:19	75-00-3	MH,R1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 13:19	67-66-3	MH
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/19/18 13:19	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/19/18 13:19	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/19/18 13:19	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:19	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/19/18 13:19	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/19/18 13:19	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/19/18 13:19	75-09-2	R1
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/19/18 13:19	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/19/18 13:19	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/19/18 13:19	127-18-4	MH
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/19/18 13:19	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/19/18 13:19	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/19/18 13:19	75-69-4	MH
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/19/18 13:19	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/19/18 13:19	75-01-4	MH
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/19/18 13:19	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/19/18 13:19	156-59-2	MH
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/19/18 13:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255282

Sample: CO30-PZM060 **Lab ID: 30255282011** Collected: 06/07/18 16:15 Received: 06/08/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/19/18 13:19	156-60-5	MH
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/19/18 13:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/19/18 13:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		1		06/19/18 13:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		06/19/18 13:19	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		06/19/18 13:19	2037-26-5	
Dibromofluoromethane (S)	104	%	80-120		1		06/19/18 13:19	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

QC Batch: 302682 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30255282011

METHOD BLANK: 1481224 Matrix: Water
Associated Lab Samples: 30255282011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/19/18 12:28	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:28	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:28	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/19/18 12:28	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/19/18 12:28	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/19/18 12:28	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/19/18 12:28	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/19/18 12:28	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/19/18 12:28	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/19/18 12:28	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/19/18 12:28	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/19/18 12:28	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/19/18 12:28	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/19/18 12:28	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/19/18 12:28	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/19/18 12:28	
Acetone	ug/L	10.0 U	10.0	2.8	06/19/18 12:28	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/19/18 12:28	
Benzene	ug/L	1.0 U	1.0	0.24	06/19/18 12:28	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:28	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/19/18 12:28	
Bromoform	ug/L	1.0 U	1.0	0.32	06/19/18 12:28	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/19/18 12:28	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/19/18 12:28	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/19/18 12:28	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/19/18 12:28	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/19/18 12:28	
Chloroform	ug/L	1.0 U	1.0	0.30	06/19/18 12:28	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/19/18 12:28	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/19/18 12:28	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/19/18 12:28	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/19/18 12:28	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/19/18 12:28	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/19/18 12:28	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/19/18 12:28	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/19/18 12:28	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/19/18 12:28	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/19/18 12:28	
Styrene	ug/L	1.0 U	1.0	0.17	06/19/18 12:28	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/19/18 12:28	
Toluene	ug/L	1.0 U	1.0	0.30	06/19/18 12:28	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

METHOD BLANK: 1481224 Matrix: Water
Associated Lab Samples: 30255282011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/19/18 12:28	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/19/18 12:28	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/19/18 12:28	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/19/18 12:28	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:28	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/19/18 12:28	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/19/18 12:28	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/19/18 12:28	
1,2-Dichloroethane-d4 (S)	%	105	80-120		06/19/18 12:28	
4-Bromofluorobenzene (S)	%	102	79-129		06/19/18 12:28	
Dibromofluoromethane (S)	%	101	80-120		06/19/18 12:28	
Toluene-d8 (S)	%	95	80-120		06/19/18 12:28	

LABORATORY CONTROL SAMPLE: 1481225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.3	97	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	95	65-127	
1,1,2-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	20	19.1	96	70-130	
1,1-Dichloroethene	ug/L	20	20.0	100	70-130	
1,2,3-Trichloropropane	ug/L	20	20.3	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.2	96	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.3	97	70-130	
1,2-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloropropane	ug/L	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	20	19.5	97	70-130	
2-Butanone (MEK)	ug/L	20	20.5	103	72-170	
2-Hexanone	ug/L	20	19.9	100	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	100	66-150	
Acetone	ug/L	20	21.5	107	30-179	
Acrylonitrile	ug/L	20	21.2	106	48-172	
Benzene	ug/L	20	18.8	94	70-130	
Bromochloromethane	ug/L	20	19.0	95	70-130	
Bromodichloromethane	ug/L	20	18.5	93	70-130	
Bromoform	ug/L	20	19.1	95	70-130	
Bromomethane	ug/L	20	22.6	113	47-174	
Carbon disulfide	ug/L	20	19.4	97	43-133	
Carbon tetrachloride	ug/L	20	19.9	99	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	20.8	104	67-139	
Chloroform	ug/L	20	19.0	95	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

LABORATORY CONTROL SAMPLE: 1481225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.8	89	57-138	
cis-1,2-Dichloroethene	ug/L	20	19.5	98	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	70-130	
Dibromochloromethane	ug/L	20	18.8	94	70-130	
Dibromomethane	ug/L	20	19.8	99	70-130	
Ethylbenzene	ug/L	20	18.9	94	70-130	
Iodomethane	ug/L	20	20.6J	103	10-175	
Methyl-tert-butyl ether	ug/L	20	19.9	99	70-130	
Methylene Chloride	ug/L	20	19.7	99	55-144	
Naphthalene	ug/L	20	19.9	99	70-130	
Styrene	ug/L	20	18.9	95	70-130	
Tetrachloroethene	ug/L	20	19.2	96	70-130	
Toluene	ug/L	20	18.2	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	19.7	98	27-116	
Trichloroethene	ug/L	20	19.2	96	70-130	
Trichlorofluoromethane	ug/L	20	22.9	115	60-148	
Vinyl acetate	ug/L	20	21.1	106	30-181	
Vinyl chloride	ug/L	20	19.6	98	70-130	
Xylene (Total)	ug/L	60	56.7	95	70-130	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			103	79-129	
Dibromofluoromethane (S)	%			104	80-120	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481915 1481916

Parameter	Units	30255282011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.1	23.8	96	119	51-124	22	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.5	24.4	98	122	79-129	22	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.9	22.4	89	112	57-118	22	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.6	22.9	88	114	68-117	26	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.1	24.4	96	122	74-119	24	30	MH
1,1-Dichloroethene	ug/L	1.0 U	20	20	20.6	27.0	103	135	63-126	27	30	MH
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.2	24.6	96	123	56-129	25	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	17.2	21.3	86	107	53-120	21	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.4	23.4	92	117	69-124	24	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.3	24.6	97	123	72-119	24	30	MH
1,2-Dichloroethane	ug/L	1.0 U	20	20	18.6	23.3	93	117	69-116	22	30	MH
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.4	23.5	92	117	63-118	24	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.5	25.2	97	126	72-118	26	30	MH
2-Butanone (MEK)	ug/L	10.0 U	20	20	19.4	23.8	97	119	72-168	20	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1481915			1481916							
Parameter	Units	30255282011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	19.0	24.5	95	123	66-143	25	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	20.3	25.4	101	127	67-145	23	30	
Acetone	ug/L	4.5J	20	20	22.2	31.2	88	134	15-175	34	30	R1
Acrylonitrile	ug/L	4.0 U	20	20	16.8	22.5	84	112	36-165	29	30	
Benzene	ug/L	16.9	20	20	35.7	40.1	94	116	67-121	12	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.7	24.2	94	121	62-128	26	30	
Bromodichloromethane	ug/L	1.0 U	20	20	18.4	23.8	92	119	66-127	26	30	
Bromoform	ug/L	1.0 U	20	20	16.4	20.8	82	104	71-127	24	30	
Bromomethane	ug/L	1.0 U	20	20	16.3	19.3	82	96	10-156	16	30	
Carbon disulfide	ug/L	1.0 U	20	20	14.8	19.0	74	95	45-131	25	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	20.2	26.0	101	130	69-134	25	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.7	25.0	98	125	69-119	24	30	MH
Chloroethane	ug/L	1.0 U	20	20	21.8	32.2	109	161	60-156	38	30	MH,R1
Chloroform	ug/L	1.0 U	20	20	18.4	23.2	92	116	69-115	23	30	MH
Chloromethane	ug/L	1.0 U	20	20	20.9	26.2	105	131	52-145	22	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.3	24.9	97	125	65-120	25	30	MH
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.4	23.1	92	116	57-125	23	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.7	22.1	88	111	64-131	22	30	
Dibromomethane	ug/L	1.0 U	20	20	19.6	25.3	98	126	56-133	25	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.8	24.8	99	124	70-127	22	30	
Iodomethane	ug/L	50.0 U	20	20	12.1J	11.4J	60	57	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	20.5	26.2	103	131	79-135	24	30	
Methylene Chloride	ug/L	1.0 U	20	20	17.3	23.9	87	120	54-133	32	30	R1
Naphthalene	ug/L	2.0 U	20	20	19.7	24.5	98	123	62-131	22	30	
Styrene	ug/L	1.0 U	20	20	18.9	24.1	94	121	65-121	24	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.7	25.8	104	129	77-125	22	30	MH
Toluene	ug/L	1.0 U	20	20	19.0	24.3	95	121	77-125	24	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.2	24.3	96	122	70-119	23	30	MH
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.0	22.1	85	110	52-125	26	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	10.3	13.1	52	65	13-100	24	30	
Trichloroethene	ug/L	1.0 U	20	20	19.1	24.8	95	124	74-128	26	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	30.7	39.0	153	195	54-164	24	30	MH
Vinyl acetate	ug/L	10.0 U	20	20	18.5	24.6	92	123	15-173	29	30	
Vinyl chloride	ug/L	1.0 U	20	20	23.3	28.9	116	145	60-131	22	30	MH
Xylene (Total)	ug/L	3.0 U	60	60	58.8	75.1	98	125	69-128	24	30	
1,2-Dichloroethane-d4 (S)	%						104	104	80-120			
4-Bromofluorobenzene (S)	%						102	99	79-129			
Dibromofluoromethane (S)	%						102	101	80-120			
Toluene-d8 (S)	%						98	97	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

QC Batch: 302687 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30255282001, 30255282002, 30255282003, 30255282004, 30255282005, 30255282006, 30255282007, 30255282008, 30255282009, 30255282010

METHOD BLANK: 1481231 Matrix: Water
Associated Lab Samples: 30255282001, 30255282002, 30255282003, 30255282004, 30255282005, 30255282006, 30255282007, 30255282008, 30255282009, 30255282010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/19/18 12:15	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:15	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:15	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/19/18 12:15	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/19/18 12:15	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/19/18 12:15	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/19/18 12:15	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/19/18 12:15	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/19/18 12:15	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/19/18 12:15	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/19/18 12:15	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/19/18 12:15	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/19/18 12:15	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/19/18 12:15	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/19/18 12:15	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/19/18 12:15	
Acetone	ug/L	10.0 U	10.0	2.8	06/19/18 12:15	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/19/18 12:15	
Benzene	ug/L	1.0 U	1.0	0.24	06/19/18 12:15	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/19/18 12:15	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/19/18 12:15	
Bromoform	ug/L	1.0 U	1.0	0.32	06/19/18 12:15	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/19/18 12:15	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/19/18 12:15	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/19/18 12:15	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/19/18 12:15	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/19/18 12:15	
Chloroform	ug/L	1.0 U	1.0	0.30	06/19/18 12:15	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/19/18 12:15	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/19/18 12:15	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/19/18 12:15	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/19/18 12:15	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/19/18 12:15	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/19/18 12:15	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/19/18 12:15	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/19/18 12:15	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/19/18 12:15	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/19/18 12:15	
Styrene	ug/L	1.0 U	1.0	0.17	06/19/18 12:15	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/19/18 12:15	

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

METHOD BLANK: 1481231 Matrix: Water

Associated Lab Samples: 30255282001, 30255282002, 30255282003, 30255282004, 30255282005, 30255282006, 30255282007, 30255282008, 30255282009, 30255282010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	06/19/18 12:15	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/19/18 12:15	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/19/18 12:15	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/19/18 12:15	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/19/18 12:15	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/19/18 12:15	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/19/18 12:15	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/19/18 12:15	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/19/18 12:15	
1,2-Dichloroethane-d4 (S)	%	109	80-120		06/19/18 12:15	
4-Bromofluorobenzene (S)	%	102	79-129		06/19/18 12:15	
Dibromofluoromethane (S)	%	102	80-120		06/19/18 12:15	
Toluene-d8 (S)	%	95	80-120		06/19/18 12:15	

LABORATORY CONTROL SAMPLE: 1481232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.2	96	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	65-127	
1,1,2-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	20	19.7	99	70-130	
1,1-Dichloroethene	ug/L	20	19.9	99	70-130	
1,2,3-Trichloropropane	ug/L	20	19.5	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.6	93	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	98	70-130	
1,2-Dichlorobenzene	ug/L	20	19.5	98	70-130	
1,2-Dichloroethane	ug/L	20	19.3	97	70-130	
1,2-Dichloropropane	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	20	19.4	97	72-170	
2-Hexanone	ug/L	20	19.3	96	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.1	96	66-150	
Acetone	ug/L	20	20.5	103	30-179	
Acrylonitrile	ug/L	20	20.5	103	48-172	
Benzene	ug/L	20	19.4	97	70-130	
Bromochloromethane	ug/L	20	20.7	103	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	18.9	94	70-130	
Bromomethane	ug/L	20	24.5	122	47-174	
Carbon disulfide	ug/L	20	19.6	98	43-133	
Carbon tetrachloride	ug/L	20	20.4	102	56-143	
Chlorobenzene	ug/L	20	19.3	97	70-130	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

LABORATORY CONTROL SAMPLE: 1481232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	19.3	97	67-139	
Chloroform	ug/L	20	20.4	102	70-130	
Chloromethane	ug/L	20	18.4	92	57-138	
cis-1,2-Dichloroethene	ug/L	20	19.3	97	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	19.3	97	70-130	
Dibromomethane	ug/L	20	20.3	102	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	20	18.0J	90	10-175	
Methyl-tert-butyl ether	ug/L	20	20.1	101	70-130	
Methylene Chloride	ug/L	20	20.8	104	55-144	
Naphthalene	ug/L	20	20.1	101	70-130	
Styrene	ug/L	20	19.5	97	70-130	
Tetrachloroethene	ug/L	20	19.4	97	70-130	
Toluene	ug/L	20	18.8	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	18.6	93	27-116	
Trichloroethene	ug/L	20	19.7	98	70-130	
Trichlorofluoromethane	ug/L	20	22.3	112	60-148	
Vinyl acetate	ug/L	20	19.5	98	30-181	
Vinyl chloride	ug/L	20	20.4	102	70-130	
Xylene (Total)	ug/L	60	57.5	96	70-130	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			103	79-129	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481897 1481898

Parameter	Units	30255282005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.2	17.4	91	87	51-124	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.3	18.2	96	91	79-129	6	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.6	16.8	88	84	57-118	5	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.7	17.5	89	88	68-117	1	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.9	18.0	94	90	74-119	5	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	20.6	19.3	103	96	63-126	7	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	18.2	17.5	91	88	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.8	15.2	79	76	53-120	4	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.1	18.3	95	92	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.4	18.6	97	93	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.1	18.4	95	92	69-116	4	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.8	18.1	94	91	63-118	4	30	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255282

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481897 1481898

Parameter	Units	30255282005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.3	18.5	97	93	72-118	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.6	18.8	93	94	72-168	1	30	
2-Hexanone	ug/L	10.0 U	20	20	17.1	16.6	86	83	66-143	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.4	17.8	92	89	67-145	3	30	
Acetone	ug/L	4.0J	20	20	22.9	20.7	94	83	15-175	10	30	
Acrylonitrile	ug/L	4.0 U	20	20	18.7	18.2	93	91	36-165	3	30	
Benzene	ug/L	1.0 U	20	20	19.2	18.1	96	90	67-121	6	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.7	19.8	104	99	62-128	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.7	16.5	83	82	66-127	1	30	
Bromoform	ug/L	1.0 U	20	20	14.6	14.3	73	71	71-127	2	30	
Bromomethane	ug/L	1.0 U	20	20	19.3	19.4	96	97	10-156	1	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.0	15.6	80	78	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.9	18.6	100	93	69-134	7	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.2	18.2	96	91	69-119	5	30	
Chloroethane	ug/L	1.0 U	20	20	19.3	18.5	97	93	60-156	4	30	
Chloroform	ug/L	1.0 U	20	20	19.8	18.9	99	95	69-115	4	30	
Chloromethane	ug/L	1.0 U	20	20	14.7	14.1	74	71	52-145	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	18.6	18.0	93	90	65-120	3	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.4	16.4	87	82	57-125	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.0	16.1	85	80	64-131	6	30	
Dibromomethane	ug/L	1.0 U	20	20	19.5	18.6	98	93	56-133	5	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.2	18.1	96	90	70-127	6	30	
Iodomethane	ug/L	50.0 U	20	20	14.7J	17.6J	73	88	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	19.2	18.7	96	94	79-135	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.0	18.8	100	94	54-133	6	30	
Naphthalene	ug/L	2.0 U	20	20	18.5	18.0	92	90	62-131	3	30	
Styrene	ug/L	1.0 U	20	20	18.7	18.0	93	90	65-121	3	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.2	19.0	101	95	77-125	6	30	
Toluene	ug/L	1.0 U	20	20	19.3	17.9	96	89	77-125	8	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.3	18.1	97	91	70-119	7	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.6	16.7	88	83	52-125	5	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	12.2	11.9	61	60	13-100	2	30	
Trichloroethene	ug/L	1.0 U	20	20	19.9	18.5	100	93	74-128	7	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	24.7	23.2	123	116	54-164	6	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.7	16.3	84	81	15-173	3	30	
Vinyl chloride	ug/L	1.0 U	20	20	18.7	17.6	93	88	60-131	6	30	
Xylene (Total)	ug/L	3.0 U	60	60	58.1	54.4	97	91	69-128	7	30	
1,2-Dichloroethane-d4 (S)	%						102	100	80-120			
4-Bromofluorobenzene (S)	%						103	102	79-129			
Dibromofluoromethane (S)	%						99	101	80-120			
Toluene-d8 (S)	%						99	97	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30255282

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
R1	RPD value was outside control limits.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30255282

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30255282001	**Trip Blank**	EPA 8260B	302687		
30255282002	**CO62-PZM007**	EPA 8260B	302687		
30255282003	**CO61-PZM007**	EPA 8260B	302687		
30255282004	**CO43-PZM048**	EPA 8260B	302687		
30255282005	**CO44-PZM048**	EPA 8260B	302687		
30255282006	**CO45-PZM047**	EPA 8260B	302687		
30255282007	**CO46-PZM047**	EPA 8260B	302687		
30255282008	**CO47-PZM046**	EPA 8260B	302687		
30255282009	**CO48-PZM044**	EPA 8260B	302687		
30255282010	**CO30-PZM015**	EPA 8260B	302687		
30255282011	**CO30-PZM060**	EPA 8260B	302682		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30255282

Section A
Required Client Information:

Company: EnviroAnalytics Group
Address: 1600 Sparrows Point Blvd, Suite B2
Sparrows Point, MD 21219
Email To: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 Fax:
Requested Due Date/TAT: 5 Day

Section B
Required Project Information:

Report To: James Calenda
Copy To: Stewart Kabis
Purchase Order No.: EAG-SPT-6989
Project Name: COA IM GW Sampling
Project Number: 170384m-1

Section C
Invoice Information:

Attention: Laura Sargent
Company Name: EnviroAnalytics Group
Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager: Samantha Bayura
Pace Profile #:

Page: of

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

WO# : 30255282

30255282

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	VOCs	Residual Chlorine	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/7/18	—		2				2							X		001
2	C062-PZM007	WT	G				755		3				3						X			002
3	C061-PZM007	WT	G				815		3				3						X			003
4	C043-PZM048	WT	G				915		3				3						X			004
5	C044-PZM048	WT	G				930		3				3						X			005
6	C045-PZM047	WT	G				1027		3				3						X			006
7	C046-PZM047	WT	G				1032		3				3						X			007
8	C047-PZM046	WT	G				1041		3				3						X			008
9	C048-PZM044	WT	G				1054		3				3						X			009
10	C030-PZM015	WT	G				1535		3				3						X			010
11	C030-PZM060	WT	G				1615		3				3						Y			011
12									32													

ADDITIONAL COMMENTS

No okgs

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Lisa Perrin	6/7/18	1700	A Bannighoff / Pace	6/7/18	1700
A Bannighoff / Pace	6/7/18	2025	Lisa Perrin	6/8	2045
Lisa Perrin	6/8/18	0025	Kyra Mulroney / Pace	6/8/18	0025

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.8	Y	N	Y

SAMPLER NAME AND SIGNATURE: Lisa Perrin
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: Lisa Perrin
DATE Signed (MM/DD/YY): 6/7/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Spanaus Project # 30255282

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label SRF

LIMS Login KRM

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 2.7 °C Correction Factor: +0.1 °C Final Temp: 2.8 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# N/A	Date and Initials of person examining contents: KRM 6/8/18
Chain of Custody Present:	✓			1.	
Chain of Custody Filled Out:	✓			2.	
Chain of Custody Relinquished:	✓			3.	
Sampler Name & Signature on COC:	✓			4.	
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.	
Samples Arrived within Hold Time:	✓			6.	
Short Hold Time Analysis (<72hr remaining):		✓		7.	
Rush Turn Around Time Requested:	✓			8.	
Sufficient Volume:	✓			9.	
Correct Containers Used: -Pace Containers Used:	✓			10.	
Containers Intact:	✓			11.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenolics			✓ ✓	16. Initial when completed KRM Date/time of preservation Lot # of added preservative	
Headspace in VOA Vials (>6mm):		✓		17.	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 25, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30255485

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30255485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30255485001	**Trip Blank**	Water	06/08/18 00:01	06/09/18 00:30
30255485002	**CO27-PZM046**	Water	06/08/18 08:50	06/09/18 00:30
30255485003	**CO27-PZM012**	Water	06/08/18 09:15	06/09/18 00:30
30255485004	**CO40-PZM008**	Water	06/08/18 09:55	06/09/18 00:30
30255485005	**CO02-PZM006**	Water	06/08/18 10:55	06/09/18 00:30
30255485006	**CO18-PZM006**	Water	06/08/18 11:35	06/09/18 00:30
30255485007	**CO93-PZMXXX**	Water	06/08/18 13:05	06/09/18 00:30
30255485008	**CO104-PZMXXX**	Water	06/08/18 13:50	06/09/18 00:30
30255485009	**CO103-PZMXXX**	Water	06/08/18 14:30	06/09/18 00:30
30255485010	**CO102-PZMXXX**	Water	06/08/18 15:25	06/09/18 00:30

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30255485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30255485001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30255485002	**CO27-PZM046**	EPA 8260B	MAK	53	PASI-PA
30255485003	**CO27-PZM012**	EPA 8260B	MAK	53	PASI-PA
30255485004	**CO40-PZM008**	EPA 8260B	MAK	53	PASI-PA
30255485005	**CO02-PZM006**	EPA 8260B	MAK	53	PASI-PA
30255485006	**CO18-PZM006**	EPA 8260B	MAK	53	PASI-PA
30255485007	**CO93-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30255485008	**CO104-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30255485009	**CO103-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30255485010	**CO102-PZMXXX**	EPA 8260B	MAK	53	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: Trip Blank **Lab ID: 30255485001** Collected: 06/08/18 00:01 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/21/18 16:49	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/18 16:49	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 16:49	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 16:49	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/18 16:49	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 16:49	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/18 16:49	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		06/21/18 16:49	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 16:49	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/18 16:49	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/18 16:49	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/18 16:49	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 16:49	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		06/21/18 16:49	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		06/21/18 16:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		06/21/18 16:49	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		06/21/18 16:49	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/18 16:49	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/21/18 16:49	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 16:49	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/18 16:49	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 16:49	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/18 16:49	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 16:49	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 16:49	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/18 16:49	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/18 16:49	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/18 16:49	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/18 16:49	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/18 16:49	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/18 16:49	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 16:49	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		06/21/18 16:49	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/18 16:49	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/18 16:49	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/21/18 16:49	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/18 16:49	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 16:49	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/21/18 16:49	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/18 16:49	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/18 16:49	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		06/21/18 16:49	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 16:49	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		06/21/18 16:49	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/18 16:49	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/18 16:49	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: Trip Blank **Lab ID: 30255485001** Collected: 06/08/18 00:01 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/21/18 16:49	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/18 16:49	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		06/21/18 16:49	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		06/21/18 16:49	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	80-120		1		06/21/18 16:49	17060-07-0	
Toluene-d8 (S)	95	%	80-120		1		06/21/18 16:49	2037-26-5	
Dibromofluoromethane (S)	100	%	80-120		1		06/21/18 16:49	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO27-PZM046 **Lab ID: 30255485002** Collected: 06/08/18 08:50 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 22:16	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:16	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:16	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:16	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/18 22:16	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:16	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/18 22:16	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/18 22:16	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:16	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/18 22:16	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:16	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:16	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:16	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/18 22:16	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/18 22:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/18 22:16	108-10-1	
Acetone	**20.5J**	ug/L	50.0	14.2	5		06/21/18 22:16	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/18 22:16	107-13-1	
Benzene	**214000**	ug/L	1000	240	1000		06/21/18 22:41	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:16	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:16	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:16	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/18 22:16	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:16	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:16	56-23-5	
Chlorobenzene	**2.4J**	ug/L	5.0	0.75	5		06/21/18 22:16	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 22:16	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/18 22:16	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/18 22:16	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:16	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 22:16	74-95-3	
Ethylbenzene	**703**	ug/L	5.0	1.6	5		06/21/18 22:16	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/18 22:16	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:16	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/18 22:16	75-09-2	
Naphthalene	**15800**	ug/L	2000	820	1000		06/21/18 22:41	91-20-3	
Styrene	**123**	ug/L	5.0	0.85	5		06/21/18 22:16	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:16	127-18-4	
Toluene	**33200**	ug/L	1000	300	1000		06/21/18 22:41	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 22:16	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:16	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/18 22:16	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:16	75-01-4	
Xylene (Total)	**8260**	ug/L	3000	780	1000		06/21/18 22:41	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/18 22:16	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:16	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO27-PZM046 **Lab ID: 30255485002** Collected: 06/08/18 08:50 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/21/18 22:16	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/18 22:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/18 22:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	79-129		5		06/21/18 22:16	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		5		06/21/18 22:16	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		06/21/18 22:16	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		06/21/18 22:16	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO27-PZM012 **Lab ID: 30255485003** Collected: 06/08/18 09:15 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 23:06	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:06	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 23:06	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:06	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/18 23:06	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:06	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/18 23:06	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/18 23:06	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:06	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/18 23:06	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 23:06	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:06	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:06	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/18 23:06	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/18 23:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/18 23:06	108-10-1	
Acetone	**58.1**	ug/L	50.0	14.2	5		06/21/18 23:06	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/18 23:06	107-13-1	
Benzene	**3180**	ug/L	100	24.0	100		06/22/18 00:21	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 23:06	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:06	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:06	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/18 23:06	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:06	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 23:06	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/18 23:06	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 23:06	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/18 23:06	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/18 23:06	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:06	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 23:06	74-95-3	
Ethylbenzene	**20.7**	ug/L	5.0	1.6	5		06/21/18 23:06	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/18 23:06	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 23:06	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/18 23:06	75-09-2	
Naphthalene	**176**	ug/L	10.0	4.1	5		06/21/18 23:06	91-20-3	
Styrene	**16.3**	ug/L	5.0	0.85	5		06/21/18 23:06	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:06	127-18-4	
Toluene	**410**	ug/L	5.0	1.5	5		06/21/18 23:06	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 23:06	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:06	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/18 23:06	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:06	75-01-4	
Xylene (Total)	**160**	ug/L	15.0	3.9	5		06/21/18 23:06	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/18 23:06	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 23:06	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO27-PZM012 **Lab ID: 30255485003** Collected: 06/08/18 09:15 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/21/18 23:06	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/18 23:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/18 23:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		06/21/18 23:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		5		06/21/18 23:06	17060-07-0	
Toluene-d8 (S)	95	%	80-120		5		06/21/18 23:06	2037-26-5	
Dibromofluoromethane (S)	98	%	80-120		5		06/21/18 23:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO40-PZM008 **Lab ID: 30255485004** Collected: 06/08/18 09:55 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/21/18 21:38	630-20-6	M5
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/18 21:38	71-55-6	M5
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 21:38	79-34-5	M5
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 21:38	79-00-5	M5
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/18 21:38	75-34-3	M5
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 21:38	75-35-4	M5
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/18 21:38	96-18-4	M5
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/18 21:38	96-12-8	M5
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 21:38	106-93-4	M5
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/18 21:38	95-50-1	M5
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/18 21:38	107-06-2	M5
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/18 21:38	78-87-5	M5
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 21:38	106-46-7	M5
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/18 21:38	78-93-3	M5
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/18 21:38	591-78-6	M5
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/18 21:38	108-10-1	M5
Acetone	**7.4J**	ug/L	10.0	2.8	1		06/21/18 21:38	67-64-1	M5
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/18 21:38	107-13-1	M5
Benzene	**464**	ug/L	5.0	1.2	5		06/22/18 02:26	71-43-2	M5
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 21:38	74-97-5	M5
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/18 21:38	75-27-4	M5
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 21:38	75-25-2	M5
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/18 21:38	74-83-9	CH,M5
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 21:38	75-15-0	M5
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 21:38	56-23-5	M5
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/18 21:38	108-90-7	M5
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/18 21:38	75-00-3	M5
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/18 21:38	67-66-3	M5
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/18 21:38	74-87-3	M5
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/18 21:38	124-48-1	M5
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/18 21:38	74-95-3	M5
Ethylbenzene	**1.6**	ug/L	1.0	0.31	1		06/21/18 21:38	100-41-4	M5
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/18 21:38	74-88-4	M5
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/18 21:38	1634-04-4	M5
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/18 21:38	75-09-2	M5
Naphthalene	**160**	ug/L	2.0	0.82	1		06/21/18 21:38	91-20-3	M5
Styrene	**1.0**	ug/L	1.0	0.17	1		06/21/18 21:38	100-42-5	M5
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 21:38	127-18-4	M5
Toluene	**29.8**	ug/L	1.0	0.30	1		06/21/18 21:38	108-88-3	M5
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/18 21:38	79-01-6	M5
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/18 21:38	75-69-4	M5
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/18 21:38	108-05-4	M5
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 21:38	75-01-4	M5
Xylene (Total)	**16.8**	ug/L	3.0	0.78	1		06/21/18 21:38	1330-20-7	M5
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/18 21:38	156-59-2	M5
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/18 21:38	10061-01-5	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO40-PZM008 **Lab ID: 30255485004** Collected: 06/08/18 09:55 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/21/18 21:38	156-60-5	M5
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/18 21:38	10061-02-6	M5
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/18 21:38	110-57-6	M5
Surrogates									
4-Bromofluorobenzene (S)	99	%	79-129		1		06/21/18 21:38	460-00-4	M5
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		06/21/18 21:38	17060-07-0	M5
Toluene-d8 (S)	97	%	80-120		1		06/21/18 21:38	2037-26-5	M5
Dibromofluoromethane (S)	101	%	80-120		1		06/21/18 21:38	1868-53-7	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO02-PZM006 **Lab ID: 30255485005** Collected: 06/08/18 10:55 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/22/18 00:46	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:46	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/22/18 00:46	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:46	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/22/18 00:46	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:46	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/22/18 00:46	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/22/18 00:46	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:46	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/22/18 00:46	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/22/18 00:46	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:46	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:46	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/22/18 00:46	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/22/18 00:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/22/18 00:46	108-10-1	
Acetone	**37.3J**	ug/L	50.0	14.2	5		06/22/18 00:46	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/22/18 00:46	107-13-1	
Benzene	**63100**	ug/L	1000	240	1000		06/22/18 01:11	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/22/18 00:46	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:46	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:46	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/22/18 00:46	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:46	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/22/18 00:46	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/22/18 00:46	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/22/18 00:46	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/22/18 00:46	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/22/18 00:46	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:46	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/22/18 00:46	74-95-3	
Ethylbenzene	**202**	ug/L	5.0	1.6	5		06/22/18 00:46	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		06/22/18 00:46	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/22/18 00:46	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/22/18 00:46	75-09-2	
Naphthalene	**164**	ug/L	10.0	4.1	5		06/22/18 00:46	91-20-3	
Styrene	**3.1J**	ug/L	5.0	0.85	5		06/22/18 00:46	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:46	127-18-4	
Toluene	**33.3**	ug/L	5.0	1.5	5		06/22/18 00:46	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/22/18 00:46	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:46	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/22/18 00:46	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:46	75-01-4	
Xylene (Total)	**139**	ug/L	15.0	3.9	5		06/22/18 00:46	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/22/18 00:46	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/22/18 00:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO02-PZM006 **Lab ID: 30255485005** Collected: 06/08/18 10:55 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/22/18 00:46	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/22/18 00:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/22/18 00:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		06/22/18 00:46	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		5		06/22/18 00:46	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		06/22/18 00:46	2037-26-5	
Dibromofluoromethane (S)	99	%	80-120		5		06/22/18 00:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO18-PZM006 **Lab ID: 30255485006** Collected: 06/08/18 11:35 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 22:03	630-20-6	M5
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:03	71-55-6	M5
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:03	79-34-5	M5
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:03	79-00-5	M5
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/18 22:03	75-34-3	M5
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:03	75-35-4	M5
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/18 22:03	96-18-4	M5
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/18 22:03	96-12-8	M5
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:03	106-93-4	M5
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/18 22:03	95-50-1	M5
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:03	107-06-2	M5
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:03	78-87-5	M5
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:03	106-46-7	M5
2-Butanone (MEK)	**12.6J**	ug/L	50.0	10.5	5		06/21/18 22:03	78-93-3	M5
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/18 22:03	591-78-6	M5
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/18 22:03	108-10-1	M5
Acetone	**47.4J**	ug/L	50.0	14.2	5		06/21/18 22:03	67-64-1	M5
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/18 22:03	107-13-1	M5
Benzene	**328000**	ug/L	2000	480	2000		06/21/18 22:29	71-43-2	M5
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:03	74-97-5	M5
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:03	75-27-4	M5
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:03	75-25-2	M5
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/18 22:03	74-83-9	CH,M5
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:03	75-15-0	M5
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:03	56-23-5	M5
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/18 22:03	108-90-7	M5
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 22:03	75-00-3	M5
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/18 22:03	67-66-3	M5
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/18 22:03	74-87-3	M5
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:03	124-48-1	M5
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 22:03	74-95-3	M5
Ethylbenzene	**69.2**	ug/L	5.0	1.6	5		06/21/18 22:03	100-41-4	M5
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/18 22:03	74-88-4	M5
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:03	1634-04-4	M5
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/18 22:03	75-09-2	M5
Naphthalene	**172**	ug/L	10.0	4.1	5		06/21/18 22:03	91-20-3	M5
Styrene	**2.1J**	ug/L	5.0	0.85	5		06/21/18 22:03	100-42-5	M5
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:03	127-18-4	M5
Toluene	**6710**	ug/L	2000	600	2000		06/21/18 22:29	108-88-3	M5
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 22:03	79-01-6	M5
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:03	75-69-4	M5
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/18 22:03	108-05-4	M5
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:03	75-01-4	M5
Xylene (Total)	**1610**	ug/L	15.0	3.9	5		06/21/18 22:03	1330-20-7	M5
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/18 22:03	156-59-2	M5
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:03	10061-01-5	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO18-PZM006 **Lab ID: 30255485006** Collected: 06/08/18 11:35 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/21/18 22:03	156-60-5	M5
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/18 22:03	10061-02-6	M5
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/18 22:03	110-57-6	M5
Surrogates									
4-Bromofluorobenzene (S)	95	%	79-129		5		06/21/18 22:03	460-00-4	M5
1,2-Dichloroethane-d4 (S)	95	%	80-120		5		06/21/18 22:03	17060-07-0	M5
Toluene-d8 (S)	103	%	80-120		5		06/21/18 22:03	2037-26-5	M5
Dibromofluoromethane (S)	90	%	80-120		5		06/21/18 22:03	1868-53-7	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO93-PZMXXX **Lab ID: 30255485007** Collected: 06/08/18 13:05 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 22:54	630-20-6	M5
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:54	71-55-6	M5
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:54	79-34-5	M5
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:54	79-00-5	M5
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/18 22:54	75-34-3	M5
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:54	75-35-4	M5
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/18 22:54	96-18-4	M5
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/18 22:54	96-12-8	M5
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:54	106-93-4	M5
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/18 22:54	95-50-1	M5
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:54	107-06-2	M5
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:54	78-87-5	M5
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 22:54	106-46-7	M5
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/18 22:54	78-93-3	M5
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/18 22:54	591-78-6	M5
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/18 22:54	108-10-1	M5
Acetone	**16.7J**	ug/L	50.0	14.2	5		06/21/18 22:54	67-64-1	M5
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/18 22:54	107-13-1	M5
Benzene	**122000**	ug/L	1000	240	1000		06/21/18 23:19	71-43-2	M5
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:54	74-97-5	M5
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:54	75-27-4	M5
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:54	75-25-2	M5
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/18 22:54	74-83-9	CH,M5
Carbon disulfide	**9.8**	ug/L	5.0	1.6	5		06/21/18 22:54	75-15-0	M5
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 22:54	56-23-5	M5
Chlorobenzene	**10.5**	ug/L	5.0	0.75	5		06/21/18 22:54	108-90-7	M5
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 22:54	75-00-3	M5
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/18 22:54	67-66-3	M5
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/18 22:54	74-87-3	M5
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:54	124-48-1	M5
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 22:54	74-95-3	M5
Ethylbenzene	**934**	ug/L	5.0	1.6	5		06/21/18 22:54	100-41-4	M5
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/18 22:54	74-88-4	M5
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:54	1634-04-4	M5
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/18 22:54	75-09-2	M5
Naphthalene	**1790**	ug/L	10.0	4.1	5		06/21/18 22:54	91-20-3	M5
Styrene	**952**	ug/L	5.0	0.85	5		06/21/18 22:54	100-42-5	M5
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:54	127-18-4	M5
Toluene	**32900**	ug/L	1000	300	1000		06/21/18 23:19	108-88-3	M5
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 22:54	79-01-6	M5
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 22:54	75-69-4	M5
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/18 22:54	108-05-4	M5
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 22:54	75-01-4	M5
Xylene (Total)	**9080**	ug/L	3000	780	1000		06/21/18 23:19	1330-20-7	M5
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/18 22:54	156-59-2	M5
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 22:54	10061-01-5	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO93-PZMXXX **Lab ID: 30255485007** Collected: 06/08/18 13:05 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/21/18 22:54	156-60-5	M5
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/18 22:54	10061-02-6	M5
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/18 22:54	110-57-6	M5
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-129		5		06/21/18 22:54	460-00-4	M5
1,2-Dichloroethane-d4 (S)	98	%	80-120		5		06/21/18 22:54	17060-07-0	M5
Toluene-d8 (S)	103	%	80-120		5		06/21/18 22:54	2037-26-5	M5
Dibromofluoromethane (S)	92	%	80-120		5		06/21/18 22:54	1868-53-7	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO104-PZMXXX **Lab ID: 30255485008** Collected: 06/08/18 13:50 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		06/21/18 17:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/18 17:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 17:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 17:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		06/21/18 17:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 17:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		06/21/18 17:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		06/21/18 17:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 17:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		06/21/18 17:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		06/21/18 17:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		06/21/18 17:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		06/21/18 17:14	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		06/21/18 17:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		06/21/18 17:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		06/21/18 17:14	108-10-1	
Acetone	**3.4J**	ug/L	10.0	2.8	1		06/21/18 17:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		06/21/18 17:14	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		06/21/18 17:14	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 17:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		06/21/18 17:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 17:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		06/21/18 17:14	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 17:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		06/21/18 17:14	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		06/21/18 17:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		06/21/18 17:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		06/21/18 17:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		06/21/18 17:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		06/21/18 17:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		06/21/18 17:14	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 17:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		06/21/18 17:14	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		06/21/18 17:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		06/21/18 17:14	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		06/21/18 17:14	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		06/21/18 17:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		06/21/18 17:14	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		06/21/18 17:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		06/21/18 17:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		06/21/18 17:14	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		06/21/18 17:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		06/21/18 17:14	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		06/21/18 17:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		06/21/18 17:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		06/21/18 17:14	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO104-PZMXXX **Lab ID: 30255485008** Collected: 06/08/18 13:50 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		06/21/18 17:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		06/21/18 17:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		06/21/18 17:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		1		06/21/18 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	80-120		1		06/21/18 17:14	17060-07-0	
Toluene-d8 (S)	96	%	80-120		1		06/21/18 17:14	2037-26-5	
Dibromofluoromethane (S)	103	%	80-120		1		06/21/18 17:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO103-PZMXXX **Lab ID: 30255485009** Collected: 06/08/18 14:30 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 23:44	630-20-6	M5
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:44	71-55-6	M5
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 23:44	79-34-5	M5
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:44	79-00-5	M5
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/21/18 23:44	75-34-3	M5
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:44	75-35-4	M5
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/21/18 23:44	96-18-4	M5
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/21/18 23:44	96-12-8	M5
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:44	106-93-4	M5
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/21/18 23:44	95-50-1	M5
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 23:44	107-06-2	M5
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:44	78-87-5	M5
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/21/18 23:44	106-46-7	M5
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/21/18 23:44	78-93-3	M5
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/21/18 23:44	591-78-6	M5
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/21/18 23:44	108-10-1	M5
Acetone	**18.3J**	ug/L	50.0	14.2	5		06/21/18 23:44	67-64-1	M5
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/21/18 23:44	107-13-1	M5
Benzene	**57.5**	ug/L	5.0	1.2	5		06/21/18 23:44	71-43-2	M5
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 23:44	74-97-5	M5
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:44	75-27-4	M5
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:44	75-25-2	M5
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/21/18 23:44	74-83-9	CH,M5
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:44	75-15-0	M5
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/21/18 23:44	56-23-5	M5
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/21/18 23:44	108-90-7	M5
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/21/18 23:44	75-00-3	M5
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/21/18 23:44	67-66-3	M5
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/21/18 23:44	74-87-3	M5
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:44	124-48-1	M5
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 23:44	74-95-3	M5
Ethylbenzene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:44	100-41-4	M5
Iodomethane	**250 U**	ug/L	250	3.4	5		06/21/18 23:44	74-88-4	M5
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 23:44	1634-04-4	M5
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/21/18 23:44	75-09-2	M5
Naphthalene	**14.6**	ug/L	10.0	4.1	5		06/21/18 23:44	91-20-3	M5
Styrene	**5.0 U**	ug/L	5.0	0.85	5		06/21/18 23:44	100-42-5	M5
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:44	127-18-4	M5
Toluene	**8.1**	ug/L	5.0	1.5	5		06/21/18 23:44	108-88-3	M5
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/21/18 23:44	79-01-6	M5
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/21/18 23:44	75-69-4	M5
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/21/18 23:44	108-05-4	M5
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/21/18 23:44	75-01-4	M5
Xylene (Total)	**15.0 U**	ug/L	15.0	3.9	5		06/21/18 23:44	1330-20-7	M5
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/21/18 23:44	156-59-2	M5
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/21/18 23:44	10061-01-5	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO103-PZMXXX **Lab ID: 30255485009** Collected: 06/08/18 14:30 Received: 06/09/18 00:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/21/18 23:44	156-60-5	M5
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/21/18 23:44	10061-02-6	M5
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/21/18 23:44	110-57-6	M5
Surrogates									
4-Bromofluorobenzene (S)	102	%	79-129		5		06/21/18 23:44	460-00-4	M5
1,2-Dichloroethane-d4 (S)	108	%	80-120		5		06/21/18 23:44	17060-07-0	M5
Toluene-d8 (S)	98	%	80-120		5		06/21/18 23:44	2037-26-5	M5
Dibromofluoromethane (S)	104	%	80-120		5		06/21/18 23:44	1868-53-7	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO102-PZMXXX **Lab ID: 30255485010** Collected: 06/08/18 15:25 Received: 06/09/18 00:30 Matrix: Water

Comments: • Collection time not listed on sample containers.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/22/18 00:34	630-20-6	M5
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:34	71-55-6	M5
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		06/22/18 00:34	79-34-5	M5
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:34	79-00-5	M5
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		06/22/18 00:34	75-34-3	M5
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:34	75-35-4	M5
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		06/22/18 00:34	96-18-4	M5
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		06/22/18 00:34	96-12-8	M5
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:34	106-93-4	M5
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		06/22/18 00:34	95-50-1	M5
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		06/22/18 00:34	107-06-2	M5
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:34	78-87-5	M5
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		06/22/18 00:34	106-46-7	M5
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		06/22/18 00:34	78-93-3	M5
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		06/22/18 00:34	591-78-6	M5
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		06/22/18 00:34	108-10-1	M5
Acetone	**18.6J**	ug/L	50.0	14.2	5		06/22/18 00:34	67-64-1	M5
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		06/22/18 00:34	107-13-1	M5
Benzene	**12300**	ug/L	100	24.0	100		06/22/18 00:59	71-43-2	M5
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		06/22/18 00:34	74-97-5	M5
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:34	75-27-4	M5
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:34	75-25-2	M5
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		06/22/18 00:34	74-83-9	CH,M5
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:34	75-15-0	M5
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		06/22/18 00:34	56-23-5	M5
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		06/22/18 00:34	108-90-7	M5
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		06/22/18 00:34	75-00-3	M5
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		06/22/18 00:34	67-66-3	M5
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		06/22/18 00:34	74-87-3	M5
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:34	124-48-1	M5
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		06/22/18 00:34	74-95-3	M5
Ethylbenzene	**19.7**	ug/L	5.0	1.6	5		06/22/18 00:34	100-41-4	M5
Iodomethane	**250 U**	ug/L	250	3.4	5		06/22/18 00:34	74-88-4	M5
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		06/22/18 00:34	1634-04-4	M5
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		06/22/18 00:34	75-09-2	M5
Naphthalene	**980**	ug/L	10.0	4.1	5		06/22/18 00:34	91-20-3	M5
Styrene	**6.4**	ug/L	5.0	0.85	5		06/22/18 00:34	100-42-5	M5
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:34	127-18-4	M5
Toluene	**884**	ug/L	5.0	1.5	5		06/22/18 00:34	108-88-3	M5
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		06/22/18 00:34	79-01-6	M5
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		06/22/18 00:34	75-69-4	M5
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		06/22/18 00:34	108-05-4	M5
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		06/22/18 00:34	75-01-4	M5
Xylene (Total)	**228**	ug/L	15.0	3.9	5		06/22/18 00:34	1330-20-7	M5
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		06/22/18 00:34	156-59-2	M5

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30255485

Sample: CO102-PZMXXX **Lab ID: 30255485010** Collected: 06/08/18 15:25 Received: 06/09/18 00:30 Matrix: Water

Comments: • Collection time not listed on sample containers.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		06/22/18 00:34	10061-01-5	M5
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		06/22/18 00:34	156-60-5	M5
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		06/22/18 00:34	10061-02-6	M5
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		06/22/18 00:34	110-57-6	M5
Surrogates									
4-Bromofluorobenzene (S)	100	%	79-129		5		06/22/18 00:34	460-00-4	M5
1,2-Dichloroethane-d4 (S)	101	%	80-120		5		06/22/18 00:34	17060-07-0	M5
Toluene-d8 (S)	97	%	80-120		5		06/22/18 00:34	2037-26-5	M5
Dibromofluoromethane (S)	94	%	80-120		5		06/22/18 00:34	1868-53-7	M5

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255485

QC Batch: 303041 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30255485001, 30255485002, 30255485003, 30255485005, 30255485008

METHOD BLANK: 1482650 Matrix: Water
Associated Lab Samples: 30255485001, 30255485002, 30255485003, 30255485005, 30255485008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/21/18 16:24	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/21/18 16:24	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/21/18 16:24	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/21/18 16:24	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/21/18 16:24	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/21/18 16:24	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/21/18 16:24	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/21/18 16:24	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/21/18 16:24	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/21/18 16:24	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/21/18 16:24	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/21/18 16:24	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/21/18 16:24	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/21/18 16:24	
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/21/18 16:24	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/21/18 16:24	
Acetone	ug/L	10.0 U	10.0	2.8	06/21/18 16:24	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/21/18 16:24	
Benzene	ug/L	1.0 U	1.0	0.24	06/21/18 16:24	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/21/18 16:24	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/21/18 16:24	
Bromoform	ug/L	1.0 U	1.0	0.32	06/21/18 16:24	
Bromomethane	ug/L	1.0 U	1.0	0.49	06/21/18 16:24	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/21/18 16:24	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/21/18 16:24	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/21/18 16:24	
Chloroethane	ug/L	1.0 U	1.0	0.55	06/21/18 16:24	
Chloroform	ug/L	1.0 U	1.0	0.30	06/21/18 16:24	
Chloromethane	ug/L	1.0 U	1.0	0.68	06/21/18 16:24	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/21/18 16:24	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/21/18 16:24	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/21/18 16:24	
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/21/18 16:24	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/21/18 16:24	
Iodomethane	ug/L	50.0 U	50.0	0.67	06/21/18 16:24	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/21/18 16:24	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/21/18 16:24	
Naphthalene	ug/L	2.0 U	2.0	0.82	06/21/18 16:24	
Styrene	ug/L	1.0 U	1.0	0.17	06/21/18 16:24	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/21/18 16:24	
Toluene	ug/L	1.0 U	1.0	0.30	06/21/18 16:24	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255485

METHOD BLANK: 1482650 Matrix: Water
Associated Lab Samples: 30255485001, 30255485002, 30255485003, 30255485005, 30255485008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/21/18 16:24	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/21/18 16:24	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/21/18 16:24	
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/21/18 16:24	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/21/18 16:24	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/21/18 16:24	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/21/18 16:24	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/21/18 16:24	
1,2-Dichloroethane-d4 (S)	%	106	80-120		06/21/18 16:24	
4-Bromofluorobenzene (S)	%	102	79-129		06/21/18 16:24	
Dibromofluoromethane (S)	%	101	80-120		06/21/18 16:24	
Toluene-d8 (S)	%	96	80-120		06/21/18 16:24	

LABORATORY CONTROL SAMPLE: 1482651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.9	100	70-130	
1,1,1-Trichloroethane	ug/L	20	20.3	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	19.5	98	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethene	ug/L	20	22.5	112	70-130	
1,2,3-Trichloropropane	ug/L	20	21.1	105	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	93	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.9	99	70-130	
1,2-Dichlorobenzene	ug/L	20	20.5	102	70-130	
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
1,2-Dichloropropane	ug/L	20	19.5	97	70-130	
1,4-Dichlorobenzene	ug/L	20	20.5	102	70-130	
2-Butanone (MEK)	ug/L	20	20.3	102	72-170	
2-Hexanone	ug/L	20	19.2	96	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.8	104	66-150	
Acetone	ug/L	20	22.9	114	30-179	
Acrylonitrile	ug/L	20	20.3	102	48-172	
Benzene	ug/L	20	19.4	97	70-130	
Bromochloromethane	ug/L	20	19.8	99	70-130	
Bromodichloromethane	ug/L	20	18.8	94	70-130	
Bromoform	ug/L	20	18.3	92	70-130	
Bromomethane	ug/L	20	16.9	84	47-174	
Carbon disulfide	ug/L	20	15.8	79	43-133	
Carbon tetrachloride	ug/L	20	20.4	102	56-143	
Chlorobenzene	ug/L	20	20.5	103	70-130	
Chloroethane	ug/L	20	24.4	122	67-139	
Chloroform	ug/L	20	19.8	99	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255485

LABORATORY CONTROL SAMPLE: 1482651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.2	81	57-138	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.0	95	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	20.2	101	70-130	
Iodomethane	ug/L	20	7.9J	39	10-175	CL
Methyl-tert-butyl ether	ug/L	20	19.9	100	70-130	
Methylene Chloride	ug/L	20	20.8	104	55-144	
Naphthalene	ug/L	20	19.5	97	70-130	
Styrene	ug/L	20	19.7	99	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	19.6	98	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	102	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.2	76	27-116	
Trichloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	24.6	123	60-148	
Vinyl acetate	ug/L	20	20.5	103	30-181	
Vinyl chloride	ug/L	20	19.3	96	70-130	
Xylene (Total)	ug/L	60	60.2	100	70-130	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			100	79-129	
Dibromofluoromethane (S)	%			103	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1483447 1483448

Parameter	Units	30255485008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.2	18.6	91	93	51-124	2	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	18.8	18.1	94	91	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.4	17.9	92	89	57-118	3	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	18.0	18.1	90	90	68-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.2	18.7	91	93	74-119	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	20.6	20.2	103	101	63-126	2	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	20.8	20.0	104	100	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	16.9	16.6	84	83	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.2	18.3	91	91	69-124	1	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.2	19.0	96	95	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	17.5	18.2	88	91	69-116	3	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	18.0	18.4	90	92	63-118	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.5	19.5	98	98	72-118	0	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.6	20.1	93	101	72-168	8	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255485

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1483447			1483448							
Parameter	Units	30255485008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	18.5	18.8	92	94	66-143	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	19.4	19.2	97	96	67-145	1	30	
Acetone	ug/L	3.4J	20	20	24.4	25.2	105	109	15-175	3	30	
Acrylonitrile	ug/L	4.0 U	20	20	15.7	16.6	78	83	36-165	6	30	
Benzene	ug/L	1.0 U	20	20	19.5	19.1	98	95	67-121	2	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.5	18.5	93	93	62-128	0	30	
Bromodichloromethane	ug/L	1.0 U	20	20	17.6	17.7	88	89	66-127	1	30	
Bromoform	ug/L	1.0 U	20	20	15.7	15.7	79	79	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	5.6	6.1	28	31	10-156	10	30	
Carbon disulfide	ug/L	1.0 U	20	20	13.0	13.4	65	67	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.4	19.2	97	96	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.1	18.9	96	95	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	26.2	26.2	131	131	60-156	0	30	
Chloroform	ug/L	1.0 U	20	20	18.0	18.2	90	91	69-115	1	30	
Chloromethane	ug/L	1.0 U	20	20	19.1	18.7	95	94	52-145	2	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.0	19.1	95	96	65-120	1	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.1	17.3	85	87	57-125	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.7	16.8	83	84	64-131	1	30	
Dibromomethane	ug/L	1.0 U	20	20	18.5	19.3	93	97	56-133	4	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.3	18.7	96	94	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.7J	3.8J	14	19	10-152		30	CL
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	19.9	20.8	100	104	79-135	4	30	
Methylene Chloride	ug/L	1.0 U	20	20	17.9	17.1	90	85	54-133	5	30	
Naphthalene	ug/L	2.0 U	20	20	18.6	19.0	93	95	62-131	2	30	
Styrene	ug/L	1.0 U	20	20	18.4	18.2	92	91	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.4	19.2	97	96	77-125	1	30	
Toluene	ug/L	1.0 U	20	20	18.5	18.5	93	92	77-125	0	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	18.5	18.6	93	93	70-119	0	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.1	16.7	81	84	52-125	4	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.0	7.6	35	38	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	18.6	18.7	93	93	74-128	0	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	30.8	31.4	154	157	54-164	2	30	
Vinyl acetate	ug/L	10.0 U	20	20	18.9	18.7	95	93	15-173	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	22.4	21.7	112	108	60-131	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	56.5	56.0	94	93	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%						104	103	80-120			
4-Bromofluorobenzene (S)	%						105	102	79-129			
Dibromofluoromethane (S)	%						102	102	80-120			
Toluene-d8 (S)	%						98	99	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255485

QC Batch: 303042 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30255485004, 30255485006, 30255485007, 30255485009, 30255485010

METHOD BLANK: 1482652 Matrix: Water
Associated Lab Samples: 30255485004, 30255485006, 30255485007, 30255485009, 30255485010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	06/21/18 16:11	M5
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	06/21/18 16:11	M5
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	06/21/18 16:11	M5
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	06/21/18 16:11	M5
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	06/21/18 16:11	M5
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	06/21/18 16:11	M5
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	06/21/18 16:11	M5
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	06/21/18 16:11	M5
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	06/21/18 16:11	M5
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	06/21/18 16:11	M5
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	06/21/18 16:11	M5
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	06/21/18 16:11	M5
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	06/21/18 16:11	M5
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	06/21/18 16:11	M5
2-Hexanone	ug/L	10.0 U	10.0	0.66	06/21/18 16:11	M5
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	06/21/18 16:11	M5
Acetone	ug/L	10.0 U	10.0	2.8	06/21/18 16:11	M5
Acrylonitrile	ug/L	4.0 U	4.0	0.63	06/21/18 16:11	M5
Benzene	ug/L	1.0 U	1.0	0.24	06/21/18 16:11	M5
Bromochloromethane	ug/L	1.0 U	1.0	0.34	06/21/18 16:11	M5
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	06/21/18 16:11	M5
Bromoform	ug/L	1.0 U	1.0	0.32	06/21/18 16:11	M5
Bromomethane	ug/L	1.0 U	1.0	0.49	06/21/18 16:11	CH,M5
Carbon disulfide	ug/L	1.0 U	1.0	0.32	06/21/18 16:11	M5
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	06/21/18 16:11	M5
Chlorobenzene	ug/L	1.0 U	1.0	0.15	06/21/18 16:11	M5
Chloroethane	ug/L	1.0 U	1.0	0.55	06/21/18 16:11	M5
Chloroform	ug/L	1.0 U	1.0	0.30	06/21/18 16:11	M5
Chloromethane	ug/L	1.0 U	1.0	0.68	06/21/18 16:11	M5
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	06/21/18 16:11	M5
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	06/21/18 16:11	M5
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	06/21/18 16:11	M5
Dibromomethane	ug/L	1.0 U	1.0	0.40	06/21/18 16:11	M5
Ethylbenzene	ug/L	1.0 U	1.0	0.31	06/21/18 16:11	M5
Iodomethane	ug/L	50.0 U	50.0	0.67	06/21/18 16:11	M5
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	06/21/18 16:11	M5
Methylene Chloride	ug/L	1.0 U	1.0	0.77	06/21/18 16:11	M5
Naphthalene	ug/L	2.0 U	2.0	0.82	06/21/18 16:11	M5
Styrene	ug/L	1.0 U	1.0	0.17	06/21/18 16:11	M5
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	06/21/18 16:11	M5
Toluene	ug/L	1.0 U	1.0	0.30	06/21/18 16:11	M5

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255485

METHOD BLANK: 1482652 Matrix: Water
Associated Lab Samples: 30255485004, 30255485006, 30255485007, 30255485009, 30255485010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	06/21/18 16:11	M5
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	06/21/18 16:11	M5
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	06/21/18 16:11	M5
Trichloroethene	ug/L	1.0 U	1.0	0.39	06/21/18 16:11	M5
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	06/21/18 16:11	M5
Vinyl acetate	ug/L	10.0 U	10.0	0.51	06/21/18 16:11	M5
Vinyl chloride	ug/L	1.0 U	1.0	0.31	06/21/18 16:11	M5
Xylene (Total)	ug/L	3.0 U	3.0	0.78	06/21/18 16:11	M5
1,2-Dichloroethane-d4 (S)	%	107	80-120		06/21/18 16:11	M5
4-Bromofluorobenzene (S)	%	101	79-129		06/21/18 16:11	M5
Dibromofluoromethane (S)	%	101	80-120		06/21/18 16:11	M5
Toluene-d8 (S)	%	96	80-120		06/21/18 16:11	M5

LABORATORY CONTROL SAMPLE: 1482653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	98	70-130	M5
1,1,1-Trichloroethane	ug/L	20	19.6	98	70-130	M5
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	M5
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	M5
1,1-Dichloroethane	ug/L	20	20.1	101	70-130	M5
1,1-Dichloroethene	ug/L	20	21.6	108	70-130	M5
1,2,3-Trichloropropane	ug/L	20	20.5	102	70-130	M5
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	93	58-128	M5
1,2-Dibromoethane (EDB)	ug/L	20	20.4	102	70-130	M5
1,2-Dichlorobenzene	ug/L	20	20.9	105	70-130	M5
1,2-Dichloroethane	ug/L	20	20.8	104	70-130	M5
1,2-Dichloropropane	ug/L	20	20.4	102	70-130	M5
1,4-Dichlorobenzene	ug/L	20	20.5	102	70-130	M5
2-Butanone (MEK)	ug/L	20	20.7	103	72-170	M5
2-Hexanone	ug/L	20	19.0	95	65-151	M5
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	66-150	M5
Acetone	ug/L	20	21.3	106	30-179	M5
Acrylonitrile	ug/L	20	19.7	98	48-172	M5
Benzene	ug/L	20	19.9	99	70-130	M5
Bromochloromethane	ug/L	20	21.5	108	70-130	M5
Bromodichloromethane	ug/L	20	18.5	92	70-130	M5
Bromoform	ug/L	20	17.4	87	70-130	M5
Bromomethane	ug/L	20	30.6	153	47-174	CH,M5
Carbon disulfide	ug/L	20	15.7	79	43-133	M5
Carbon tetrachloride	ug/L	20	20.3	102	56-143	M5
Chlorobenzene	ug/L	20	20.1	101	70-130	M5
Chloroethane	ug/L	20	19.7	99	67-139	M5
Chloroform	ug/L	20	21.0	105	70-130	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30255485

LABORATORY CONTROL SAMPLE: 1482653

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.1	86	57-138	M5
cis-1,2-Dichloroethene	ug/L	20	20.2	101	70-130	M5
cis-1,3-Dichloropropene	ug/L	20	18.9	95	70-130	M5
Dibromochloromethane	ug/L	20	19.1	96	70-130	M5
Dibromomethane	ug/L	20	20.9	104	70-130	M5
Ethylbenzene	ug/L	20	20.1	101	70-130	M5
Iodomethane	ug/L	20	16.4J	82	10-175	M5
Methyl-tert-butyl ether	ug/L	20	19.9	100	70-130	M5
Methylene Chloride	ug/L	20	22.1	110	55-144	M5
Naphthalene	ug/L	20	20.0	100	70-130	M5
Styrene	ug/L	20	20.1	100	70-130	M5
Tetrachloroethene	ug/L	20	20.5	103	70-130	M5
Toluene	ug/L	20	20.0	100	70-130	M5
trans-1,2-Dichloroethene	ug/L	20	20.8	104	70-130	M5
trans-1,3-Dichloropropene	ug/L	20	19.1	96	70-130	M5
trans-1,4-Dichloro-2-butene	ug/L	20	15.4	77	27-116	M5
Trichloroethene	ug/L	20	20.1	101	70-130	M5
Trichlorofluoromethane	ug/L	20	22.0	110	60-148	M5
Vinyl acetate	ug/L	20	18.2	91	30-181	M5
Vinyl chloride	ug/L	20	19.4	97	70-130	M5
Xylene (Total)	ug/L	60	60.0	100	70-130	M5
1,2-Dichloroethane-d4 (S)	%			101	80-120	M5
4-Bromofluorobenzene (S)	%			101	79-129	M5
Dibromofluoromethane (S)	%			101	80-120	M5
Toluene-d8 (S)	%			98	80-120	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30255485

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: 303042

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
M5	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30255485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30255485001	**Trip Blank**	EPA 8260B	303041		
30255485002	**CO27-PZM046**	EPA 8260B	303041		
30255485003	**CO27-PZM012**	EPA 8260B	303041		
30255485004	**CO40-PZM008**	EPA 8260B	303042		
30255485005	**CO02-PZM006**	EPA 8260B	303041		
30255485006	**CO18-PZM006**	EPA 8260B	303042		
30255485007	**CO93-PZMXXX**	EPA 8260B	303042		
30255485008	**CO104-PZMXXX**	EPA 8260B	303041		
30255485009	**CO103-PZMXXX**	EPA 8260B	303042		
30255485010	**CO102-PZMXXX**	EPA 8260B	303042		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30255485

Page: 1 of 1

Section A Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	170384M-1

Section C Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

WO# : 30255485

30255485

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	VOC	Residual Chlo	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			6/8/18	—		2				2							X		001
2	C027-PZM046	WT	G				850		3				3						X			002
3	C027-PZM012	WT	G				915		3				3						X			003
4	C040-PZM008	WT	G				955		3				3						X			004
5	C002-PZM006	WT	G				1055		3				3						X			005
6	C018-PZM006	WT	G				1135		3				3						X			006
7	C093-PZM XXX	WT	G				1305		3				3						X			007
8	C0104-PZM XXX	WT	G				1350		3				3						X			008
9	C0103-PZM XXX	WT	G				1430		3				3						X			009
10	C0102-PZM XXX	WT	G				1525		3				3						X			010
11	~~C0101-PZM XXX~~	~~WT~~	~~G~~						~~3~~				~~3~~						~~X~~			
12									29													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No pkgs	[signature]	6/8/18	1615	A. Benninghoff / PACE	6/8/18	1615				
	A. Benninghoff / PACE	6/8/18	19:50	[signature]	6/8/18	2000		Y		
	[signature]	6/9/18	030	[signature] PACE	6/9/18	0030	4.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perry

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 6/8/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: EnviroAnalytics Project # 30255485 1

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label OVB

LIMS Login JKM

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used 6 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 4.4 °C Correction Factor: -0.1 °C Final Temp: 4.3 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# NA / Date and Initials of person examining contents: 6/9/18 OVB
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT		✓		5. Sample C0102 - P2M xxx has no date on label
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA), coliform, TOC, O&G, Phenolics			✓	16. Initial when completed OVB Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 25, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW
Pace Project No.: 30264615

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW
Pace Project No.: 30264615

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW
Pace Project No.: 30264615

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30264615001	**Trip Blank 2**	Water	09/10/18 00:00	09/10/18 23:50
30264615002	**C0101-PZM**	Water	09/10/18 14:25	09/10/18 23:50
30264615003	**C0104-PZMXXX**	Water	09/10/18 15:05	09/10/18 23:50
30264615004	**C0102-PZMXXX**	Water	09/10/18 15:40	09/10/18 23:50

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SAMPLE ANALYTE COUNT

Project: COA IM GW
Pace Project No.: 30264615

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30264615001	**Trip Blank 2**	EPA 8260B	MAK	53
30264615002	**C0101-PZM**	EPA 8260B	MAK	53
30264615003	**C0104-PZMXXX**	EPA 8260B	MAK	53
30264615004	**C0102-PZMXXX**	EPA 8260B	MAK	53

Sample IDs changed from "C0" to "CO". "XXX" also removed from samples 003 and 004

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: COA IM GW
Pace Project No.: 30264615

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: September 25, 2018

General Information:
4 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 313164

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1529373)
  - Trichlorofluoromethane
- C0101-PZM (Lab ID: 30264615002)
  - Trichlorofluoromethane
- C0104-PZMXXX (Lab ID: 30264615003)
  - Trichlorofluoromethane
- LCS (Lab ID: 1529374)
  - Trichlorofluoromethane
- MS (Lab ID: 1529375)
  - Trichlorofluoromethane
- MSD (Lab ID: 1529376)
  - Trichlorofluoromethane
- Trip Blank 2 (Lab ID: 30264615001)
  - Trichlorofluoromethane

QC Batch: 313449

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1530299)
  - Trichlorofluoromethane
- C0102-PZMXXX (Lab ID: 30264615004)
  - Trichlorofluoromethane
- LCS (Lab ID: 1530300)
  - Trichlorofluoromethane
- MS (Lab ID: 1530575)
  - Trichlorofluoromethane
- MSD (Lab ID: 1530576)
  - Trichlorofluoromethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: COA IM GW
Pace Project No.: 30264615

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: September 25, 2018

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 313164

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
- Trip Blank 2 (Lab ID: 30264615001)
  - 1,2-Dichloroethane-d4 (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.
- C0101-PZM (Lab ID: 30264615002)
  - 1,2-Dichloroethane-d4 (S)
- MS (Lab ID: 1529375)
  - 1,2-Dichloroethane-d4 (S)
- MSD (Lab ID: 1529376)
  - 1,2-Dichloroethane-d4 (S)
- Trip Blank 2 (Lab ID: 30264615001)
  - 1,2-Dichloroethane-d4 (S)

QC Batch: 313449

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
- C0102-PZMXXX (Lab ID: 30264615004)
  - 1,2-Dichloroethane-d4 (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.
- C0102-PZMXXX (Lab ID: 30264615004)
  - 1,2-Dichloroethane-d4 (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 313164

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- LCS (Lab ID: 1529374)
  - Trichlorofluoromethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 313164

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30264647007

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
- MS (Lab ID: 1529375)
  - Trichlorofluoromethane

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PROJECT NARRATIVE

Project: COA IM GW
Pace Project No.: 30264615

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: September 25, 2018

QC Batch: 313164

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30264647007

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MSD (Lab ID: 1529376)
  - Carbon tetrachloride
  - Trichlorofluoromethane

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1529375)
  - 2-Butanone (MEK)

QC Batch: 313449

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30264647038

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1530575)
  - Carbon tetrachloride
  - Trichlorofluoromethane
- MSD (Lab ID: 1530576)
  - Trichlorofluoromethane

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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1638 Roseytown Road - Suites 2,3,4
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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: Trip Blank 2 **Lab ID: 30264615001** Collected: 09/10/18 00:00 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**3.4J**	ug/L	10.0	2.8	1		09/17/18 11:31	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/17/18 11:31	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/17/18 11:31	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 11:31	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/17/18 11:31	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 11:31	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/17/18 11:31	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/17/18 11:31	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 11:31	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 11:31	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/17/18 11:31	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/17/18 11:31	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 11:31	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/17/18 11:31	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/17/18 11:31	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/17/18 11:31	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 11:31	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/17/18 11:31	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/17/18 11:31	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 11:31	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/17/18 11:31	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/17/18 11:31	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 11:31	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 11:31	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/17/18 11:31	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/17/18 11:31	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/17/18 11:31	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 11:31	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/17/18 11:31	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 11:31	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/17/18 11:31	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/17/18 11:31	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/17/18 11:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/17/18 11:31	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/17/18 11:31	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/17/18 11:31	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/17/18 11:31	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/17/18 11:31	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 11:31	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 11:31	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 11:31	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 11:31	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 11:31	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/17/18 11:31	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 11:31	75-69-4	CH,L1
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/17/18 11:31	96-18-4	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: Trip Blank 2 **Lab ID: 30264615001** Collected: 09/10/18 00:00 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/17/18 11:31	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 11:31	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		09/17/18 11:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	112	%.	79-129		1		09/17/18 11:31	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%.	80-120		1		09/17/18 11:31	17060-07-0	S3,ST
Toluene-d8 (S)	95	%.	80-120		1		09/17/18 11:31	2037-26-5	
Dibromofluoromethane (S)	116	%.	80-120		1		09/17/18 11:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: C0101-PZM **Lab ID: 30264615002** Collected: 09/10/18 14:25 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/17/18 20:02	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/17/18 20:02	107-13-1	
Benzene	**28.7**	ug/L	5.0	1.2	5		09/17/18 20:02	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 20:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 20:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 20:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/17/18 20:02	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/17/18 20:02	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 20:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 20:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/17/18 20:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 20:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/17/18 20:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/17/18 20:02	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/17/18 20:02	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 20:02	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 20:02	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/17/18 20:02	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/17/18 20:02	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 20:02	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/17/18 20:02	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/17/18 20:02	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 20:02	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 20:02	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/17/18 20:02	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/17/18 20:02	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 20:02	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 20:02	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/17/18 20:02	10061-02-6	
Ethylbenzene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 20:02	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/17/18 20:02	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/17/18 20:02	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/17/18 20:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/17/18 20:02	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 20:02	1634-04-4	
Naphthalene	**6.2J**	ug/L	10.0	4.1	5		09/17/18 20:02	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		09/17/18 20:02	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 20:02	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 20:02	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 20:02	127-18-4	
Toluene	**5.0 U**	ug/L	5.0	1.5	5		09/17/18 20:02	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 20:02	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 20:02	79-00-5	
Trichloroethene	**2.9J**	ug/L	5.0	2.0	5		09/17/18 20:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 20:02	75-69-4	CH,L1
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/17/18 20:02	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: C0101-PZM **Lab ID: 30264615002** Collected: 09/10/18 14:25 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/17/18 20:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 20:02	75-01-4	
Xylene (Total)	**15.0 U**	ug/L	15.0	3.9	5		09/17/18 20:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		5		09/17/18 20:02	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%.	80-120		5		09/17/18 20:02	17060-07-0	ST
Toluene-d8 (S)	92	%.	80-120		5		09/17/18 20:02	2037-26-5	
Dibromofluoromethane (S)	116	%.	80-120		5		09/17/18 20:02	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: C0104-PZMXXX **Lab ID: 30264615003** Collected: 09/10/18 15:05 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**13.1**	ug/L	10.0	2.8	1		09/17/18 12:47	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/17/18 12:47	107-13-1	
Benzene	**59.5**	ug/L	1.0	0.24	1		09/17/18 12:47	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 12:47	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/17/18 12:47	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 12:47	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/17/18 12:47	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/17/18 12:47	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 12:47	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 12:47	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/17/18 12:47	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/17/18 12:47	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 12:47	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/17/18 12:47	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/17/18 12:47	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/17/18 12:47	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 12:47	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/17/18 12:47	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/17/18 12:47	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 12:47	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/17/18 12:47	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/17/18 12:47	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 12:47	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 12:47	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/17/18 12:47	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/17/18 12:47	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/17/18 12:47	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 12:47	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/17/18 12:47	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 12:47	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/17/18 12:47	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/17/18 12:47	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/17/18 12:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/17/18 12:47	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/17/18 12:47	1634-04-4	
Naphthalene	**13.5**	ug/L	2.0	0.82	1		09/17/18 12:47	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/17/18 12:47	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/17/18 12:47	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 12:47	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 12:47	127-18-4	
Toluene	**5.3**	ug/L	1.0	0.30	1		09/17/18 12:47	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 12:47	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 12:47	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/17/18 12:47	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 12:47	75-69-4	CH,L1
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/17/18 12:47	96-18-4	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: C0104-PZMXXX **Lab ID: 30264615003** Collected: 09/10/18 15:05 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/17/18 12:47	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 12:47	75-01-4	
Xylene (Total)	**4.3**	ug/L	3.0	0.78	1		09/17/18 12:47	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	112	%.	79-129		1		09/17/18 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	80-120		1		09/17/18 12:47	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		09/17/18 12:47	2037-26-5	
Dibromofluoromethane (S)	114	%.	80-120		1		09/17/18 12:47	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: C0102-PZMXXX **Lab ID: 30264615004** Collected: 09/10/18 15:40 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**10.0 U**	ug/L	10.0	2.8	1		09/19/18 08:30	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/19/18 08:30	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/19/18 08:30	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/19/18 08:30	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/19/18 08:30	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/19/18 08:30	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/19/18 08:30	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/19/18 08:30	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/19/18 08:30	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/19/18 08:30	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/19/18 08:30	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/19/18 08:30	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/19/18 08:30	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/19/18 08:30	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/19/18 08:30	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/19/18 08:30	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/19/18 08:30	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/19/18 08:30	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/19/18 08:30	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/19/18 08:30	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/19/18 08:30	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/19/18 08:30	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/19/18 08:30	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/19/18 08:30	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/19/18 08:30	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/19/18 08:30	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/19/18 08:30	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/19/18 08:30	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/19/18 08:30	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/19/18 08:30	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/19/18 08:30	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/19/18 08:30	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/19/18 08:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/19/18 08:30	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/19/18 08:30	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/19/18 08:30	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/19/18 08:30	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/19/18 08:30	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/19/18 08:30	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/19/18 08:30	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/19/18 08:30	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/19/18 08:30	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/19/18 08:30	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/19/18 08:30	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/19/18 08:30	75-69-4	CH
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/19/18 08:30	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264615

Sample: C0102-PZMXXX **Lab ID: 30264615004** Collected: 09/10/18 15:40 Received: 09/10/18 23:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/19/18 08:30	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/19/18 08:30	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		09/19/18 08:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%.	79-129		1		09/19/18 08:30	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%.	80-120		1		09/19/18 08:30	17060-07-0	S3,ST
Toluene-d8 (S)	94	%.	80-120		1		09/19/18 08:30	2037-26-5	
Dibromofluoromethane (S)	111	%.	80-120		1		09/19/18 08:30	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

QC Batch: 313164 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30264615001, 30264615002, 30264615003

METHOD BLANK: 1529373 Matrix: Water
Associated Lab Samples: 30264615001, 30264615002, 30264615003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/17/18 11:06	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/17/18 11:06	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/17/18 11:06	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/17/18 11:06	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/17/18 11:06	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/17/18 11:06	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/17/18 11:06	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/17/18 11:06	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/17/18 11:06	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/17/18 11:06	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/17/18 11:06	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/17/18 11:06	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/17/18 11:06	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/17/18 11:06	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/17/18 11:06	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/17/18 11:06	
Acetone	ug/L	10.0 U	10.0	2.8	09/17/18 11:06	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/17/18 11:06	
Benzene	ug/L	1.0 U	1.0	0.24	09/17/18 11:06	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/17/18 11:06	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/17/18 11:06	
Bromoform	ug/L	1.0 U	1.0	0.32	09/17/18 11:06	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/17/18 11:06	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/17/18 11:06	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/17/18 11:06	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/17/18 11:06	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/17/18 11:06	
Chloroform	ug/L	1.0 U	1.0	0.30	09/17/18 11:06	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/17/18 11:06	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/17/18 11:06	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/17/18 11:06	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/17/18 11:06	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/17/18 11:06	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/17/18 11:06	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/17/18 11:06	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/17/18 11:06	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/17/18 11:06	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/17/18 11:06	
Styrene	ug/L	1.0 U	1.0	0.17	09/17/18 11:06	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/17/18 11:06	
Toluene	ug/L	1.0 U	1.0	0.30	09/17/18 11:06	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

METHOD BLANK: 1529373 Matrix: Water
Associated Lab Samples: 30264615001, 30264615002, 30264615003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/17/18 11:06	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/17/18 11:06	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/17/18 11:06	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/17/18 11:06	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/17/18 11:06	CH
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/17/18 11:06	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/17/18 11:06	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/17/18 11:06	
1,2-Dichloroethane-d4 (S)	%.	117	80-120		09/17/18 11:06	
4-Bromofluorobenzene (S)	%.	107	79-129		09/17/18 11:06	
Dibromofluoromethane (S)	%.	117	80-120		09/17/18 11:06	
Toluene-d8 (S)	%.	93	80-120		09/17/18 11:06	

LABORATORY CONTROL SAMPLE: 1529374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.6	103	70-130	
1,1,1-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	88	65-127	
1,1,2-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	20	16.1	80	70-130	
1,1-Dichloroethene	ug/L	20	17.8	89	70-130	
1,2,3-Trichloropropane	ug/L	20	19.6	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	21.7	109	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	70-130	
1,2-Dichlorobenzene	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
1,2-Dichloropropane	ug/L	20	17.1	85	70-130	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	20	19.3	96	72-170	
2-Hexanone	ug/L	20	16.3	81	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.3	92	66-150	
Acetone	ug/L	20	22.5	113	30-179	
Acrylonitrile	ug/L	20	17.7	88	48-172	
Benzene	ug/L	20	17.6	88	70-130	
Bromochloromethane	ug/L	20	20.9	105	70-130	
Bromodichloromethane	ug/L	20	21.1	105	70-130	
Bromoform	ug/L	20	23.3	116	70-130	
Bromomethane	ug/L	20	22.7	113	47-174	
Carbon disulfide	ug/L	20	20.0	100	43-133	
Carbon tetrachloride	ug/L	20	22.2	111	56-143	
Chlorobenzene	ug/L	20	18.1	91	70-130	
Chloroethane	ug/L	20	19.7	98	67-139	
Chloroform	ug/L	20	19.0	95	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

LABORATORY CONTROL SAMPLE: 1529374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	15.2	76	57-138	
cis-1,2-Dichloroethene	ug/L	20	16.0	80	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.4	92	70-130	
Dibromochloromethane	ug/L	20	22.6	113	70-130	
Dibromomethane	ug/L	20	21.1	106	70-130	
Ethylbenzene	ug/L	20	18.3	92	70-130	
Iodomethane	ug/L	20	14.8J	74	10-175	
Methyl-tert-butyl ether	ug/L	20	20.6	103	70-130	
Methylene Chloride	ug/L	20	16.7	83	55-144	
Naphthalene	ug/L	20	19.6	98	70-130	
Styrene	ug/L	20	18.7	94	70-130	
Tetrachloroethene	ug/L	20	19.5	97	70-130	
Toluene	ug/L	20	17.0	85	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.4	77	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.2	91	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	17.7	89	27-116	
Trichloroethene	ug/L	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	20	32.3	162	60-148	CH,L1
Vinyl acetate	ug/L	20	18.0	90	30-181	
Vinyl chloride	ug/L	20	19.2	96	70-130	
Xylene (Total)	ug/L	60	56.8	95	70-130	
1,2-Dichloroethane-d4 (S)	%.			114	80-120	
4-Bromofluorobenzene (S)	%.			100	79-129	
Dibromofluoromethane (S)	%.			117	80-120	
Toluene-d8 (S)	%.			94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529375 1529376

Parameter	Units	30264647007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.2	21.4	96	107	51-124	11	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	22.5	24.0	113	120	79-129	6	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.3	17.9	81	90	57-118	10	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	18.2	19.4	91	97	68-117	6	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.0	19.3	90	96	74-119	7	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	19.1	20.2	96	101	63-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.8	20.7	99	103	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	19.9	19.7	99	98	53-120	1	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.4	20.1	97	101	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.7	19.5	93	98	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	21.6	23.0	108	115	69-116	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.8	18.2	79	91	63-118	14	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.9	19.5	89	98	72-118	9	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.9	14.5	69	73	72-168	4	30	ML

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529375 1529376

Parameter	Units	30264647007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	13.1	15.0	66	75	66-143	13	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	16.4	17.7	82	89	67-145	8	30	
Acetone	ug/L	4.7J	20	20	18.0	19.1	67	72	15-175	6	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.0	15.5	70	77	36-165	10	30	
Benzene	ug/L	1.0 U	20	20	19.3	20.1	97	100	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.2	24.4	101	122	62-128	19	30	
Bromodichloromethane	ug/L	1.0 U	20	20	23.1	23.9	115	119	66-127	3	30	
Bromoform	ug/L	1.0 U	20	20	20.1	22.4	101	112	71-127	11	30	
Bromomethane	ug/L	1.0 U	20	20	16.5	19.0	83	95	10-156	14	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.5	17.8	82	88	45-131	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	24.6	27.3	123	136	69-134	10	30	MH
Chlorobenzene	ug/L	1.0 U	20	20	18.8	20.6	94	103	69-119	9	30	
Chloroethane	ug/L	1.0 U	20	20	22.9	23.6	114	118	60-156	3	30	
Chloroform	ug/L	1.0 U	20	20	20.4	21.7	102	108	69-115	6	30	
Chloromethane	ug/L	1.0 U	20	20	14.1	14.2	70	71	52-145	1	30	
cis-1,2-Dichloroethene	ug/L	1.4	20	20	18.3	19.6	84	91	65-120	7	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.0	19.7	85	99	57-125	15	30	
Dibromochloromethane	ug/L	1.0 U	20	20	22.0	24.1	110	120	64-131	9	30	
Dibromomethane	ug/L	1.0 U	20	20	21.2	22.7	106	113	56-133	7	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.0	19.6	95	98	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	10.8J	15.6J	54	78	10-152		30	
Methyl-tert-butyl ether	ug/L	7.3	20	20	25.1	25.6	89	91	79-135	2	30	
Methylene Chloride	ug/L	1.0 U	20	20	17.7	18.7	88	94	54-133	6	30	
Naphthalene	ug/L	2.0 U	20	20	16.6	18.5	83	93	62-131	11	30	
Styrene	ug/L	1.0 U	20	20	18.0	19.4	90	97	65-121	8	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.4	21.7	102	108	77-125	6	30	
Toluene	ug/L	1.0 U	20	20	17.9	18.5	90	92	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.0	18.5	85	93	70-119	8	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.0	18.7	85	93	52-125	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	9.4	11.1	47	55	13-100	17	30	
Trichloroethene	ug/L	7.3	20	20	27.7	30.0	102	114	74-128	8	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	41.4	43.3	207	217	54-164	5	30	CH,MH
Vinyl acetate	ug/L	10.0 U	20	20	13.9	15.1	70	76	15-173	8	30	
Vinyl chloride	ug/L	1.0 U	20	20	20.0	19.8	100	99	60-131	1	30	
Xylene (Total)	ug/L	3.0 U	60	60	57.8	60.0	96	100	69-128	4	30	
1,2-Dichloroethane-d4 (S)	%.						121	121	80-120			ST
4-Bromofluorobenzene (S)	%.						102	107	79-129			
Dibromofluoromethane (S)	%.						113	113	80-120			
Toluene-d8 (S)	%.						91	94	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

QC Batch: 313449 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30264615004

METHOD BLANK: 1530299 Matrix: Water
Associated Lab Samples: 30264615004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/19/18 00:30	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/19/18 00:30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/19/18 00:30	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/19/18 00:30	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/19/18 00:30	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/19/18 00:30	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/19/18 00:30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/19/18 00:30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/19/18 00:30	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/19/18 00:30	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/19/18 00:30	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/19/18 00:30	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/19/18 00:30	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/19/18 00:30	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/19/18 00:30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/19/18 00:30	
Acetone	ug/L	10.0 U	10.0	2.8	09/19/18 00:30	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/19/18 00:30	
Benzene	ug/L	1.0 U	1.0	0.24	09/19/18 00:30	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/19/18 00:30	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/19/18 00:30	
Bromoform	ug/L	1.0 U	1.0	0.32	09/19/18 00:30	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/19/18 00:30	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/19/18 00:30	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/19/18 00:30	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/19/18 00:30	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/19/18 00:30	
Chloroform	ug/L	1.0 U	1.0	0.30	09/19/18 00:30	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/19/18 00:30	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/19/18 00:30	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/19/18 00:30	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/19/18 00:30	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/19/18 00:30	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/19/18 00:30	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/19/18 00:30	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/19/18 00:30	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/19/18 00:30	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/19/18 00:30	
Styrene	ug/L	1.0 U	1.0	0.17	09/19/18 00:30	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/19/18 00:30	
Toluene	ug/L	1.0 U	1.0	0.30	09/19/18 00:30	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

METHOD BLANK: 1530299 Matrix: Water
Associated Lab Samples: 30264615004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/19/18 00:30	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/19/18 00:30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/19/18 00:30	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/19/18 00:30	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/19/18 00:30	CH
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/19/18 00:30	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/19/18 00:30	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/19/18 00:30	
1,2-Dichloroethane-d4 (S)	%.	109	80-120		09/19/18 00:30	
4-Bromofluorobenzene (S)	%.	100	79-129		09/19/18 00:30	
Dibromofluoromethane (S)	%.	105	80-120		09/19/18 00:30	
Toluene-d8 (S)	%.	98	80-120		09/19/18 00:30	

LABORATORY CONTROL SAMPLE: 1530300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	103	70-130	
1,1,1-Trichloroethane	ug/L	20	20.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	92	65-127	
1,1,2-Trichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethene	ug/L	20	22.0	110	70-130	
1,2,3-Trichloropropane	ug/L	20	20.2	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	21.1	106	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	103	70-130	
1,2-Dichlorobenzene	ug/L	20	18.8	94	70-130	
1,2-Dichloroethane	ug/L	20	20.7	103	70-130	
1,2-Dichloropropane	ug/L	20	20.7	104	70-130	
1,4-Dichlorobenzene	ug/L	20	18.2	91	70-130	
2-Butanone (MEK)	ug/L	20	18.2	91	72-170	
2-Hexanone	ug/L	20	17.6	88	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.3	96	66-150	
Acetone	ug/L	20	23.7	119	30-179	
Acrylonitrile	ug/L	20	21.1	105	48-172	
Benzene	ug/L	20	20.6	103	70-130	
Bromochloromethane	ug/L	20	22.5	112	70-130	
Bromodichloromethane	ug/L	20	21.9	109	70-130	
Bromoform	ug/L	20	21.9	109	70-130	
Bromomethane	ug/L	20	21.2	106	47-174	
Carbon disulfide	ug/L	20	19.8	99	43-133	
Carbon tetrachloride	ug/L	20	23.1	115	56-143	
Chlorobenzene	ug/L	20	19.7	98	70-130	
Chloroethane	ug/L	20	19.0	95	67-139	
Chloroform	ug/L	20	20.6	103	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

LABORATORY CONTROL SAMPLE: 1530300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	19.4	97	57-138	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.6	98	70-130	
Dibromochloromethane	ug/L	20	23.1	116	70-130	
Dibromomethane	ug/L	20	22.2	111	70-130	
Ethylbenzene	ug/L	20	20.4	102	70-130	
Iodomethane	ug/L	20	17.3J	87	10-175	
Methyl-tert-butyl ether	ug/L	20	19.1	96	70-130	
Methylene Chloride	ug/L	20	20.1	100	55-144	
Naphthalene	ug/L	20	19.7	98	70-130	
Styrene	ug/L	20	19.7	98	70-130	
Tetrachloroethene	ug/L	20	22.2	111	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.0	95	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.2	81	27-116	
Trichloroethene	ug/L	20	21.8	109	70-130	
Trichlorofluoromethane	ug/L	20	29.1	145	60-148	CH
Vinyl acetate	ug/L	20	18.0	90	30-181	
Vinyl chloride	ug/L	20	22.1	110	70-130	
Xylene (Total)	ug/L	60	60.8	101	70-130	
1,2-Dichloroethane-d4 (S)	%.			103	80-120	
4-Bromofluorobenzene (S)	%.			102	79-129	
Dibromofluoromethane (S)	%.			106	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1530575 1530576

Parameter	Units	30264647038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	22.0	20.3	110	102	51-124	8	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	23.0	23.2	115	116	79-129	1	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.9	19.6	89	98	57-118	9	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.7	19.9	99	100	68-117	1	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	22.0	21.5	110	107	74-119	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	23.7	23.2	118	116	63-126	2	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.1	20.1	96	101	56-129	5	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	19.3	21.5	96	108	53-120	11	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	21.2	20.4	106	102	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.5	19.7	92	98	72-119	6	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	22.6	21.3	113	106	69-116	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	22.5	22.1	113	110	63-118	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	18.3	19.0	91	95	72-118	4	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	21.9	21.0	109	105	72-168	4	30	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264615

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1530575 1530576

Parameter	Units	30264647038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	20.3	18.6	102	93	66-143	9	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.1	21.7	105	109	67-145	3	30	
Acetone	ug/L	6.7J	20	20	23.4	27.4	84	104	15-175	16	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.8	21.7	109	108	36-165	1	30	
Benzene	ug/L	1.0 U	20	20	21.1	20.6	106	103	67-121	2	30	
Bromochloromethane	ug/L	1.0 U	20	20	23.7	21.4	119	107	62-128	10	30	
Bromodichloromethane	ug/L	1.0 U	20	20	24.5	23.4	122	117	66-127	5	30	
Bromoform	ug/L	1.0 U	20	20	20.4	21.4	102	107	71-127	5	30	
Bromomethane	ug/L	1.0 U	20	20	19.6	17.2	98	86	10-156	13	30	
Carbon disulfide	ug/L	1.0 U	20	20	18.8	18.2	94	91	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	27.1	26.2	136	131	69-134	3	30	MH
Chlorobenzene	ug/L	1.0 U	20	20	20.8	20.0	104	100	69-119	4	30	
Chloroethane	ug/L	1.0 U	20	20	23.7	24.7	118	124	60-156	4	30	
Chloroform	ug/L	1.0 U	20	20	20.8	21.0	104	105	69-115	1	30	
Chloromethane	ug/L	1.0 U	20	20	23.0	20.9	115	105	52-145	9	30	
cis-1,2-Dichloroethene	ug/L	0.62J	20	20	22.9	21.6	111	105	65-120	6	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	19.4	19.7	97	99	57-125	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	23.3	22.8	116	114	64-131	2	30	
Dibromomethane	ug/L	1.0 U	20	20	23.2	21.8	116	109	56-133	6	30	
Ethylbenzene	ug/L	1.0 U	20	20	21.5	21.1	107	105	70-127	2	30	
Iodomethane	ug/L	50.0 U	20	20	13.5J	14.0J	67	70	10-152		30	
Methyl-tert-butyl ether	ug/L	0.36J	20	20	19.5	18.5	96	90	79-135	5	30	
Methylene Chloride	ug/L	1.0 U	20	20	22.1	20.1	111	100	54-133	10	30	
Naphthalene	ug/L	2.0 U	20	20	17.3	19.7	87	98	62-131	13	30	
Styrene	ug/L	1.0 U	20	20	19.9	19.7	100	98	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	22.7	22.3	114	111	77-125	2	30	
Toluene	ug/L	1.0 U	20	20	20.1	18.7	100	94	77-125	7	30	
trans-1,2-Dichloroethene	ug/L	1.1	20	20	23.0	21.8	109	103	70-119	5	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.8	18.2	94	91	52-125	3	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	13.1	14.3	65	72	13-100	9	30	
Trichloroethene	ug/L	0.49J	20	20	22.5	22.2	110	109	74-128	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	45.4	42.4	227	212	54-164	7	30	CH,MH
Vinyl acetate	ug/L	10.0 U	20	20	21.5	20.8	107	104	15-173	3	30	
Vinyl chloride	ug/L	1.0 U	20	20	25.8	25.9	128	128	60-131	0	30	
Xylene (Total)	ug/L	3.0 U	60	60	63.1	62.9	105	105	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						115	117	80-120			
4-Bromofluorobenzene (S)	%.						102	110	79-129			
Dibromofluoromethane (S)	%.						104	105	80-120			
Toluene-d8 (S)	%.						97	97	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: COA IM GW
Pace Project No.: 30264615

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW
Pace Project No.: 30264615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30264615001	**Trip Blank 2**	EPA 8260B	313164		
30264615002	**C0101-PZM**	EPA 8260B	313164		
30264615003	**C0104-PZMXXX**	EPA 8260B	313164		
30264615004	**C0102-PZMXXX**	EPA 8260B	313449		

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	EnviroAnalytics Group
Address:	1430 Sparrows Point Blvd
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5 day

Section B Required Project Information:

Report To:	James Calenda
Copy To:	
PO Number:	
Project Name:	COA IM GW
Project Number:	180227-1-2

Section C Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	DI Water	Analysis Test Y/N	VOC/8260B	SVOC 8270D	DRO/8015B	GRO/8015B	METALS/6010C	Mercury/7471A or 7470A	Hexavalent Chromium/7196A	Total Cyanide/9012A	PCB/8082 (soil)	Naphthalene	Oil and Grease/1664A (aq)	Oil and Grease/9071B (soil)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank 2	WT	G			9-7-18	—		2				2																	001
2	C0101-PZM	WT	G				1425		3				3						X							X					002
3	C0104-PZMXXX	WT	G				1505		3				3						X							X					003
4	C0102-PZMXXX	WT	G				1540		3				3						X							X					004
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

WO#: 30264615

30264615

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Data Package Required? (Y/N): Y		9-7-18	1600		9/10/18	1600
Data Validation Required? (Y/N): Y		9/10/18	1830		9-10-18	2000
If data package is required, attach data package checklist.		9-10-18	2350		9/10/18	2350

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3.1	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: Lisa Perrin DATE Signed (MM/DD/YY): 9-10-18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

30264615

Face Analytical

Client Name: enviroanalytics

Project # ~~-046 15

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BJH

LIMS Login BJH

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 3.1 °C Correction Factor: +0.0 °C Final Temp: 3.1 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: BJH 9/11/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenolics			✓	16. Initial when completed BJH Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present: Trip Blank Custody Seals Present	✓			18.
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BJH Date: 9/11/18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

September 20, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW
Pace Project No.: 30264757

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW
Pace Project No.: 30264757

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW
Pace Project No.: 30264757

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30264757001	**Trip Blank**	Water	09/11/18 00:00	09/12/18 00:15
30264757002	**CO103-PZMXXX**	Water	09/11/18 09:10	09/12/18 00:15
30264757003	**CO30-PZM015**	Water	09/11/18 10:10	09/12/18 00:15
30264757004	**CO30-PZM060**	Water	09/11/18 10:45	09/12/18 00:15
30264757005	**CO24-PZM007**	Water	09/11/18 11:30	09/12/18 00:15
30264757006	**CO23-PZM008**	Water	09/11/18 12:25	09/12/18 00:15
30264757007	**CO58-PZM001**	Water	09/11/18 14:30	09/12/18 00:15
30264757008	**CO56-PZM001**	Water	09/11/18 15:00	09/12/18 00:15

"XXX" removed from sample 002,
Sample 008 changed to CO56-PZP001

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SAMPLE ANALYTE COUNT

Project: COA IM GW
Pace Project No.: 30264757

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30264757001	**Trip Blank**	EPA 8260B	MAK	53
30264757002	**CO103-PZMXXX**	EPA 8260B	MAK	53
30264757003	**CO30-PZM015**	EPA 8260B	MAK	53
30264757004	**CO30-PZM060**	EPA 8260B	MAK	53
30264757005	**CO24-PZM007**	EPA 8260B	MAK	53
30264757006	**CO23-PZM008**	EPA 8260B	MAK	53
30264757007	**CO58-PZM001**	EPA 8260B	MAK	53
30264757008	**CO56-PZM001**	EPA 8260B	MAK	53

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PROJECT NARRATIVE

Project: COA IM GW
Pace Project No.: 30264757

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: September 20, 2018

General Information:
8 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: 313164

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1529373)
  - Trichlorofluoromethane
- CO103-PZMXXX (Lab ID: 30264757002)
  - Trichlorofluoromethane
- CO30-PZM015 (Lab ID: 30264757003)
  - Trichlorofluoromethane
- LCS (Lab ID: 1529374)
  - Trichlorofluoromethane
- MS (Lab ID: 1529375)
  - Trichlorofluoromethane
- MSD (Lab ID: 1529376)
  - Trichlorofluoromethane

QC Batch: 313165

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1529377)
  - Trichlorofluoromethane
- CO23-PZM008 (Lab ID: 30264757006)
  - Trichlorofluoromethane
- CO24-PZM007 (Lab ID: 30264757005)
  - Trichlorofluoromethane
- CO30-PZM060 (Lab ID: 30264757004)
  - Trichlorofluoromethane
- CO56-PZM001 (Lab ID: 30264757008)
  - Trichlorofluoromethane
- CO58-PZM001 (Lab ID: 30264757007)
  - Trichlorofluoromethane
- LCS (Lab ID: 1529378)
  - Trichlorofluoromethane
- MS (Lab ID: 1529592)
  - Trichlorofluoromethane

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PROJECT NARRATIVE

Project: COA IM GW
Pace Project No.: 30264757

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: September 20, 2018

QC Batch: 313165

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
- MSD (Lab ID: 1529593)
  - Trichlorofluoromethane
- Trip Blank (Lab ID: 30264757001)
  - Trichlorofluoromethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 313164

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.
- MS (Lab ID: 1529375)
  - 1,2-Dichloroethane-d4 (S)
- MSD (Lab ID: 1529376)
  - 1,2-Dichloroethane-d4 (S)

QC Batch: 313165

S0: Surrogate recovery outside laboratory control limits.
- CO24-PZM007 (Lab ID: 30264757005)
  - Dibromofluoromethane (S)

ST: Surrogate recovery was above laboratory control limits. Results may be biased high.
- CO23-PZM008 (Lab ID: 30264757006)
  - 1,2-Dichloroethane-d4 (S)
  - Dibromofluoromethane (S)
- CO24-PZM007 (Lab ID: 30264757005)
  - 1,2-Dichloroethane-d4 (S)
- CO58-PZM001 (Lab ID: 30264757007)
  - 1,2-Dichloroethane-d4 (S)
  - Dibromofluoromethane (S)
- Trip Blank (Lab ID: 30264757001)
  - Dibromofluoromethane (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 313164

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
- LCS (Lab ID: 1529374)

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PROJECT NARRATIVE

Project: COA IM GW
Pace Project No.: 30264757

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: September 20, 2018

QC Batch: 313164

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- Trichlorofluoromethane

QC Batch: 313165

L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

- LCS (Lab ID: 1529378)
  - Trichlorofluoromethane

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 313164

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30264647007

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1529375)
  - Trichlorofluoromethane
- MSD (Lab ID: 1529376)
  - Carbon tetrachloride
  - Trichlorofluoromethane

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1529375)
  - 2-Butanone (MEK)

QC Batch: 313165

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30264647017

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 1529592)
  - Trichlorofluoromethane
- MSD (Lab ID: 1529593)
  - Carbon tetrachloride
  - Trichlorofluoromethane

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1529592)
  - 2-Butanone (MEK)

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: Trip Blank **Lab ID: 30264757001** Collected: 09/11/18 00:00 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**5.7J**	ug/L	5.0	2.8	1		09/17/18 11:18	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/17/18 11:18	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/17/18 11:18	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 11:18	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/17/18 11:18	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 11:18	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/17/18 11:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		09/17/18 11:18	78-93-3	
Carbon disulfide	**0.37J**	ug/L	1.0	0.32	1		09/17/18 11:18	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 11:18	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/17/18 11:18	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/17/18 11:18	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 11:18	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/17/18 11:18	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		09/17/18 11:18	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/17/18 11:18	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 11:18	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/17/18 11:18	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/17/18 11:18	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 11:18	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		09/17/18 11:18	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/17/18 11:18	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 11:18	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 11:18	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/17/18 11:18	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/17/18 11:18	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/17/18 11:18	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 11:18	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/17/18 11:18	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 11:18	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.66	1		09/17/18 11:18	591-78-6	
Iodomethane	ND	ug/L	1.0	0.67	1		09/17/18 11:18	74-88-4	
Methylene Chloride	**1.1**	ug/L	1.0	0.77	1		09/17/18 11:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		09/17/18 11:18	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/17/18 11:18	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/17/18 11:18	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/17/18 11:18	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/17/18 11:18	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 11:18	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 11:18	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 11:18	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 11:18	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 11:18	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/17/18 11:18	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 11:18	75-69-4	CH,L1
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/17/18 11:18	96-18-4	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: Trip Blank **Lab ID: 30264757001** Collected: 09/11/18 00:00 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	ND	ug/L	2.0	0.51	1		09/17/18 11:18	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 11:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		09/17/18 11:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		1		09/17/18 11:18	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%.	80-120		1		09/17/18 11:18	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		09/17/18 11:18	2037-26-5	
Dibromofluoromethane (S)	124	%.	80-120		1		09/17/18 11:18	1868-53-7	ST

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO103-PZMXXX **Lab ID: 30264757002** Collected: 09/11/18 09:10 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**16.5J**	ug/L	50.0	14.2	5		09/17/18 18:19	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/17/18 18:19	107-13-1	
Benzene	**837**	ug/L	5.0	1.2	5		09/17/18 18:19	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:19	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:19	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:19	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/17/18 18:19	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/17/18 18:19	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:19	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:19	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/17/18 18:19	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 18:19	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/17/18 18:19	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/17/18 18:19	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/17/18 18:19	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:19	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:19	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/17/18 18:19	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/17/18 18:19	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:19	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/17/18 18:19	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/17/18 18:19	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:19	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:19	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/17/18 18:19	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/17/18 18:19	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:19	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:19	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/17/18 18:19	10061-02-6	
Ethylbenzene	**2.3J**	ug/L	5.0	1.6	5		09/17/18 18:19	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/17/18 18:19	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/17/18 18:19	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/17/18 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/17/18 18:19	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:19	1634-04-4	
Naphthalene	**82.3**	ug/L	10.0	4.1	5		09/17/18 18:19	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		09/17/18 18:19	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 18:19	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:19	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:19	127-18-4	
Toluene	**59.3**	ug/L	5.0	1.5	5		09/17/18 18:19	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:19	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:19	79-00-5	
Trichloroethene	**6.8**	ug/L	5.0	2.0	5		09/17/18 18:19	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:19	75-69-4	CH,L1
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/17/18 18:19	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO103-PZMXXX **Lab ID: 30264757002** Collected: 09/11/18 09:10 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/17/18 18:19	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:19	75-01-4	
Xylene (Total)	**27.8**	ug/L	15.0	3.9	5		09/17/18 18:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	110	%.	79-129		5		09/17/18 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%.	80-120		5		09/17/18 18:19	17060-07-0	
Toluene-d8 (S)	90	%.	80-120		5		09/17/18 18:19	2037-26-5	
Dibromofluoromethane (S)	113	%.	80-120		5		09/17/18 18:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO30-PZM015 **Lab ID: 30264757003** Collected: 09/11/18 10:10 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/17/18 19:11	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/17/18 19:11	107-13-1	
Benzene	**25500**	ug/L	500	120	500		09/17/18 19:36	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 19:11	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 19:11	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 19:11	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/17/18 19:11	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/17/18 19:11	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 19:11	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 19:11	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/17/18 19:11	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 19:11	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/17/18 19:11	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/17/18 19:11	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/17/18 19:11	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 19:11	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 19:11	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/17/18 19:11	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/17/18 19:11	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 19:11	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/17/18 19:11	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/17/18 19:11	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 19:11	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 19:11	75-35-4	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/17/18 19:11	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/17/18 19:11	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 19:11	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 19:11	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/17/18 19:11	10061-02-6	
Ethylbenzene	**39.9**	ug/L	5.0	1.6	5		09/17/18 19:11	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/17/18 19:11	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/17/18 19:11	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/17/18 19:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/17/18 19:11	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 19:11	1634-04-4	
Naphthalene	**1020**	ug/L	10.0	4.1	5		09/17/18 19:11	91-20-3	
Styrene	**5.4**	ug/L	5.0	0.85	5		09/17/18 19:11	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 19:11	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 19:11	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 19:11	127-18-4	
Toluene	**1410**	ug/L	5.0	1.5	5		09/17/18 19:11	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 19:11	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 19:11	79-00-5	
Trichloroethene	**4.7J**	ug/L	5.0	2.0	5		09/17/18 19:11	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 19:11	75-69-4	CH,L1
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/17/18 19:11	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO30-PZM015 **Lab ID: 30264757003** Collected: 09/11/18 10:10 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/17/18 19:11	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 19:11	75-01-4	
Xylene (Total)	**572**	ug/L	15.0	3.9	5		09/17/18 19:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	112	%.	79-129		5		09/17/18 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%.	80-120		5		09/17/18 19:11	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		5		09/17/18 19:11	2037-26-5	
Dibromofluoromethane (S)	107	%.	80-120		5		09/17/18 19:11	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO30-PZM060 **Lab ID: 30264757004** Collected: 09/11/18 10:45 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**10.0 U**	ug/L	10.0	2.8	1		09/17/18 13:25	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/17/18 13:25	107-13-1	
Benzene	**80.4**	ug/L	1.0	0.24	1		09/17/18 13:25	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 13:25	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/17/18 13:25	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 13:25	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/17/18 13:25	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/17/18 13:25	78-93-3	
Carbon disulfide	**0.38J**	ug/L	1.0	0.32	1		09/17/18 13:25	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 13:25	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/17/18 13:25	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/17/18 13:25	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 13:25	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/17/18 13:25	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/17/18 13:25	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/17/18 13:25	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 13:25	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/17/18 13:25	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/17/18 13:25	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 13:25	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/17/18 13:25	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/17/18 13:25	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 13:25	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 13:25	75-35-4	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/17/18 13:25	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/17/18 13:25	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/17/18 13:25	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 13:25	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/17/18 13:25	10061-02-6	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 13:25	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/17/18 13:25	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/17/18 13:25	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/17/18 13:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/17/18 13:25	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/17/18 13:25	1634-04-4	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/17/18 13:25	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/17/18 13:25	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/17/18 13:25	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 13:25	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 13:25	127-18-4	
Toluene	**1.8**	ug/L	1.0	0.30	1		09/17/18 13:25	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 13:25	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 13:25	79-00-5	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/17/18 13:25	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 13:25	75-69-4	CH,L1
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/17/18 13:25	96-18-4	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO30-PZM060 **Lab ID: 30264757004** Collected: 09/11/18 10:45 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/17/18 13:25	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 13:25	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		09/17/18 13:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	79-129		1		09/17/18 13:25	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	80-120		1		09/17/18 13:25	17060-07-0	
Toluene-d8 (S)	91	%.	80-120		1		09/17/18 13:25	2037-26-5	
Dibromofluoromethane (S)	117	%.	80-120		1		09/17/18 13:25	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO24-PZM007 **Lab ID: 30264757005** Collected: 09/11/18 11:30 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**9.0J**	ug/L	10.0	2.8	1		09/17/18 17:15	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/17/18 17:15	107-13-1	
Benzene	**2.9**	ug/L	1.0	0.24	1		09/17/18 17:15	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 17:15	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/17/18 17:15	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 17:15	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/17/18 17:15	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/17/18 17:15	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 17:15	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 17:15	56-23-5	
Chlorobenzene	**0.35J**	ug/L	1.0	0.15	1		09/17/18 17:15	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/17/18 17:15	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 17:15	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/17/18 17:15	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/17/18 17:15	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/17/18 17:15	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 17:15	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/17/18 17:15	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/17/18 17:15	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 17:15	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/17/18 17:15	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/17/18 17:15	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 17:15	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 17:15	75-35-4	
cis-1,2-Dichloroethene	**0.78J**	ug/L	1.0	0.18	1		09/17/18 17:15	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/17/18 17:15	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/17/18 17:15	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 17:15	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/17/18 17:15	10061-02-6	
Ethylbenzene	**8.6**	ug/L	1.0	0.31	1		09/17/18 17:15	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/17/18 17:15	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/17/18 17:15	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/17/18 17:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/17/18 17:15	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/17/18 17:15	1634-04-4	
Naphthalene	**3860**	ug/L	40.0	16.4	20		09/17/18 17:41	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/17/18 17:15	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/17/18 17:15	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 17:15	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 17:15	127-18-4	
Toluene	**2.5**	ug/L	1.0	0.30	1		09/17/18 17:15	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 17:15	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 17:15	79-00-5	
Trichloroethene	**1.5**	ug/L	1.0	0.39	1		09/17/18 17:15	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 17:15	75-69-4	CH,L1
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/17/18 17:15	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO24-PZM007 **Lab ID: 30264757005** Collected: 09/11/18 11:30 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/17/18 17:15	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 17:15	75-01-4	
Xylene (Total)	**11.5**	ug/L	3.0	0.78	1		09/17/18 17:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		1		09/17/18 17:15	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%.	80-120		1		09/17/18 17:15	17060-07-0	ST
Toluene-d8 (S)	95	%.	80-120		1		09/17/18 17:15	2037-26-5	
Dibromofluoromethane (S)	124	%.	80-120		1		09/17/18 17:15	1868-53-7	S0

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO23-PZM008 **Lab ID: 30264757006** Collected: 09/11/18 12:25 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**17.7J**	ug/L	50.0	14.2	5		09/17/18 18:07	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/17/18 18:07	107-13-1	
Benzene	**163**	ug/L	5.0	1.2	5		09/17/18 18:07	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:07	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:07	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:07	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/17/18 18:07	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/17/18 18:07	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:07	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:07	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/17/18 18:07	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 18:07	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/17/18 18:07	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/17/18 18:07	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/17/18 18:07	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:07	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:07	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/17/18 18:07	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/17/18 18:07	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:07	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/17/18 18:07	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/17/18 18:07	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:07	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:07	75-35-4	
cis-1,2-Dichloroethene	**2.2J**	ug/L	5.0	0.90	5		09/17/18 18:07	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/17/18 18:07	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:07	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:07	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/17/18 18:07	10061-02-6	
Ethylbenzene	**10.0**	ug/L	5.0	1.6	5		09/17/18 18:07	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/17/18 18:07	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/17/18 18:07	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/17/18 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/17/18 18:07	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:07	1634-04-4	
Naphthalene	**3870**	ug/L	200	82.0	100		09/17/18 18:32	91-20-3	
Styrene	**5.7**	ug/L	5.0	0.85	5		09/17/18 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:07	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:07	127-18-4	
Toluene	**20.3**	ug/L	5.0	1.5	5		09/17/18 18:07	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:07	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:07	79-00-5	
Trichloroethene	**3.6J**	ug/L	5.0	2.0	5		09/17/18 18:07	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:07	75-69-4	CH,L1
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/17/18 18:07	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO23-PZM008 **Lab ID: 30264757006** Collected: 09/11/18 12:25 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/17/18 18:07	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:07	75-01-4	
Xylene (Total)	**152**	ug/L	15.0	3.9	5		09/17/18 18:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		5		09/17/18 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	127	%.	80-120		5		09/17/18 18:07	17060-07-0	ST
Toluene-d8 (S)	93	%.	80-120		5		09/17/18 18:07	2037-26-5	
Dibromofluoromethane (S)	125	%.	80-120		5		09/17/18 18:07	1868-53-7	ST

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO58-PZM001 **Lab ID: 30264757007** Collected: 09/11/18 14:30 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**3.4J**	ug/L	10.0	2.8	1		09/17/18 19:49	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/17/18 19:49	107-13-1	
Benzene	**41.4**	ug/L	1.0	0.24	1		09/17/18 19:49	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 19:49	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/17/18 19:49	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 19:49	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/17/18 19:49	74-83-9	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/17/18 19:49	78-93-3	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 19:49	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 19:49	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/17/18 19:49	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/17/18 19:49	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/17/18 19:49	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/17/18 19:49	74-87-3	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/17/18 19:49	96-12-8	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/17/18 19:49	124-48-1	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 19:49	106-93-4	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/17/18 19:49	74-95-3	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/17/18 19:49	95-50-1	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 19:49	106-46-7	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/17/18 19:49	110-57-6	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/17/18 19:49	75-34-3	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 19:49	107-06-2	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 19:49	75-35-4	
cis-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.18	1		09/17/18 19:49	156-59-2	
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/17/18 19:49	156-60-5	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/17/18 19:49	78-87-5	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/17/18 19:49	10061-01-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/17/18 19:49	10061-02-6	
Ethylbenzene	**2.4**	ug/L	1.0	0.31	1		09/17/18 19:49	100-41-4	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/17/18 19:49	591-78-6	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/17/18 19:49	74-88-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/17/18 19:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/17/18 19:49	108-10-1	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/17/18 19:49	1634-04-4	
Naphthalene	**681**	ug/L	40.0	16.4	20		09/17/18 20:14	91-20-3	
Styrene	**2.8**	ug/L	1.0	0.17	1		09/17/18 19:49	100-42-5	
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/17/18 19:49	630-20-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/17/18 19:49	79-34-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/17/18 19:49	127-18-4	
Toluene	**13.3**	ug/L	1.0	0.30	1		09/17/18 19:49	108-88-3	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 19:49	71-55-6	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/17/18 19:49	79-00-5	
Trichloroethene	**0.52J**	ug/L	1.0	0.39	1		09/17/18 19:49	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/17/18 19:49	75-69-4	CH,L1
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/17/18 19:49	96-18-4	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO58-PZM001 **Lab ID: 30264757007** Collected: 09/11/18 14:30 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/17/18 19:49	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/17/18 19:49	75-01-4	
Xylene (Total)	**42.4**	ug/L	3.0	0.78	1		09/17/18 19:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	79-129		1		09/17/18 19:49	460-00-4	
1,2-Dichloroethane-d4 (S)	122	%.	80-120		1		09/17/18 19:49	17060-07-0	ST
Toluene-d8 (S)	90	%.	80-120		1		09/17/18 19:49	2037-26-5	
Dibromofluoromethane (S)	122	%.	80-120		1		09/17/18 19:49	1868-53-7	ST

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO56-PZM001 **Lab ID: 30264757008** Collected: 09/11/18 15:00 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Acetone	**18.0J**	ug/L	50.0	14.2	5		09/17/18 18:58	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/17/18 18:58	107-13-1	
Benzene	**192**	ug/L	5.0	1.2	5		09/17/18 18:58	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:58	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:58	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:58	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/17/18 18:58	74-83-9	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/17/18 18:58	78-93-3	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:58	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:58	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/17/18 18:58	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 18:58	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/17/18 18:58	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/17/18 18:58	74-87-3	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/17/18 18:58	96-12-8	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:58	124-48-1	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:58	106-93-4	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/17/18 18:58	74-95-3	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/17/18 18:58	95-50-1	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:58	106-46-7	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/17/18 18:58	110-57-6	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/17/18 18:58	75-34-3	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:58	107-06-2	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:58	75-35-4	
cis-1,2-Dichloroethene	**1.4J**	ug/L	5.0	0.90	5		09/17/18 18:58	156-59-2	
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/17/18 18:58	156-60-5	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:58	78-87-5	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:58	10061-01-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/17/18 18:58	10061-02-6	
Ethylbenzene	**8.5**	ug/L	5.0	1.6	5		09/17/18 18:58	100-41-4	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/17/18 18:58	591-78-6	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/17/18 18:58	74-88-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/17/18 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/17/18 18:58	108-10-1	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/17/18 18:58	1634-04-4	
Naphthalene	**1870**	ug/L	10.0	4.1	5		09/17/18 18:58	91-20-3	
Styrene	**34.6**	ug/L	5.0	0.85	5		09/17/18 18:58	100-42-5	
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/17/18 18:58	630-20-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/17/18 18:58	79-34-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:58	127-18-4	
Toluene	**18.3**	ug/L	5.0	1.5	5		09/17/18 18:58	108-88-3	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:58	71-55-6	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/17/18 18:58	79-00-5	
Trichloroethene	**2.3J**	ug/L	5.0	2.0	5		09/17/18 18:58	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/17/18 18:58	75-69-4	CH,L1
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/17/18 18:58	96-18-4	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264757

Sample: CO56-PZM001 **Lab ID: 30264757008** Collected: 09/11/18 15:00 Received: 09/12/18 00:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/17/18 18:58	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/17/18 18:58	75-01-4	
Xylene (Total)	**190**	ug/L	15.0	3.9	5		09/17/18 18:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		5		09/17/18 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%.	80-120		5		09/17/18 18:58	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		5		09/17/18 18:58	2037-26-5	
Dibromofluoromethane (S)	113	%.	80-120		5		09/17/18 18:58	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

QC Batch: 313164 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30264757002, 30264757003

METHOD BLANK: 1529373 Matrix: Water
Associated Lab Samples: 30264757002, 30264757003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/17/18 11:06	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/17/18 11:06	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/17/18 11:06	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/17/18 11:06	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/17/18 11:06	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/17/18 11:06	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/17/18 11:06	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/17/18 11:06	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/17/18 11:06	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/17/18 11:06	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/17/18 11:06	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/17/18 11:06	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/17/18 11:06	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/17/18 11:06	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/17/18 11:06	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/17/18 11:06	
Acetone	ug/L	10.0 U	10.0	2.8	09/17/18 11:06	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/17/18 11:06	
Benzene	ug/L	1.0 U	1.0	0.24	09/17/18 11:06	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/17/18 11:06	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/17/18 11:06	
Bromoform	ug/L	1.0 U	1.0	0.32	09/17/18 11:06	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/17/18 11:06	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/17/18 11:06	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/17/18 11:06	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/17/18 11:06	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/17/18 11:06	
Chloroform	ug/L	1.0 U	1.0	0.30	09/17/18 11:06	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/17/18 11:06	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/17/18 11:06	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/17/18 11:06	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/17/18 11:06	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/17/18 11:06	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/17/18 11:06	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/17/18 11:06	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/17/18 11:06	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/17/18 11:06	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/17/18 11:06	
Styrene	ug/L	1.0 U	1.0	0.17	09/17/18 11:06	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/17/18 11:06	
Toluene	ug/L	1.0 U	1.0	0.30	09/17/18 11:06	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

METHOD BLANK: 1529373 Matrix: Water
Associated Lab Samples: 30264757002, 30264757003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/17/18 11:06	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/17/18 11:06	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/17/18 11:06	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/17/18 11:06	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/17/18 11:06	CH
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/17/18 11:06	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/17/18 11:06	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/17/18 11:06	
1,2-Dichloroethane-d4 (S)	%.	117	80-120		09/17/18 11:06	
4-Bromofluorobenzene (S)	%.	107	79-129		09/17/18 11:06	
Dibromofluoromethane (S)	%.	117	80-120		09/17/18 11:06	
Toluene-d8 (S)	%.	93	80-120		09/17/18 11:06	

LABORATORY CONTROL SAMPLE: 1529374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.6	103	70-130	
1,1,1-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	88	65-127	
1,1,2-Trichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethane	ug/L	20	16.1	80	70-130	
1,1-Dichloroethene	ug/L	20	17.8	89	70-130	
1,2,3-Trichloropropane	ug/L	20	19.6	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	21.7	109	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.0	100	70-130	
1,2-Dichlorobenzene	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane	ug/L	20	19.6	98	70-130	
1,2-Dichloropropane	ug/L	20	17.1	85	70-130	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	20	19.3	96	72-170	
2-Hexanone	ug/L	20	16.3	81	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.3	92	66-150	
Acetone	ug/L	20	22.5	113	30-179	
Acrylonitrile	ug/L	20	17.7	88	48-172	
Benzene	ug/L	20	17.6	88	70-130	
Bromochloromethane	ug/L	20	20.9	105	70-130	
Bromodichloromethane	ug/L	20	21.1	105	70-130	
Bromoform	ug/L	20	23.3	116	70-130	
Bromomethane	ug/L	20	22.7	113	47-174	
Carbon disulfide	ug/L	20	20.0	100	43-133	
Carbon tetrachloride	ug/L	20	22.2	111	56-143	
Chlorobenzene	ug/L	20	18.1	91	70-130	
Chloroethane	ug/L	20	19.7	98	67-139	
Chloroform	ug/L	20	19.0	95	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

LABORATORY CONTROL SAMPLE: 1529374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	15.2	76	57-138	
cis-1,2-Dichloroethene	ug/L	20	16.0	80	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.4	92	70-130	
Dibromochloromethane	ug/L	20	22.6	113	70-130	
Dibromomethane	ug/L	20	21.1	106	70-130	
Ethylbenzene	ug/L	20	18.3	92	70-130	
Iodomethane	ug/L	20	14.8J	74	10-175	
Methyl-tert-butyl ether	ug/L	20	20.6	103	70-130	
Methylene Chloride	ug/L	20	16.7	83	55-144	
Naphthalene	ug/L	20	19.6	98	70-130	
Styrene	ug/L	20	18.7	94	70-130	
Tetrachloroethene	ug/L	20	19.5	97	70-130	
Toluene	ug/L	20	17.0	85	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.4	77	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.2	91	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	17.7	89	27-116	
Trichloroethene	ug/L	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	20	32.3	162	60-148	CH,L1
Vinyl acetate	ug/L	20	18.0	90	30-181	
Vinyl chloride	ug/L	20	19.2	96	70-130	
Xylene (Total)	ug/L	60	56.8	95	70-130	
1,2-Dichloroethane-d4 (S)	%.			114	80-120	
4-Bromofluorobenzene (S)	%.			100	79-129	
Dibromofluoromethane (S)	%.			117	80-120	
Toluene-d8 (S)	%.			94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529375 1529376

Parameter	Units	30264647007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.2	21.4	96	107	51-124	11	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	22.5	24.0	113	120	79-129	6	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.3	17.9	81	90	57-118	10	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	18.2	19.4	91	97	68-117	6	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.0	19.3	90	96	74-119	7	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	19.1	20.2	96	101	63-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.8	20.7	99	103	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	19.9	19.7	99	98	53-120	1	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.4	20.1	97	101	69-124	4	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.7	19.5	93	98	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	21.6	23.0	108	115	69-116	6	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.8	18.2	79	91	63-118	14	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.9	19.5	89	98	72-118	9	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.9	14.5	69	73	72-168	4	30	ML

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529375 1529376

Parameter	Units	30264647007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	13.1	15.0	66	75	66-143	13	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	16.4	17.7	82	89	67-145	8	30	
Acetone	ug/L	4.7J	20	20	18.0	19.1	67	72	15-175	6	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.0	15.5	70	77	36-165	10	30	
Benzene	ug/L	1.0 U	20	20	19.3	20.1	97	100	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.2	24.4	101	122	62-128	19	30	
Bromodichloromethane	ug/L	1.0 U	20	20	23.1	23.9	115	119	66-127	3	30	
Bromoform	ug/L	1.0 U	20	20	20.1	22.4	101	112	71-127	11	30	
Bromomethane	ug/L	1.0 U	20	20	16.5	19.0	83	95	10-156	14	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.5	17.8	82	88	45-131	7	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	24.6	27.3	123	136	69-134	10	30	MH
Chlorobenzene	ug/L	1.0 U	20	20	18.8	20.6	94	103	69-119	9	30	
Chloroethane	ug/L	1.0 U	20	20	22.9	23.6	114	118	60-156	3	30	
Chloroform	ug/L	1.0 U	20	20	20.4	21.7	102	108	69-115	6	30	
Chloromethane	ug/L	1.0 U	20	20	14.1	14.2	70	71	52-145	1	30	
cis-1,2-Dichloroethene	ug/L	1.4	20	20	18.3	19.6	84	91	65-120	7	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.0	19.7	85	99	57-125	15	30	
Dibromochloromethane	ug/L	1.0 U	20	20	22.0	24.1	110	120	64-131	9	30	
Dibromomethane	ug/L	1.0 U	20	20	21.2	22.7	106	113	56-133	7	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.0	19.6	95	98	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	10.8J	15.6J	54	78	10-152		30	
Methyl-tert-butyl ether	ug/L	7.3	20	20	25.1	25.6	89	91	79-135	2	30	
Methylene Chloride	ug/L	1.0 U	20	20	17.7	18.7	88	94	54-133	6	30	
Naphthalene	ug/L	2.0 U	20	20	16.6	18.5	83	93	62-131	11	30	
Styrene	ug/L	1.0 U	20	20	18.0	19.4	90	97	65-121	8	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.4	21.7	102	108	77-125	6	30	
Toluene	ug/L	1.0 U	20	20	17.9	18.5	90	92	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.0	18.5	85	93	70-119	8	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.0	18.7	85	93	52-125	10	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	9.4	11.1	47	55	13-100	17	30	
Trichloroethene	ug/L	7.3	20	20	27.7	30.0	102	114	74-128	8	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	41.4	43.3	207	217	54-164	5	30	CH,MH
Vinyl acetate	ug/L	10.0 U	20	20	13.9	15.1	70	76	15-173	8	30	
Vinyl chloride	ug/L	1.0 U	20	20	20.0	19.8	100	99	60-131	1	30	
Xylene (Total)	ug/L	3.0 U	60	60	57.8	60.0	96	100	69-128	4	30	
1,2-Dichloroethane-d4 (S)	%.						121	121	80-120			ST
4-Bromofluorobenzene (S)	%.						102	107	79-129			
Dibromofluoromethane (S)	%.						113	113	80-120			
Toluene-d8 (S)	%.						91	94	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

QC Batch: 313165 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30264757001, 30264757004, 30264757005, 30264757006, 30264757007, 30264757008

METHOD BLANK: 1529377 Matrix: Water
Associated Lab Samples: 30264757001, 30264757004, 30264757005, 30264757006, 30264757007, 30264757008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/17/18 10:53	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/17/18 10:53	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/17/18 10:53	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/17/18 10:53	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/17/18 10:53	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/17/18 10:53	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/17/18 10:53	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/17/18 10:53	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/17/18 10:53	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/17/18 10:53	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/17/18 10:53	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/17/18 10:53	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/17/18 10:53	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/17/18 10:53	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/17/18 10:53	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/17/18 10:53	
Acetone	ug/L	10.0 U	10.0	2.8	09/17/18 10:53	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/17/18 10:53	
Benzene	ug/L	1.0 U	1.0	0.24	09/17/18 10:53	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/17/18 10:53	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/17/18 10:53	
Bromoform	ug/L	1.0 U	1.0	0.32	09/17/18 10:53	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/17/18 10:53	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/17/18 10:53	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/17/18 10:53	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/17/18 10:53	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/17/18 10:53	
Chloroform	ug/L	1.0 U	1.0	0.30	09/17/18 10:53	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/17/18 10:53	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/17/18 10:53	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/17/18 10:53	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/17/18 10:53	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/17/18 10:53	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/17/18 10:53	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/17/18 10:53	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/17/18 10:53	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/17/18 10:53	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/17/18 10:53	
Styrene	ug/L	1.0 U	1.0	0.17	09/17/18 10:53	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/17/18 10:53	
Toluene	ug/L	1.0 U	1.0	0.30	09/17/18 10:53	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

METHOD BLANK: 1529377 Matrix: Water
Associated Lab Samples: 30264757001, 30264757004, 30264757005, 30264757006, 30264757007, 30264757008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/17/18 10:53	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/17/18 10:53	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/17/18 10:53	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/17/18 10:53	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/17/18 10:53	CH
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/17/18 10:53	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/17/18 10:53	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/17/18 10:53	
1,2-Dichloroethane-d4 (S)	%.	114	80-120		09/17/18 10:53	
4-Bromofluorobenzene (S)	%.	105	79-129		09/17/18 10:53	
Dibromofluoromethane (S)	%.	113	80-120		09/17/18 10:53	
Toluene-d8 (S)	%.	92	80-120		09/17/18 10:53	

LABORATORY CONTROL SAMPLE: 1529378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,1-Trichloroethane	ug/L	20	20.2	101	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethane	ug/L	20	16.4	82	70-130	
1,1-Dichloroethene	ug/L	20	17.3	86	70-130	
1,2,3-Trichloropropane	ug/L	20	21.3	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	20.9	105	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.8	99	70-130	
1,2-Dichlorobenzene	ug/L	20	21.1	106	70-130	
1,2-Dichloroethane	ug/L	20	19.8	99	70-130	
1,2-Dichloropropane	ug/L	20	16.0	80	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	20	17.5	87	72-170	
2-Hexanone	ug/L	20	15.8	79	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.1	86	66-150	
Acetone	ug/L	20	18.7	94	30-179	
Acrylonitrile	ug/L	20	17.4	87	48-172	
Benzene	ug/L	20	16.4	82	70-130	
Bromochloromethane	ug/L	20	23.7	119	70-130	
Bromodichloromethane	ug/L	20	22.0	110	70-130	
Bromoform	ug/L	20	23.9	119	70-130	
Bromomethane	ug/L	20	24.0	120	47-174	
Carbon disulfide	ug/L	20	20.5	103	43-133	
Carbon tetrachloride	ug/L	20	23.1	115	56-143	
Chlorobenzene	ug/L	20	18.4	92	70-130	
Chloroethane	ug/L	20	21.5	108	67-139	
Chloroform	ug/L	20	17.5	88	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

LABORATORY CONTROL SAMPLE: 1529378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.9	84	57-138	
cis-1,2-Dichloroethene	ug/L	20	15.9	79	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.7	83	70-130	
Dibromochloromethane	ug/L	20	22.3	112	70-130	
Dibromomethane	ug/L	20	21.2	106	70-130	
Ethylbenzene	ug/L	20	18.2	91	70-130	
Iodomethane	ug/L	20	14.5J	72	10-175	
Methyl-tert-butyl ether	ug/L	20	20.5	103	70-130	
Methylene Chloride	ug/L	20	15.6	78	55-144	
Naphthalene	ug/L	20	20.3	101	70-130	
Styrene	ug/L	20	19.9	100	70-130	
Tetrachloroethene	ug/L	20	17.7	89	70-130	
Toluene	ug/L	20	16.5	83	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	18.6	93	27-116	
Trichloroethene	ug/L	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	20	29.8	149	60-148	CH,L1
Vinyl acetate	ug/L	20	15.9	79	30-181	
Vinyl chloride	ug/L	20	21.2	106	70-130	
Xylene (Total)	ug/L	60	56.2	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			108	80-120	
4-Bromofluorobenzene (S)	%.			106	79-129	
Dibromofluoromethane (S)	%.			116	80-120	
Toluene-d8 (S)	%.			92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529592 1529593

Parameter	Units	30264647017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	20.7	21.6	104	108	51-124	4	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	22.9	23.7	114	119	79-129	4	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.4	15.9	87	79	57-118	9	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	18.2	18.3	91	92	68-117	1	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.9	18.4	89	92	74-119	3	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	19.3	20.6	96	103	63-126	7	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	19.1	19.8	96	99	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	17.2	16.3	86	82	53-120	6	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.0	19.5	95	98	69-124	3	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.5	17.8	93	89	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	21.7	22.5	108	113	69-116	4	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	16.9	17.6	85	88	63-118	4	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.5	18.2	97	91	72-118	7	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.2	15.4	66	77	72-168	15	30	ML

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264757

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529592 1529593

Parameter	Units	30264647017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	14.4	14.7	72	74	66-143	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	14.8	16.3	74	81	67-145	9	30	
Acetone	ug/L	4.9J	20	20	18.0	18.8	66	70	15-175	4	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.2	14.7	71	73	36-165	3	30	
Benzene	ug/L	1.0 U	20	20	18.0	18.8	90	94	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	24.1	23.2	121	116	62-128	4	30	
Bromodichloromethane	ug/L	1.0 U	20	20	23.4	25.0	117	125	66-127	7	30	
Bromoform	ug/L	1.0 U	20	20	21.0	19.8	105	99	71-127	6	30	
Bromomethane	ug/L	1.0 U	20	20	18.3	20.9	91	105	10-156	13	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.9	17.2	83	85	45-131	2	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	26.6	27.6	133	138	69-134	4	30	MH
Chlorobenzene	ug/L	1.0 U	20	20	19.1	19.6	95	98	69-119	3	30	
Chloroethane	ug/L	1.0 U	20	20	23.9	22.5	119	113	60-156	6	30	
Chloroform	ug/L	1.0 U	20	20	20.0	20.1	100	101	69-115	0	30	
Chloromethane	ug/L	1.0 U	20	20	16.2	15.8	81	79	52-145	3	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.2	17.1	86	85	65-120	1	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.5	18.7	87	93	57-125	7	30	
Dibromochloromethane	ug/L	1.0 U	20	20	21.5	23.1	107	115	64-131	7	30	
Dibromomethane	ug/L	1.0 U	20	20	20.7	22.9	104	114	56-133	10	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.1	20.1	96	101	70-127	5	30	
Iodomethane	ug/L	50.0 U	20	20	10.6J	11.2J	53	56	10-152		30	
Methyl-tert-butyl ether	ug/L	0.74J	20	20	18.6	19.2	90	92	79-135	3	30	
Methylene Chloride	ug/L	1.0 U	20	20	17.4	17.0	87	85	54-133	2	30	
Naphthalene	ug/L	2.0 U	20	20	21.7	19.4	108	97	62-131	11	30	
Styrene	ug/L	1.0 U	20	20	19.5	19.4	98	97	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	20.8	21.0	104	105	77-125	1	30	
Toluene	ug/L	1.0 U	20	20	17.7	17.6	89	88	77-125	0	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	18.8	18.5	94	92	70-119	1	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	17.3	83	86	52-125	4	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	11.1	11.6	56	58	13-100	4	30	
Trichloroethene	ug/L	1.0 U	20	20	21.1	21.2	104	105	74-128	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	38.5	39.2	193	196	54-164	2	30	CH,MH
Vinyl acetate	ug/L	10.0 U	20	20	13.4	13.6	67	68	15-173	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.3	21.1	96	105	60-131	9	30	
Xylene (Total)	ug/L	3.0 U	60	60	58.8	58.9	98	98	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						116	116	80-120			
4-Bromofluorobenzene (S)	%.						105	95	79-129			
Dibromofluoromethane (S)	%.						113	119	80-120			
Toluene-d8 (S)	%.						95	93	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALIFIERS

Project: COA IM GW
Pace Project No.: 30264757

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
S0	Surrogate recovery outside laboratory control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW
Pace Project No.: 30264757

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30264757001	**Trip Blank**	EPA 8260B	313165		
30264757002	**CO103-PZMXXX**	EPA 8260B	313164		
30264757003	**CO30-PZM015**	EPA 8260B	313164		
30264757004	**CO30-PZM060**	EPA 8260B	313165		
30264757005	**CO24-PZM007**	EPA 8260B	313165		
30264757006	**CO23-PZM008**	EPA 8260B	313165		
30264757007	**CO58-PZM001**	EPA 8260B	313165		
30264757008	**CO56-PZM001**	EPA 8260B	313165		

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WO# : 30264757

30264757

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Company: EnviroAnalytics Group	...ect Information: James Calenda	...a Sargent	
Address: 1430 Sparrows Point Blvd	Copy To:	Company Name: EnviroAnalytics Group	REGULATORY AGENCY
Sparrows Point, MD 21219		Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
Email To: jcalenda@enviroanalyticsgroup.com	PO Number:	Pace Quote Reference:	☐ UST ☐ RCRA ☐ OTHER
Phone: 314-620-3056 Fax:	Project Name: CoA IM GW	Pace Project Manager: Samantha Bayura	Site Location STATE: MD
Requested Due Date/TAT: 5 day	Project Number: 180227M-1-2	Pace Profile #:	

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	DI Water	Analysis Test Y/N	VOC/8260B	SVOC 8270D	DRO/8015B	GRO/8015B	METALS/6010C	Mercury/7471A or 7470A	Hexavalent Chromium/7196A	Total Cyanide/9012A	PCB/8082 (soil)	Naphthalene	Oil and Grease/1664A (ac	Oil and Grease/9071B (soil)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			9-11-18	—		2				2						X													001
2	C0103-PZMXXX	WT	G				910		3				3						X									X				002
3	C030-PZM015	WT	G				1010		3				3						X									X				003
4	C030-PZM060	WT	G				1045		3				3						X									X				004
5	C024-PZM007	WT	G				1130		3				3						X									X				005
6	C023-PZM008	WT	G				1225		3				3						X									X				006
7	C058-PZM001	WT	G				1430		3				3						X									X				007
8	C056-PZP001	WT	G				1500		3				3						X									X				008
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Data Package Required? (Y/N):	[signature]	9-11-18	1600	David L Hillegan Pace	9/11/18	1606				
Data Validation Required? (Y/N):	David L Hillegan Pace	9/11/18	1915	[signature]	9-11-18	2000		✓		
If data package is required, attach data package checklist.	[signature]	9-12-18	015	[signature] BAH	~~9/11/18~~					
					9/12/18	0015	0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Lisa Perrin		
SIGNATURE of SAMPLER:	[signature]	DATE Signed (MM/DD/YY):	9-11-18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.06, 2-Feb-2007

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: enviroAnalytics Project # 30264757

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BAH
LIMS Login BAH

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 0.8 °C Correction Factor: +0.0 °C Final Temp: 0.8 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: BAH 9/12/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			✓	16.
exceptions: VOA, coliform, TOC, O&G, Phenolics				Initial when completed BAH Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BAH Date: 9/12/18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 25, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW
Pace Project No.: 30264877

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW
Pace Project No.: 30264877

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW
Pace Project No.: 30264877

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30264877001	**Trip Blank**	Water	09/12/18 00:01	09/13/18 00:55
30264877002	**CO55-PZM000**	Water	09/12/18 08:20	09/13/18 00:55
30264877003	**CO57-PZM002**	Water	09/12/18 09:05	09/13/18 00:55
30264877004	**CO59-PZM002**	Water	09/12/18 10:00	09/13/18 00:55
30264877005	**CO26-PZM007**	Water	09/12/18 10:50	09/13/18 00:55
30264877006	**CO02-PZM006**	Water	09/12/18 11:55	09/13/18 00:55
30264877007	**CO36-PZM008**	Water	09/12/18 13:30	09/13/18 00:55
30264877008	**CO36-PZM043**	Water	09/12/18 14:00	09/13/18 00:55
30264877009	**CO41-PZM001**	Water	09/12/18 14:35	09/13/18 00:55
30264877010	**CO41-PZM036**	Water	09/12/18 15:10	09/13/18 00:55

Sample 003 changed to CO57-PZP002,
Sample 004 changed to CO59-PZM002

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: COA IM GW
Pace Project No.: 30264877

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30264877001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30264877002	**CO55-PZM000**	EPA 8260B	MAK	53	PASI-PA
30264877003	**CO57-PZM002**	EPA 8260B	MAK	53	PASI-PA
30264877004	**CO59-PZM002**	EPA 8260B	MAK	53	PASI-PA
30264877005	**CO26-PZM007**	EPA 8260B	MAK	53	PASI-PA
30264877006	**CO02-PZM006**	EPA 8260B	MAK	53	PASI-PA
30264877007	**CO36-PZM008**	EPA 8260B	MAK	53	PASI-PA
30264877008	**CO36-PZM043**	EPA 8260B	MAK	53	PASI-PA
30264877009	**CO41-PZM001**	EPA 8260B	MAK	53	PASI-PA
30264877010	**CO41-PZM036**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: Trip Blank **Lab ID: 30264877001** Collected: 09/12/18 00:01 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 15:35	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 15:35	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 15:35	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 15:35	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 15:35	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 15:35	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 15:35	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		09/21/18 15:35	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 15:35	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 15:35	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 15:35	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 15:35	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 15:35	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		09/21/18 15:35	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		09/21/18 15:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		09/21/18 15:35	108-10-1	
Acetone	**5.1J**	ug/L	5.0	2.8	1		09/21/18 15:35	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 15:35	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/21/18 15:35	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 15:35	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 15:35	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 15:35	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 15:35	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 15:35	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 15:35	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 15:35	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 15:35	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 15:35	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 15:35	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 15:35	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 15:35	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 15:35	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		09/21/18 15:35	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 15:35	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 15:35	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/21/18 15:35	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/21/18 15:35	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 15:35	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 15:35	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 15:35	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 15:35	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		09/21/18 15:35	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 15:35	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		09/21/18 15:35	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 15:35	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 15:35	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: Trip Blank **Lab ID: 30264877001** Collected: 09/12/18 00:01 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 15:35	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 15:35	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		09/21/18 15:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	79-129		1		09/21/18 15:35	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		09/21/18 15:35	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		09/21/18 15:35	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		09/21/18 15:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO55-PZM000 **Lab ID: 30264877002** Collected: 09/12/18 08:20 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 16:27	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 16:27	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 16:27	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 16:27	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 16:27	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 16:27	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 16:27	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 16:27	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 16:27	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 16:27	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 16:27	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 16:27	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 16:27	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 16:27	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 16:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 16:27	108-10-1	
Acetone	**6.9J**	ug/L	10.0	2.8	1		09/21/18 16:27	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 16:27	107-13-1	
Benzene	**38.0**	ug/L	1.0	0.24	1		09/21/18 16:27	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 16:27	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 16:27	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 16:27	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 16:27	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 16:27	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 16:27	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 16:27	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 16:27	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 16:27	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 16:27	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 16:27	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 16:27	74-95-3	
Ethylbenzene	**1.7**	ug/L	1.0	0.31	1		09/21/18 16:27	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 16:27	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 16:27	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 16:27	75-09-2	
Naphthalene	**141**	ug/L	2.0	0.82	1		09/21/18 16:27	91-20-3	
Styrene	**0.88J**	ug/L	1.0	0.17	1		09/21/18 16:27	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 16:27	127-18-4	
Toluene	**8.6**	ug/L	1.0	0.30	1		09/21/18 16:27	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 16:27	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 16:27	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 16:27	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 16:27	75-01-4	
Xylene (Total)	**23.7**	ug/L	3.0	0.78	1		09/21/18 16:27	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 16:27	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 16:27	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO55-PZM000 **Lab ID: 30264877002** Collected: 09/12/18 08:20 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 16:27	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 16:27	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 16:27	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		1		09/21/18 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		09/21/18 16:27	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		09/21/18 16:27	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		09/21/18 16:27	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO57-PZM002 **Lab ID: 30264877003** Collected: 09/12/18 09:05 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 17:19	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 17:19	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:19	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:19	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 17:19	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:19	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 17:19	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 17:19	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:19	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 17:19	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 17:19	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 17:19	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:19	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 17:19	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 17:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 17:19	108-10-1	
Acetone	**4.1J**	ug/L	10.0	2.8	1		09/21/18 17:19	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 17:19	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/21/18 17:19	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:19	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 17:19	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:19	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 17:19	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:19	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:19	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 17:19	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 17:19	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 17:19	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 17:19	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 17:19	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 17:19	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:19	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 17:19	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 17:19	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 17:19	75-09-2	
Naphthalene	**0.93J**	ug/L	2.0	0.82	1		09/21/18 17:19	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/21/18 17:19	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:19	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 17:19	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 17:19	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 17:19	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 17:19	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:19	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		09/21/18 17:19	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 17:19	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 17:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO57-PZM002 **Lab ID: 30264877003** Collected: 09/12/18 09:05 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 17:19	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 17:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 17:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		1		09/21/18 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		09/21/18 17:19	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		09/21/18 17:19	2037-26-5	
Dibromofluoromethane (S)	108	%.	80-120		1		09/21/18 17:19	1868-53-7	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO59-PZM002 **Lab ID: 30264877004** Collected: 09/12/18 10:00 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 17:32	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 17:32	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:32	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:32	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 17:32	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:32	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 17:32	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 17:32	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:32	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 17:32	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 17:32	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 17:32	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:32	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 17:32	78-93-3	ML
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 17:32	591-78-6	ML
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 17:32	108-10-1	ML
Acetone	**4.0J**	ug/L	10.0	2.8	1		09/21/18 17:32	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 17:32	107-13-1	
Benzene	**0.61J**	ug/L	1.0	0.24	1		09/21/18 17:32	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:32	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 17:32	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:32	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 17:32	74-83-9	R1
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:32	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:32	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 17:32	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 17:32	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 17:32	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 17:32	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 17:32	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 17:32	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:32	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 17:32	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 17:32	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 17:32	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/21/18 17:32	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/21/18 17:32	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:32	127-18-4	
Toluene	**0.88J**	ug/L	1.0	0.30	1		09/21/18 17:32	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 17:32	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 17:32	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 17:32	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:32	75-01-4	
Xylene (Total)	**3.4**	ug/L	3.0	0.78	1		09/21/18 17:32	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 17:32	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 17:32	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO59-PZM002 **Lab ID: 30264877004** Collected: 09/12/18 10:00 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 17:32	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 17:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 17:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%.	79-129		1		09/21/18 17:32	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		09/21/18 17:32	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		09/21/18 17:32	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		09/21/18 17:32	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO26-PZM007 **Lab ID: 30264877005** Collected: 09/12/18 10:50 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 23:18	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 23:18	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 23:18	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 23:18	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 23:18	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 23:18	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 23:18	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 23:18	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 23:18	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 23:18	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 23:18	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 23:18	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 23:18	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 23:18	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 23:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 23:18	108-10-1	
Acetone	**2.9J**	ug/L	10.0	2.8	1		09/21/18 23:18	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 23:18	107-13-1	
Benzene	**205**	ug/L	1.0	0.24	1		09/21/18 23:18	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 23:18	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 23:18	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 23:18	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 23:18	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 23:18	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 23:18	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 23:18	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 23:18	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 23:18	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 23:18	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 23:18	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 23:18	74-95-3	
Ethylbenzene	**10.9**	ug/L	1.0	0.31	1		09/21/18 23:18	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 23:18	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 23:18	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 23:18	75-09-2	
Naphthalene	**3580**	ug/L	40.0	16.4	20		09/21/18 23:43	91-20-3	
Styrene	**57.5**	ug/L	1.0	0.17	1		09/21/18 23:18	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 23:18	127-18-4	
Toluene	**130**	ug/L	1.0	0.30	1		09/21/18 23:18	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 23:18	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 23:18	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 23:18	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 23:18	75-01-4	
Xylene (Total)	**236**	ug/L	3.0	0.78	1		09/21/18 23:18	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 23:18	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 23:18	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO26-PZM007 **Lab ID: 30264877005** Collected: 09/12/18 10:50 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 23:18	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 23:18	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 23:18	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		09/21/18 23:18	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%.	80-120		1		09/21/18 23:18	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		09/21/18 23:18	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		09/21/18 23:18	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO02-PZM006 **Lab ID: 30264877006** Collected: 09/12/18 11:55 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 19:02	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:02	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 19:02	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:02	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 19:02	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:02	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 19:02	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 19:02	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:02	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 19:02	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 19:02	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:02	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:02	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 19:02	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 19:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 19:02	108-10-1	
Acetone	**37.3J**	ug/L	50.0	14.2	5		09/21/18 19:02	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 19:02	107-13-1	
Benzene	**46800**	ug/L	1000	240	1000		09/21/18 19:28	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 19:02	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:02	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:02	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 19:02	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:02	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 19:02	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/21/18 19:02	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 19:02	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 19:02	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 19:02	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:02	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 19:02	74-95-3	
Ethylbenzene	**134**	ug/L	5.0	1.6	5		09/21/18 19:02	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 19:02	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 19:02	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 19:02	75-09-2	
Naphthalene	**119**	ug/L	10.0	4.1	5		09/21/18 19:02	91-20-3	
Styrene	**1.8J**	ug/L	5.0	0.85	5		09/21/18 19:02	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:02	127-18-4	
Toluene	**13.7**	ug/L	5.0	1.5	5		09/21/18 19:02	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 19:02	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:02	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 19:02	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:02	75-01-4	
Xylene (Total)	**60.2**	ug/L	15.0	3.9	5		09/21/18 19:02	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 19:02	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 19:02	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO02-PZM006 **Lab ID: 30264877006** Collected: 09/12/18 11:55 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 19:02	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 19:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 19:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		5		09/21/18 19:02	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		09/21/18 19:02	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		09/21/18 19:02	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		09/21/18 19:02	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO36-PZM008 **Lab ID: 30264877007** Collected: 09/12/18 13:30 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 19:54	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:54	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 19:54	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:54	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 19:54	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:54	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 19:54	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 19:54	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:54	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 19:54	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 19:54	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:54	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 19:54	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 19:54	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 19:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 19:54	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/21/18 19:54	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 19:54	107-13-1	
Benzene	**6550**	ug/L	200	48.0	200		09/21/18 20:20	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 19:54	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:54	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:54	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 19:54	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:54	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 19:54	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/21/18 19:54	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 19:54	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 19:54	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 19:54	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:54	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 19:54	74-95-3	
Ethylbenzene	**31.0**	ug/L	5.0	1.6	5		09/21/18 19:54	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 19:54	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 19:54	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 19:54	75-09-2	
Naphthalene	**239**	ug/L	10.0	4.1	5		09/21/18 19:54	91-20-3	
Styrene	**7.2**	ug/L	5.0	0.85	5		09/21/18 19:54	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:54	127-18-4	
Toluene	**1360**	ug/L	5.0	1.5	5		09/21/18 19:54	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 19:54	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 19:54	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 19:54	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 19:54	75-01-4	
Xylene (Total)	**520**	ug/L	15.0	3.9	5		09/21/18 19:54	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 19:54	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 19:54	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO36-PZM008 **Lab ID: 30264877007** Collected: 09/12/18 13:30 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 19:54	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 19:54	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 19:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	79-129		5		09/21/18 19:54	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	80-120		5		09/21/18 19:54	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		09/21/18 19:54	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		09/21/18 19:54	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO36-PZM043 **Lab ID: 30264877008** Collected: 09/12/18 14:00 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 20:45	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:45	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 20:45	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:45	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 20:45	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:45	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 20:45	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 20:45	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:45	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 20:45	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 20:45	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:45	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:45	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 20:45	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 20:45	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 20:45	108-10-1	
Acetone	**22.7J**	ug/L	50.0	14.2	5		09/21/18 20:45	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 20:45	107-13-1	
Benzene	**29800**	ug/L	200	48.0	200		09/21/18 21:11	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 20:45	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:45	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:45	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 20:45	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:45	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 20:45	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/21/18 20:45	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 20:45	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 20:45	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 20:45	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:45	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 20:45	74-95-3	
Ethylbenzene	**45.6**	ug/L	5.0	1.6	5		09/21/18 20:45	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 20:45	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 20:45	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 20:45	75-09-2	
Naphthalene	**836**	ug/L	10.0	4.1	5		09/21/18 20:45	91-20-3	
Styrene	**10.6**	ug/L	5.0	0.85	5		09/21/18 20:45	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:45	127-18-4	
Toluene	**3490**	ug/L	200	60.0	200		09/21/18 21:11	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 20:45	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:45	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 20:45	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:45	75-01-4	
Xylene (Total)	**739**	ug/L	15.0	3.9	5		09/21/18 20:45	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 20:45	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 20:45	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO36-PZM043 **Lab ID: 30264877008** Collected: 09/12/18 14:00 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 20:45	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 20:45	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 20:45	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		5		09/21/18 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		09/21/18 20:45	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		09/21/18 20:45	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		09/21/18 20:45	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO41-PZM001 **Lab ID: 30264877009** Collected: 09/12/18 14:35 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 17:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 17:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 17:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 17:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 17:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 17:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 17:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 17:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 17:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 17:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 17:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 17:06	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		09/21/18 17:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 17:06	107-13-1	
Benzene	**338**	ug/L	1.0	0.24	1		09/21/18 17:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 17:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 17:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 17:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 17:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 17:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 17:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 17:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 17:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 17:06	74-95-3	
Ethylbenzene	**20.5**	ug/L	1.0	0.31	1		09/21/18 17:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 17:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 17:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 17:06	75-09-2	
Naphthalene	**12.0**	ug/L	2.0	0.82	1		09/21/18 17:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/21/18 17:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 17:06	127-18-4	
Toluene	**327**	ug/L	1.0	0.30	1		09/21/18 17:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 17:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 17:06	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 17:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 17:06	75-01-4	
Xylene (Total)	**203**	ug/L	3.0	0.78	1		09/21/18 17:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 17:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 17:06	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO41-PZM001 **Lab ID: 30264877009** Collected: 09/12/18 14:35 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 17:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 17:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 17:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	79-129		1		09/21/18 17:06	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		09/21/18 17:06	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		09/21/18 17:06	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		09/21/18 17:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO41-PZM036 **Lab ID: 30264877010** Collected: 09/12/18 15:10 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 21:37	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:37	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 21:37	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:37	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 21:37	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:37	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 21:37	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 21:37	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:37	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 21:37	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 21:37	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:37	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:37	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 21:37	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 21:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 21:37	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/21/18 21:37	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 21:37	107-13-1	
Benzene	**189000**	ug/L	500	120	500		09/21/18 22:02	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 21:37	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:37	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:37	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 21:37	74-83-9	
Carbon disulfide	**2.8J**	ug/L	5.0	1.6	5		09/21/18 21:37	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 21:37	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/21/18 21:37	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 21:37	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 21:37	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 21:37	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:37	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 21:37	74-95-3	
Ethylbenzene	**658**	ug/L	5.0	1.6	5		09/21/18 21:37	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 21:37	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 21:37	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 21:37	75-09-2	
Naphthalene	**385**	ug/L	10.0	4.1	5		09/21/18 21:37	91-20-3	
Styrene	**362**	ug/L	5.0	0.85	5		09/21/18 21:37	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:37	127-18-4	
Toluene	**55700**	ug/L	500	150	500		09/21/18 22:02	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 21:37	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:37	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 21:37	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:37	75-01-4	
Xylene (Total)	**16900**	ug/L	1500	390	500		09/21/18 22:02	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 21:37	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 21:37	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30264877

Sample: CO41-PZM036 **Lab ID: 30264877010** Collected: 09/12/18 15:10 Received: 09/13/18 00:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 21:37	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 21:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 21:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		5		09/21/18 21:37	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		5		09/21/18 21:37	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		09/21/18 21:37	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		09/21/18 21:37	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

QC Batch: 313878 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30264877001, 30264877002, 30264877003, 30264877005, 30264877006, 30264877007, 30264877008, 30264877010

METHOD BLANK: 1532486 Matrix: Water
Associated Lab Samples: 30264877001, 30264877002, 30264877003, 30264877005, 30264877006, 30264877007, 30264877008, 30264877010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/21/18 14:43	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:43	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/21/18 14:43	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/21/18 14:43	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/21/18 14:43	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/21/18 14:43	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/21/18 14:43	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/21/18 14:43	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/21/18 14:43	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/21/18 14:43	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/21/18 14:43	
Acetone	ug/L	10.0 U	10.0	2.8	09/21/18 14:43	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/21/18 14:43	
Benzene	ug/L	1.0 U	1.0	0.24	09/21/18 14:43	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/21/18 14:43	
Bromoform	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/21/18 14:43	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/21/18 14:43	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/21/18 14:43	
Chloroform	ug/L	1.0 U	1.0	0.30	09/21/18 14:43	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/21/18 14:43	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/21/18 14:43	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/21/18 14:43	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/21/18 14:43	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/21/18 14:43	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/21/18 14:43	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/21/18 14:43	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/21/18 14:43	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/21/18 14:43	
Styrene	ug/L	1.0 U	1.0	0.17	09/21/18 14:43	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

METHOD BLANK: 1532486 Matrix: Water
Associated Lab Samples: 30264877001, 30264877002, 30264877003, 30264877005, 30264877006, 30264877007, 30264877008, 30264877010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	09/21/18 14:43	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/21/18 14:43	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/21/18 14:43	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/21/18 14:43	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/21/18 14:43	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:43	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/21/18 14:43	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/21/18 14:43	
1,2-Dichloroethane-d4 (S)	%.	96	80-120		09/21/18 14:43	
4-Bromofluorobenzene (S)	%.	100	79-129		09/21/18 14:43	
Dibromofluoromethane (S)	%.	106	80-120		09/21/18 14:43	
Toluene-d8 (S)	%.	99	80-120		09/21/18 14:43	

LABORATORY CONTROL SAMPLE: 1532487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	99	70-130	
1,1,1-Trichloroethane	ug/L	20	18.5	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	65-127	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	19.7	98	70-130	
1,1-Dichloroethene	ug/L	20	19.3	97	70-130	
1,2,3-Trichloropropane	ug/L	20	18.7	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.2	96	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	17.7	89	70-130	
1,2-Dichloroethane	ug/L	20	17.8	89	70-130	
1,2-Dichloropropane	ug/L	20	20.9	105	70-130	
1,4-Dichlorobenzene	ug/L	20	17.7	89	70-130	
2-Butanone (MEK)	ug/L	20	17.9	89	72-170	
2-Hexanone	ug/L	20	18.0	90	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.0	90	66-150	
Acetone	ug/L	20	23.0	115	30-179	
Acrylonitrile	ug/L	20	21.8	109	48-172	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	24.2	121	70-130	
Bromodichloromethane	ug/L	20	19.9	99	70-130	
Bromoform	ug/L	20	21.2	106	70-130	
Bromomethane	ug/L	20	23.0	115	47-174	
Carbon disulfide	ug/L	20	22.9	115	43-133	
Carbon tetrachloride	ug/L	20	21.5	108	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

LABORATORY CONTROL SAMPLE: 1532487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	20.2	101	67-139	
Chloroform	ug/L	20	18.7	93	70-130	
Chloromethane	ug/L	20	17.8	89	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	21.7	109	70-130	
Dibromomethane	ug/L	20	21.6	108	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
Iodomethane	ug/L	20	16.3J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	21.4	107	70-130	
Methylene Chloride	ug/L	20	18.1	91	55-144	
Naphthalene	ug/L	20	19.2	96	70-130	
Styrene	ug/L	20	19.6	98	70-130	
Tetrachloroethene	ug/L	20	20.7	103	70-130	
Toluene	ug/L	20	17.8	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.3	86	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.0	80	27-116	
Trichloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	23.6	118	60-148	
Vinyl acetate	ug/L	20	15.0	75	30-181	
Vinyl chloride	ug/L	20	21.7	108	70-130	
Xylene (Total)	ug/L	60	56.2	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			94	80-120	
4-Bromofluorobenzene (S)	%.			96	79-129	
Dibromofluoromethane (S)	%.			106	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533355 1533356

Parameter	Units	30264613002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.5	19.7	83	98	51-124	17	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	15.3	17.4	76	87	79-129	13	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.0	20.7	80	104	57-118	26	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.4	20.0	87	100	68-117	14	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.7	18.6	79	93	74-119	17	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	15.1	18.0	76	90	63-126	17	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.3	19.2	77	96	56-129	22	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.0	18.0	75	90	53-120	18	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.2	20.9	86	104	69-124	19	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	15.3	19.0	77	95	72-119	21	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	12.6	15.6	63	78	69-116	22	30	ML
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.2	20.4	86	102	63-118	17	30	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1533355			1533356							
Parameter	Units	30264613002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.6	18.7	78	94	72-118	18	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	11.3	12.9	48	56	72-168	13	30	ML
2-Hexanone	ug/L	10.0 U	20	20	10.2	12.3	51	62	66-143	19	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	10.8	13.0	54	65	67-145	19	30	ML
Acetone	ug/L	10.3	20	20	21.7	22.9	57	63	15-175	5	30	
Acrylonitrile	ug/L	4.0 U	20	20	13.0	15.5	65	77	36-165	17	30	
Benzene	ug/L	19.7	20	20	34.5	39.1	74	97	67-121	12	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.1	23.3	101	117	62-128	15	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.8	20.1	84	100	66-127	18	30	
Bromoform	ug/L	1.0 U	20	20	16.5	20.9	83	105	71-127	23	30	
Bromomethane	ug/L	1.0 U	20	20	15.2	19.7	76	98	10-156	26	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.2	18.4	81	92	45-131	13	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.2	19.9	86	100	69-134	15	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.0	19.6	85	98	69-119	14	30	
Chloroethane	ug/L	1.0 U	20	20	21.8	25.3	109	126	60-156	15	30	
Chloroform	ug/L	1.0 U	20	20	14.8	18.1	74	90	69-115	20	30	
Chloromethane	ug/L	1.0 U	20	20	12.1	14.7	61	73	52-145	19	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.0	16.4	70	82	65-120	15	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.4	17.6	77	88	57-125	13	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.8	21.2	89	106	64-131	17	30	
Dibromomethane	ug/L	1.0 U	20	20	18.4	21.2	92	106	56-133	14	30	
Ethylbenzene	ug/L	1.9	20	20	18.1	21.0	81	95	70-127	15	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	11.7J	38	59	10-152		30	
Methyl-tert-butyl ether	ug/L	4.1	20	20	17.5	20.5	67	82	79-135	16	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	13.2	15.3	63	74	54-133	15	30	
Naphthalene	ug/L	37.5	20	20	47.7	58.5	51	105	62-131	20	30	ML
Styrene	ug/L	1.0 U	20	20	16.7	20.1	84	100	65-121	18	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.5	21.7	92	108	77-125	16	30	
Toluene	ug/L	0.49J	20	20	16.8	19.5	82	95	77-125	15	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.7	18.2	78	91	70-119	15	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.0	16.7	70	83	52-125	18	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.5	11.7	38	59	13-100	43	30	R1
Trichloroethene	ug/L	1.0 U	20	20	17.3	20.8	87	104	74-128	18	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	25.3	29.5	127	148	54-164	15	30	
Vinyl acetate	ug/L	10.0 U	20	20	10.3	12.3	52	62	15-173	18	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.2	23.4	96	117	60-131	20	30	
Xylene (Total)	ug/L	1.3J	60	60	49.9	60.1	81	98	69-128	19	30	
1,2-Dichloroethane-d4 (S)	%.						80	82	80-120			
4-Bromofluorobenzene (S)	%.						98	105	79-129			
Dibromofluoromethane (S)	%.						98	100	80-120			
Toluene-d8 (S)	%.						97	98	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

QC Batch: 313879 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30264877004, 30264877009

METHOD BLANK: 1532489 Matrix: Water
Associated Lab Samples: 30264877004, 30264877009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/21/18 14:56	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:56	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/21/18 14:56	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/21/18 14:56	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/21/18 14:56	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/21/18 14:56	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/21/18 14:56	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/21/18 14:56	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/21/18 14:56	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/21/18 14:56	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/21/18 14:56	
Acetone	ug/L	10.0 U	10.0	2.8	09/21/18 14:56	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/21/18 14:56	
Benzene	ug/L	1.0 U	1.0	0.24	09/21/18 14:56	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/21/18 14:56	
Bromoform	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/21/18 14:56	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/21/18 14:56	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/21/18 14:56	
Chloroform	ug/L	1.0 U	1.0	0.30	09/21/18 14:56	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/21/18 14:56	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/21/18 14:56	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/21/18 14:56	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/21/18 14:56	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/21/18 14:56	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/21/18 14:56	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/21/18 14:56	
Methylene Chloride	ug/L	0.85J	1.0	0.77	09/21/18 14:56	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/21/18 14:56	
Styrene	ug/L	1.0 U	1.0	0.17	09/21/18 14:56	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Toluene	ug/L	1.0 U	1.0	0.30	09/21/18 14:56	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

METHOD BLANK: 1532489 Matrix: Water
Associated Lab Samples: 30264877004, 30264877009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/21/18 14:56	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/21/18 14:56	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/21/18 14:56	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/21/18 14:56	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:56	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/21/18 14:56	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/21/18 14:56	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		09/21/18 14:56	
4-Bromofluorobenzene (S)	%.	106	79-129		09/21/18 14:56	
Dibromofluoromethane (S)	%.	104	80-120		09/21/18 14:56	
Toluene-d8 (S)	%.	95	80-120		09/21/18 14:56	

LABORATORY CONTROL SAMPLE: 1532490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	94	65-127	
1,1,2-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	19.7	99	70-130	
1,2,3-Trichloropropane	ug/L	20	17.5	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.6	93	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	20	17.9	89	70-130	
1,2-Dichloroethane	ug/L	20	17.7	88	70-130	
1,2-Dichloropropane	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	17.2	86	70-130	
2-Butanone (MEK)	ug/L	20	18.7	94	72-170	
2-Hexanone	ug/L	20	17.6	88	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	66-150	
Acetone	ug/L	20	25.3	126	30-179	
Acrylonitrile	ug/L	20	21.4	107	48-172	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	21.4	107	70-130	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	21.2	106	70-130	
Bromomethane	ug/L	20	20.7	103	47-174	
Carbon disulfide	ug/L	20	21.7	109	43-133	
Carbon tetrachloride	ug/L	20	20.5	103	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	17.0	85	67-139	
Chloroform	ug/L	20	18.2	91	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

LABORATORY CONTROL SAMPLE: 1532490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.9	84	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.3	91	70-130	
Dibromochloromethane	ug/L	20	21.2	106	70-130	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	20	16.2J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	20.3	102	70-130	
Methylene Chloride	ug/L	20	19.2	96	55-144	
Naphthalene	ug/L	20	18.6	93	70-130	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.5	87	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.6	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.9	75	27-116	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	24.6	123	60-148	
Vinyl acetate	ug/L	20	15.6	78	30-181	
Vinyl chloride	ug/L	20	20.0	100	70-130	
Xylene (Total)	ug/L	60	57.9	96	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			106	79-129	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533357 1533358

Parameter	Units	30264877004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.4	19.5	97	97	51-124	0	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.1	17.7	86	88	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.5	19.1	93	95	57-118	3	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.8	20.6	99	103	68-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.7	18.7	93	94	74-119	0	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.1	18.0	91	90	63-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.7	17.8	89	89	56-129	0	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	18.0	17.6	90	88	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.5	19.7	98	99	69-124	1	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.2	18.4	91	92	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	15.2	74	76	69-116	2	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	19.6	19.8	98	99	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.5	18.0	87	90	72-118	3	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.0	12.1	65	60	72-168	7	30	ML

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30264877

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533357 1533358

Parameter	Units	30264877004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	12.5	12.0	63	60	66-143	5	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	13.4	12.8	67	64	67-145	4	30	ML
Acetone	ug/L	4.0J	20	20	20.5	19.2	83	76	15-175	7	30	
Acrylonitrile	ug/L	4.0 U	20	20	15.0	14.7	75	73	36-165	2	30	
Benzene	ug/L	0.61J	20	20	20.4	20.6	99	100	67-121	1	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.2	21.4	101	107	62-128	6	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.5	20.1	98	101	66-127	3	30	
Bromoform	ug/L	1.0 U	20	20	20.0	20.0	100	100	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	8.0	12.6	38	61	10-156	44	30	R1
Carbon disulfide	ug/L	1.0 U	20	20	17.6	18.5	88	92	45-131	5	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.4	19.5	97	97	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.7	20.0	98	100	69-119	2	30	
Chloroethane	ug/L	1.0 U	20	20	17.1	21.3	86	107	60-156	22	30	
Chloroform	ug/L	1.0 U	20	20	17.9	18.2	90	91	69-115	1	30	
Chloromethane	ug/L	1.0 U	20	20	12.0	13.4	60	67	52-145	11	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.2	16.9	86	84	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.8	18.3	89	92	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	21.0	21.1	105	105	64-131	0	30	
Dibromomethane	ug/L	1.0 U	20	20	21.0	21.0	105	105	56-133	0	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.9	20.4	105	102	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.9J	5.8J	15	29	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.2	16.2	81	81	79-135	0	30	
Methylene Chloride	ug/L	1.0 U	20	20	14.5	13.7	73	68	54-133	6	30	
Naphthalene	ug/L	2.0 U	20	20	22.2	18.8	111	94	62-131	17	30	
Styrene	ug/L	1.0 U	20	20	19.1	19.2	96	96	65-121	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	21.9	21.5	110	108	77-125	2	30	
Toluene	ug/L	0.88J	20	20	20.3	20.0	97	96	77-125	2	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.9	17.2	85	86	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.9	16.9	84	85	52-125	0	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	9.2	8.0	46	40	13-100	14	30	
Trichloroethene	ug/L	1.0 U	20	20	20.2	20.4	101	102	74-128	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	31.2	30.8	156	154	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	12.8	12.3	64	61	15-173	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	20.5	21.4	103	107	60-131	4	30	
Xylene (Total)	ug/L	3.4	60	60	63.1	63.2	99	100	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						83	81	80-120			
4-Bromofluorobenzene (S)	%.						106	106	79-129			
Dibromofluoromethane (S)	%.						98	98	80-120			
Toluene-d8 (S)	%.						100	98	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW
Pace Project No.: 30264877

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW
Pace Project No.: 30264877

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30264877001	**Trip Blank**	EPA 8260B	313878		
30264877002	**CO55-PZM000**	EPA 8260B	313878		
30264877003	**CO57-PZM002**	EPA 8260B	313878		
30264877004	**CO59-PZM002**	EPA 8260B	313879		
30264877005	**CO26-PZM007**	EPA 8260B	313878		
30264877006	**CO02-PZM006**	EPA 8260B	313878		
30264877007	**CO36-PZM008**	EPA 8260B	313878		
30264877008	**CO36-PZM043**	EPA 8260B	313878		
30264877009	**CO41-PZM001**	EPA 8260B	313879		
30264877010	**CO41-PZM036**	EPA 8260B	313878		

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Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Docume

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed ac

WO# : 30264877

30264877

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	EnviroAnalytics Group	Report To:	James Calenda	Attention:	Laura Sargent
Address:	1430 Sparrows Point Blvd	Copy To:		Company Name:	EnviroAnalytics Group
	Sparrows Point, MD 21219			Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Email To:	jcalenda@enviroanalyticsgroup.com	PO Number:		Pace Quote Reference:	
Phone:	314-620-3056 Fax:	Project Name:	COA Im GW	Pace Project Manager:	
Requested Due Date/TAT:	5 day	Project Number:	180227m-1-2	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: VOCs	Naphthalene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank 1	DRINKING WATER DW WT; WATER WW; WASTE WATER P; PRODUCT SL; SOIL/SOLID OL; OIL WP; WIPE AR; AIR OT; OTHER TS; TISSUE	WT	G			9-12-18	—			2			2						X			001
2	C055-PZM000		WT	G				820			3			3						X	X		002
3	C057-PZP002		WT	G				905			3			3						X	X		003
4	C059-PZP002		WT	G				1000			3			3						X	X		004
5	C026-PZM007		WT	G				1050			3			3						X	X		005
6	C002-PZM006		WT	G				1155			3			3						X	X		006
7	C036-PZM008		WT	G				1330			3			3						X	X		007
8	C036-PZM043		WT	G				1400			3			3						X	X		008
9	C041-PZM001		WT	G				1435			3			3						X	X		009
10	C041-PZM036		WT	G				1510			3			3						X	X		010
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Data Package Required? (Y/N):		9-12-18	1550		9/12/18	1612				
Data Validation Required? (Y/N):		9/12/18	1600		9-12-18	2010		✓		
If data package is required, attach data package checklist.		9-12-18	055		9/13/18	0055	1.9	Y	N	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Lisa Perry					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 9-12-18				

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: EnviroAnalytics Project # 30264877

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label ET
LIMS Login BWM

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 10 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.8 °C Correction Factor: +0.1 °C Final Temp: 1.9 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: BJH 9/13/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA) coliform, TOC, O&G, Phenolics			✓	16. Initial when completed BJH Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BJH Date: 9/13/18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 25, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW
Pace Project No.: 30265025

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Sample CO38-PZM006 was not received. Sample CO38-PZM043 we received 6 vials. Since it was unknown which actually were this sample and whcih may have been ths missing sample, both samples were canceled and the client will recollect.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW
Pace Project No.: 30265025

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW
Pace Project No.: 30265025

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30265025001	**Trip Blank**	Water	09/13/18 00:01	09/14/18 00:25
30265025002	**CO60-PZP001**	Water	09/13/18 08:55	09/14/18 00:25
30265025003	**CO93-PZMXXX**	Water	09/13/18 09:50	09/14/18 00:25
30265025004	**CO18-PZM006**	Water	09/13/18 10:30	09/14/18 00:25
30265025005	**CO37-PZM038**	Water	09/13/18 11:10	09/14/18 00:25
30265025006	**CO40-PZM008**	Water	09/13/18 11:50	09/14/18 00:25
30265025007	**CO39-PZM042**	Water	09/13/18 13:40	09/14/18 00:25
30265025008	**CO39-PZM007**	Water	09/13/18 14:00	09/14/18 00:25
30265025009	**CO38-PZM043**	Water	09/13/18 00:01	09/14/18 00:25
30265025010	**CO38-PZM006**	Water	09/13/18 00:01	09/14/18 00:25

"XXX" removed from sample 003

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: COA IM GW
Pace Project No.: 30265025

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30265025001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30265025002	**CO60-PZP001**	EPA 8260B	MAK	53	PASI-PA
30265025003	**CO93-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30265025004	**CO18-PZM006**	EPA 8260B	MAK	53	PASI-PA
30265025005	**CO37-PZM038**	EPA 8260B	MAK	53	PASI-PA
30265025006	**CO40-PZM008**	EPA 8260B	MAK	53	PASI-PA
30265025007	**CO39-PZM042**	EPA 8260B	MAK	53	PASI-PA
30265025008	**CO39-PZM007**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: Trip Blank **Lab ID: 30265025001** Collected: 09/13/18 00:01 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 16:40	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 16:40	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 16:40	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 16:40	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 16:40	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 16:40	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 16:40	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		09/21/18 16:40	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 16:40	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 16:40	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 16:40	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 16:40	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 16:40	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		09/21/18 16:40	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		09/21/18 16:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		09/21/18 16:40	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		09/21/18 16:40	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 16:40	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/21/18 16:40	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 16:40	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 16:40	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 16:40	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 16:40	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 16:40	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 16:40	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 16:40	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 16:40	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 16:40	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 16:40	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 16:40	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 16:40	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 16:40	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		09/21/18 16:40	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 16:40	1634-04-4	
Methylene Chloride	**0.98J**	ug/L	1.0	0.77	1		09/21/18 16:40	75-09-2	B
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/21/18 16:40	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/21/18 16:40	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 16:40	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 16:40	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 16:40	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 16:40	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		09/21/18 16:40	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 16:40	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		09/21/18 16:40	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 16:40	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 16:40	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: Trip Blank **Lab ID: 30265025001** Collected: 09/13/18 00:01 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 16:40	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 16:40	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		09/21/18 16:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		1		09/21/18 16:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		09/21/18 16:40	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		09/21/18 16:40	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		1		09/21/18 16:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO60-PZP001 **Lab ID: 30265025002** Collected: 09/13/18 08:55 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 22:27	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 22:27	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 22:27	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 22:27	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 22:27	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 22:27	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 22:27	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 22:27	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 22:27	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 22:27	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 22:27	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 22:27	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 22:27	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 22:27	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 22:27	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 22:27	108-10-1	
Acetone	**8.9J**	ug/L	10.0	2.8	1		09/21/18 22:27	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 22:27	107-13-1	
Benzene	**172**	ug/L	1.0	0.24	1		09/21/18 22:27	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 22:27	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 22:27	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 22:27	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 22:27	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 22:27	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 22:27	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 22:27	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 22:27	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 22:27	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 22:27	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 22:27	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 22:27	74-95-3	
Ethylbenzene	**7.2**	ug/L	1.0	0.31	1		09/21/18 22:27	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 22:27	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 22:27	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 22:27	75-09-2	
Naphthalene	**1700**	ug/L	40.0	16.4	20		09/21/18 22:53	91-20-3	
Styrene	**14.3**	ug/L	1.0	0.17	1		09/21/18 22:27	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 22:27	127-18-4	
Toluene	**14.1**	ug/L	1.0	0.30	1		09/21/18 22:27	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 22:27	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 22:27	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 22:27	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 22:27	75-01-4	
Xylene (Total)	**148**	ug/L	3.0	0.78	1		09/21/18 22:27	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 22:27	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 22:27	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO60-PZP001 **Lab ID: 30265025002** Collected: 09/13/18 08:55 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 22:27	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 22:27	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 22:27	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		1		09/21/18 22:27	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		1		09/21/18 22:27	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		09/21/18 22:27	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		09/21/18 22:27	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO93-PZMXXX **Lab ID: 30265025003** Collected: 09/13/18 09:50 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 22:40	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 22:40	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 22:40	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 22:40	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 22:40	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 22:40	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 22:40	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 22:40	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 22:40	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 22:40	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 22:40	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 22:40	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 22:40	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 22:40	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 22:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 22:40	108-10-1	
Acetone	**21.8J**	ug/L	50.0	14.2	5		09/21/18 22:40	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 22:40	107-13-1	
Benzene	**201000**	ug/L	1000	240	1000		09/21/18 23:05	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 22:40	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 22:40	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 22:40	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 22:40	74-83-9	
Carbon disulfide	**17.4**	ug/L	5.0	1.6	5		09/21/18 22:40	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 22:40	56-23-5	
Chlorobenzene	**12.2**	ug/L	5.0	0.75	5		09/21/18 22:40	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 22:40	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 22:40	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 22:40	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 22:40	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 22:40	74-95-3	
Ethylbenzene	**1120**	ug/L	5.0	1.6	5		09/21/18 22:40	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 22:40	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 22:40	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 22:40	75-09-2	
Naphthalene	**1930**	ug/L	10.0	4.1	5		09/21/18 22:40	91-20-3	
Styrene	**1180**	ug/L	5.0	0.85	5		09/21/18 22:40	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 22:40	127-18-4	
Toluene	**63900**	ug/L	1000	300	1000		09/21/18 23:05	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 22:40	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 22:40	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 22:40	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 22:40	75-01-4	
Xylene (Total)	**17100**	ug/L	3000	780	1000		09/21/18 23:05	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 22:40	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 22:40	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO93-PZMXXX **Lab ID: 30265025003** Collected: 09/13/18 09:50 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 22:40	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 22:40	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 22:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	79-129		5		09/21/18 22:40	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		5		09/21/18 22:40	17060-07-0	
Toluene-d8 (S)	104	%.	80-120		5		09/21/18 22:40	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		09/21/18 22:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO18-PZM006 **Lab ID: 30265025004** Collected: 09/13/18 10:30 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 20:58	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:58	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 20:58	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:58	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 20:58	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:58	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 20:58	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 20:58	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:58	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 20:58	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 20:58	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:58	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 20:58	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 20:58	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 20:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 20:58	108-10-1	
Acetone	**74.5**	ug/L	50.0	14.2	5		09/21/18 20:58	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 20:58	107-13-1	
Benzene	**281000**	ug/L	2000	480	2000		09/21/18 21:24	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 20:58	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:58	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:58	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 20:58	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:58	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 20:58	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/21/18 20:58	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 20:58	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 20:58	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 20:58	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:58	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 20:58	74-95-3	
Ethylbenzene	**43.1**	ug/L	5.0	1.6	5		09/21/18 20:58	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 20:58	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 20:58	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 20:58	75-09-2	
Naphthalene	**121**	ug/L	10.0	4.1	5		09/21/18 20:58	91-20-3	
Styrene	**2.5J**	ug/L	5.0	0.85	5		09/21/18 20:58	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:58	127-18-4	
Toluene	**1430**	ug/L	5.0	1.5	5		09/21/18 20:58	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 20:58	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 20:58	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 20:58	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 20:58	75-01-4	
Xylene (Total)	**903**	ug/L	15.0	3.9	5		09/21/18 20:58	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 20:58	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 20:58	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO18-PZM006 **Lab ID: 30265025004** Collected: 09/13/18 10:30 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 20:58	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 20:58	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 20:58	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		5		09/21/18 20:58	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		09/21/18 20:58	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		09/21/18 20:58	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		09/21/18 20:58	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO37-PZM038 **Lab ID: 30265025005** Collected: 09/13/18 11:10 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 21:49	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:49	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 21:49	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:49	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 21:49	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:49	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 21:49	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 21:49	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:49	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 21:49	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 21:49	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:49	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 21:49	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 21:49	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 21:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 21:49	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/21/18 21:49	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 21:49	107-13-1	
Benzene	**12100**	ug/L	100	24.0	100		09/21/18 22:15	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 21:49	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:49	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:49	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 21:49	74-83-9	
Carbon disulfide	**1.6J**	ug/L	5.0	1.6	5		09/21/18 21:49	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 21:49	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/21/18 21:49	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 21:49	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 21:49	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 21:49	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:49	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 21:49	74-95-3	
Ethylbenzene	**248**	ug/L	5.0	1.6	5		09/21/18 21:49	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 21:49	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 21:49	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 21:49	75-09-2	
Naphthalene	**1330**	ug/L	10.0	4.1	5		09/21/18 21:49	91-20-3	
Styrene	**374**	ug/L	5.0	0.85	5		09/21/18 21:49	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:49	127-18-4	
Toluene	**7280**	ug/L	100	30.0	100		09/21/18 22:15	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 21:49	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 21:49	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 21:49	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 21:49	75-01-4	
Xylene (Total)	**2020**	ug/L	15.0	3.9	5		09/21/18 21:49	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 21:49	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 21:49	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO37-PZM038 **Lab ID: 30265025005** Collected: 09/13/18 11:10 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 21:49	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 21:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 21:49	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		5		09/21/18 21:49	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		09/21/18 21:49	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		09/21/18 21:49	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		09/21/18 21:49	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO40-PZM008 **Lab ID: 30265025006** Collected: 09/13/18 11:50 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 19:15	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 19:15	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 19:15	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 19:15	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 19:15	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 19:15	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 19:15	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 19:15	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 19:15	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 19:15	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 19:15	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 19:15	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 19:15	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 19:15	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 19:15	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 19:15	108-10-1	
Acetone	**3.1J**	ug/L	10.0	2.8	1		09/21/18 19:15	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 19:15	107-13-1	
Benzene	**5690**	ug/L	20.0	4.8	20		09/21/18 19:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 19:15	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 19:15	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 19:15	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 19:15	74-83-9	
Carbon disulfide	**0.71J**	ug/L	1.0	0.32	1		09/21/18 19:15	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 19:15	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 19:15	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 19:15	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 19:15	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 19:15	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 19:15	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 19:15	74-95-3	
Ethylbenzene	**105**	ug/L	1.0	0.31	1		09/21/18 19:15	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 19:15	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 19:15	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 19:15	75-09-2	
Naphthalene	**2190**	ug/L	40.0	16.4	20		09/21/18 19:41	91-20-3	
Styrene	**70.2**	ug/L	1.0	0.17	1		09/21/18 19:15	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 19:15	127-18-4	
Toluene	**1670**	ug/L	20.0	6.0	20		09/21/18 19:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 19:15	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 19:15	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 19:15	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 19:15	75-01-4	
Xylene (Total)	**614**	ug/L	3.0	0.78	1		09/21/18 19:15	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 19:15	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 19:15	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO40-PZM008 **Lab ID: 30265025006** Collected: 09/13/18 11:50 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 19:15	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 19:15	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 19:15	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	79-129		1		09/21/18 19:15	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		09/21/18 19:15	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		1		09/21/18 19:15	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		1		09/21/18 19:15	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO39-PZM042 **Lab ID: 30265025007** Collected: 09/13/18 13:40 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 18:50	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:50	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:50	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:50	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 18:50	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:50	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 18:50	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 18:50	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:50	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 18:50	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:50	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 18:50	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:50	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 18:50	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 18:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 18:50	108-10-1	
Acetone	**3.2J**	ug/L	10.0	2.8	1		09/21/18 18:50	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 18:50	107-13-1	
Benzene	**6040**	ug/L	100	24.0	100		09/25/18 01:29	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:50	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 18:50	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:50	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 18:50	74-83-9	
Carbon disulfide	**2.1**	ug/L	1.0	0.32	1		09/21/18 18:50	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:50	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 18:50	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 18:50	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 18:50	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 18:50	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 18:50	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 18:50	74-95-3	
Ethylbenzene	**70.7**	ug/L	1.0	0.31	1		09/21/18 18:50	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 18:50	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 18:50	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 18:50	75-09-2	
Naphthalene	**1840**	ug/L	20.0	8.2	10		09/24/18 15:36	91-20-3	
Styrene	**98.9**	ug/L	1.0	0.17	1		09/21/18 18:50	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:50	127-18-4	
Toluene	**2240**	ug/L	10.0	3.0	10		09/24/18 15:36	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 18:50	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:50	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 18:50	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:50	75-01-4	
Xylene (Total)	**580**	ug/L	3.0	0.78	1		09/21/18 18:50	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 18:50	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:50	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO39-PZM042 **Lab ID: 30265025007** Collected: 09/13/18 13:40 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 18:50	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 18:50	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 18:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		1		09/21/18 18:50	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		09/21/18 18:50	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		09/21/18 18:50	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		09/21/18 18:50	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO39-PZM007 **Lab ID: 30265025008** Collected: 09/13/18 14:00 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 20:07	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 20:07	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 20:07	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 20:07	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 20:07	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 20:07	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 20:07	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 20:07	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 20:07	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 20:07	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 20:07	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 20:07	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 20:07	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 20:07	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 20:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 20:07	108-10-1	
Acetone	**3.0J**	ug/L	10.0	2.8	1		09/21/18 20:07	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 20:07	107-13-1	
Benzene	**664**	ug/L	20.0	4.8	20		09/21/18 20:33	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 20:07	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 20:07	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 20:07	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 20:07	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 20:07	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 20:07	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 20:07	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 20:07	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 20:07	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 20:07	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 20:07	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 20:07	74-95-3	
Ethylbenzene	**4.1**	ug/L	1.0	0.31	1		09/21/18 20:07	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 20:07	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 20:07	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 20:07	75-09-2	
Naphthalene	**1180**	ug/L	40.0	16.4	20		09/21/18 20:33	91-20-3	
Styrene	**3.0**	ug/L	1.0	0.17	1		09/21/18 20:07	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 20:07	127-18-4	
Toluene	**79.0**	ug/L	1.0	0.30	1		09/21/18 20:07	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 20:07	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 20:07	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 20:07	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 20:07	75-01-4	
Xylene (Total)	**23.6**	ug/L	3.0	0.78	1		09/21/18 20:07	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 20:07	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 20:07	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW
Pace Project No.: 30265025

Sample: CO39-PZM007 **Lab ID: 30265025008** Collected: 09/13/18 14:00 Received: 09/14/18 00:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 20:07	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 20:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 20:07	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		1		09/21/18 20:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		09/21/18 20:07	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		09/21/18 20:07	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		09/21/18 20:07	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

QC Batch: 313878 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30265025002

METHOD BLANK: 1532486 Matrix: Water
Associated Lab Samples: 30265025002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/21/18 14:43	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:43	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/21/18 14:43	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/21/18 14:43	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/21/18 14:43	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/21/18 14:43	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/21/18 14:43	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/21/18 14:43	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/21/18 14:43	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/21/18 14:43	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/21/18 14:43	
Acetone	ug/L	10.0 U	10.0	2.8	09/21/18 14:43	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/21/18 14:43	
Benzene	ug/L	1.0 U	1.0	0.24	09/21/18 14:43	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/21/18 14:43	
Bromoform	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/21/18 14:43	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/21/18 14:43	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/21/18 14:43	
Chloroform	ug/L	1.0 U	1.0	0.30	09/21/18 14:43	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/21/18 14:43	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/21/18 14:43	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/21/18 14:43	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/21/18 14:43	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/21/18 14:43	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/21/18 14:43	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/21/18 14:43	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/21/18 14:43	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/21/18 14:43	
Styrene	ug/L	1.0 U	1.0	0.17	09/21/18 14:43	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Toluene	ug/L	1.0 U	1.0	0.30	09/21/18 14:43	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

METHOD BLANK: 1532486 Matrix: Water
Associated Lab Samples: 30265025002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/21/18 14:43	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/21/18 14:43	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/21/18 14:43	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/21/18 14:43	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:43	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/21/18 14:43	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/21/18 14:43	
1,2-Dichloroethane-d4 (S)	%.	96	80-120		09/21/18 14:43	
4-Bromofluorobenzene (S)	%.	100	79-129		09/21/18 14:43	
Dibromofluoromethane (S)	%.	106	80-120		09/21/18 14:43	
Toluene-d8 (S)	%.	99	80-120		09/21/18 14:43	

LABORATORY CONTROL SAMPLE: 1532487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	99	70-130	
1,1,1-Trichloroethane	ug/L	20	18.5	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	65-127	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	19.7	98	70-130	
1,1-Dichloroethene	ug/L	20	19.3	97	70-130	
1,2,3-Trichloropropane	ug/L	20	18.7	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.2	96	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	17.7	89	70-130	
1,2-Dichloroethane	ug/L	20	17.8	89	70-130	
1,2-Dichloropropane	ug/L	20	20.9	105	70-130	
1,4-Dichlorobenzene	ug/L	20	17.7	89	70-130	
2-Butanone (MEK)	ug/L	20	17.9	89	72-170	
2-Hexanone	ug/L	20	18.0	90	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.0	90	66-150	
Acetone	ug/L	20	23.0	115	30-179	
Acrylonitrile	ug/L	20	21.8	109	48-172	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	24.2	121	70-130	
Bromodichloromethane	ug/L	20	19.9	99	70-130	
Bromoform	ug/L	20	21.2	106	70-130	
Bromomethane	ug/L	20	23.0	115	47-174	
Carbon disulfide	ug/L	20	22.9	115	43-133	
Carbon tetrachloride	ug/L	20	21.5	108	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	20.2	101	67-139	
Chloroform	ug/L	20	18.7	93	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

LABORATORY CONTROL SAMPLE: 1532487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.8	89	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	21.7	109	70-130	
Dibromomethane	ug/L	20	21.6	108	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
Iodomethane	ug/L	20	16.3J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	21.4	107	70-130	
Methylene Chloride	ug/L	20	18.1	91	55-144	
Naphthalene	ug/L	20	19.2	96	70-130	
Styrene	ug/L	20	19.6	98	70-130	
Tetrachloroethene	ug/L	20	20.7	103	70-130	
Toluene	ug/L	20	17.8	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.3	86	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.0	80	27-116	
Trichloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	23.6	118	60-148	
Vinyl acetate	ug/L	20	15.0	75	30-181	
Vinyl chloride	ug/L	20	21.7	108	70-130	
Xylene (Total)	ug/L	60	56.2	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			94	80-120	
4-Bromofluorobenzene (S)	%.			96	79-129	
Dibromofluoromethane (S)	%.			106	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533355 1533356

Parameter	Units	30264613002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.5	19.7	83	98	51-124	17	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	15.3	17.4	76	87	79-129	13	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.0	20.7	80	104	57-118	26	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.4	20.0	87	100	68-117	14	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.7	18.6	79	93	74-119	17	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	15.1	18.0	76	90	63-126	17	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.3	19.2	77	96	56-129	22	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.0	18.0	75	90	53-120	18	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.2	20.9	86	104	69-124	19	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	15.3	19.0	77	95	72-119	21	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	12.6	15.6	63	78	69-116	22	30	ML
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.2	20.4	86	102	63-118	17	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.6	18.7	78	94	72-118	18	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	11.3	12.9	48	56	72-168	13	30	ML

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1533355			1533356							
Parameter	Units	30264613002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	10.2	12.3	51	62	66-143	19	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	10.8	13.0	54	65	67-145	19	30	ML
Acetone	ug/L	10.3	20	20	21.7	22.9	57	63	15-175	5	30	
Acrylonitrile	ug/L	4.0 U	20	20	13.0	15.5	65	77	36-165	17	30	
Benzene	ug/L	19.7	20	20	34.5	39.1	74	97	67-121	12	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.1	23.3	101	117	62-128	15	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.8	20.1	84	100	66-127	18	30	
Bromoform	ug/L	1.0 U	20	20	16.5	20.9	83	105	71-127	23	30	
Bromomethane	ug/L	1.0 U	20	20	15.2	19.7	76	98	10-156	26	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.2	18.4	81	92	45-131	13	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.2	19.9	86	100	69-134	15	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.0	19.6	85	98	69-119	14	30	
Chloroethane	ug/L	1.0 U	20	20	21.8	25.3	109	126	60-156	15	30	
Chloroform	ug/L	1.0 U	20	20	14.8	18.1	74	90	69-115	20	30	
Chloromethane	ug/L	1.0 U	20	20	12.1	14.7	61	73	52-145	19	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.0	16.4	70	82	65-120	15	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.4	17.6	77	88	57-125	13	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.8	21.2	89	106	64-131	17	30	
Dibromomethane	ug/L	1.0 U	20	20	18.4	21.2	92	106	56-133	14	30	
Ethylbenzene	ug/L	1.9	20	20	18.1	21.0	81	95	70-127	15	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	11.7J	38	59	10-152		30	
Methyl-tert-butyl ether	ug/L	4.1	20	20	17.5	20.5	67	82	79-135	16	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	13.2	15.3	63	74	54-133	15	30	
Naphthalene	ug/L	37.5	20	20	47.7	58.5	51	105	62-131	20	30	ML
Styrene	ug/L	1.0 U	20	20	16.7	20.1	84	100	65-121	18	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.5	21.7	92	108	77-125	16	30	
Toluene	ug/L	0.49J	20	20	16.8	19.5	82	95	77-125	15	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.7	18.2	78	91	70-119	15	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.0	16.7	70	83	52-125	18	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.5	11.7	38	59	13-100	43	30	R1
Trichloroethene	ug/L	1.0 U	20	20	17.3	20.8	87	104	74-128	18	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	25.3	29.5	127	148	54-164	15	30	
Vinyl acetate	ug/L	10.0 U	20	20	10.3	12.3	52	62	15-173	18	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.2	23.4	96	117	60-131	20	30	
Xylene (Total)	ug/L	1.3J	60	60	49.9	60.1	81	98	69-128	19	30	
1,2-Dichloroethane-d4 (S)	%.						80	82	80-120			
4-Bromofluorobenzene (S)	%.						98	105	79-129			
Dibromofluoromethane (S)	%.						98	100	80-120			
Toluene-d8 (S)	%.						97	98	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

QC Batch: 313879 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30265025001, 30265025003, 30265025004, 30265025005, 30265025006, 30265025007, 30265025008

METHOD BLANK: 1532489 Matrix: Water
Associated Lab Samples: 30265025001, 30265025003, 30265025004, 30265025005, 30265025006, 30265025007, 30265025008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/21/18 14:56	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:56	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/21/18 14:56	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/21/18 14:56	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/21/18 14:56	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/21/18 14:56	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/21/18 14:56	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/21/18 14:56	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/21/18 14:56	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/21/18 14:56	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/21/18 14:56	
Acetone	ug/L	10.0 U	10.0	2.8	09/21/18 14:56	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/21/18 14:56	
Benzene	ug/L	1.0 U	1.0	0.24	09/21/18 14:56	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/21/18 14:56	
Bromoform	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/21/18 14:56	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/21/18 14:56	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/21/18 14:56	
Chloroform	ug/L	1.0 U	1.0	0.30	09/21/18 14:56	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/21/18 14:56	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/21/18 14:56	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/21/18 14:56	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/21/18 14:56	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/21/18 14:56	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/21/18 14:56	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/21/18 14:56	
Methylene Chloride	ug/L	0.85J	1.0	0.77	09/21/18 14:56	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/21/18 14:56	
Styrene	ug/L	1.0 U	1.0	0.17	09/21/18 14:56	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Toluene	ug/L	1.0 U	1.0	0.30	09/21/18 14:56	

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

METHOD BLANK: 1532489 Matrix: Water
Associated Lab Samples: 30265025001, 30265025003, 30265025004, 30265025005, 30265025006, 30265025007, 30265025008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/21/18 14:56	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/21/18 14:56	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/21/18 14:56	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/21/18 14:56	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:56	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/21/18 14:56	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/21/18 14:56	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		09/21/18 14:56	
4-Bromofluorobenzene (S)	%.	106	79-129		09/21/18 14:56	
Dibromofluoromethane (S)	%.	104	80-120		09/21/18 14:56	
Toluene-d8 (S)	%.	95	80-120		09/21/18 14:56	

LABORATORY CONTROL SAMPLE: 1532490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	94	65-127	
1,1,2-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	19.7	99	70-130	
1,2,3-Trichloropropane	ug/L	20	17.5	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.6	93	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	20	17.9	89	70-130	
1,2-Dichloroethane	ug/L	20	17.7	88	70-130	
1,2-Dichloropropane	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	17.2	86	70-130	
2-Butanone (MEK)	ug/L	20	18.7	94	72-170	
2-Hexanone	ug/L	20	17.6	88	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	66-150	
Acetone	ug/L	20	25.3	126	30-179	
Acrylonitrile	ug/L	20	21.4	107	48-172	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	21.4	107	70-130	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	21.2	106	70-130	
Bromomethane	ug/L	20	20.7	103	47-174	
Carbon disulfide	ug/L	20	21.7	109	43-133	
Carbon tetrachloride	ug/L	20	20.5	103	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	17.0	85	67-139	
Chloroform	ug/L	20	18.2	91	70-130	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

LABORATORY CONTROL SAMPLE: 1532490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.9	84	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.3	91	70-130	
Dibromochloromethane	ug/L	20	21.2	106	70-130	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	20	16.2J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	20.3	102	70-130	
Methylene Chloride	ug/L	20	19.2	96	55-144	
Naphthalene	ug/L	20	18.6	93	70-130	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.5	87	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.6	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.9	75	27-116	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	24.6	123	60-148	
Vinyl acetate	ug/L	20	15.6	78	30-181	
Vinyl chloride	ug/L	20	20.0	100	70-130	
Xylene (Total)	ug/L	60	57.9	96	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			106	79-129	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533357 1533358

Parameter	Units	30264877004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.4	19.5	97	97	51-124	0	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.1	17.7	86	88	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.5	19.1	93	95	57-118	3	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.8	20.6	99	103	68-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.7	18.7	93	94	74-119	0	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.1	18.0	91	90	63-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.7	17.8	89	89	56-129	0	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	18.0	17.6	90	88	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.5	19.7	98	99	69-124	1	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.2	18.4	91	92	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	15.2	74	76	69-116	2	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	19.6	19.8	98	99	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.5	18.0	87	90	72-118	3	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.0	12.1	65	60	72-168	7	30	ML

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QUALITY CONTROL DATA

Project: COA IM GW
Pace Project No.: 30265025

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1533357			1533358							
Parameter	Units	30264877004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	12.5	12.0	63	60	66-143	5	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	13.4	12.8	67	64	67-145	4	30	ML
Acetone	ug/L	4.0J	20	20	20.5	19.2	83	76	15-175	7	30	
Acrylonitrile	ug/L	4.0 U	20	20	15.0	14.7	75	73	36-165	2	30	
Benzene	ug/L	0.61J	20	20	20.4	20.6	99	100	67-121	1	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.2	21.4	101	107	62-128	6	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.5	20.1	98	101	66-127	3	30	
Bromoform	ug/L	1.0 U	20	20	20.0	20.0	100	100	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	8.0	12.6	38	61	10-156	44	30	R1
Carbon disulfide	ug/L	1.0 U	20	20	17.6	18.5	88	92	45-131	5	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.4	19.5	97	97	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.7	20.0	98	100	69-119	2	30	
Chloroethane	ug/L	1.0 U	20	20	17.1	21.3	86	107	60-156	22	30	
Chloroform	ug/L	1.0 U	20	20	17.9	18.2	90	91	69-115	1	30	
Chloromethane	ug/L	1.0 U	20	20	12.0	13.4	60	67	52-145	11	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.2	16.9	86	84	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.8	18.3	89	92	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	21.0	21.1	105	105	64-131	0	30	
Dibromomethane	ug/L	1.0 U	20	20	21.0	21.0	105	105	56-133	0	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.9	20.4	105	102	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.9J	5.8J	15	29	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.2	16.2	81	81	79-135	0	30	
Methylene Chloride	ug/L	1.0 U	20	20	14.5	13.7	73	68	54-133	6	30	
Naphthalene	ug/L	2.0 U	20	20	22.2	18.8	111	94	62-131	17	30	
Styrene	ug/L	1.0 U	20	20	19.1	19.2	96	96	65-121	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	21.9	21.5	110	108	77-125	2	30	
Toluene	ug/L	0.88J	20	20	20.3	20.0	97	96	77-125	2	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.9	17.2	85	86	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.9	16.9	84	85	52-125	0	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	9.2	8.0	46	40	13-100	14	30	
Trichloroethene	ug/L	1.0 U	20	20	20.2	20.4	101	102	74-128	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	31.2	30.8	156	154	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	12.8	12.3	64	61	15-173	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	20.5	21.4	103	107	60-131	4	30	
Xylene (Total)	ug/L	3.4	60	60	63.1	63.2	99	100	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						83	81	80-120			
4-Bromofluorobenzene (S)	%.						106	106	79-129			
Dibromofluoromethane (S)	%.						98	98	80-120			
Toluene-d8 (S)	%.						100	98	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW
Pace Project No.: 30265025

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW
Pace Project No.: 30265025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30265025001	**Trip Blank**	EPA 8260B	313879		
30265025002	**CO60-PZP001**	EPA 8260B	313878		
30265025003	**CO93-PZMXXX**	EPA 8260B	313879		
30265025004	**CO18-PZM006**	EPA 8260B	313879		
30265025005	**CO37-PZM038**	EPA 8260B	313879		
30265025006	**CO40-PZM008**	EPA 8260B	313879		
30265025007	**CO39-PZM042**	EPA 8260B	313879		
30265025008	**CO39-PZM007**	EPA 8260B	313879		

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WO# : 30265025

30265025

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Page: 1 of 1

B Project Information:

Company:	EnviroAnalytics Group
Address:	1430 Sparrows Point Blvd
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5day
Report To:	James Calenda
Copy To:	
PO Number:	
Project Name:	COA IM GW
Project Number:	180227m-1-2

Section C Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	DI Water	Y/N	Analysis Test: VOC/8260B	SVOC 8270D	DRO/8015B	GRO/8015B	METALS/6010C	Mercury/7471A or 7470A	Hexavalent Chromium/7196A	Total Cyanide/9012A	PCB/8082 (soil)	Naphthalene	Oil and Grease/1664A (aq	Oil and Grease/9071B (soil)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			9/13/18	—		2				2						X											001
2	C060-PZP001	WT	G						3				3						X							X				002
3	C093-PZMXXX	WT	G						3				3						X							X				003
4	C018-PZM006	WT	G						3				3						X							X				004
5	C037-PZM038	WT	G						3				3						X							X				005
6	C040-PZM008	WT	G						3				3						X							X				006
7	C039-PZM042	WT	G						3				3						X							X				007
8	C039-PZM007	WT	G						3				3						X							X				008
9	C038-PZM043	WT	G						3				3						X							X				009
10	C038-PZM006	WT	G						3				3						X							X				~~010~~
11																														BM
12																														9-14-18

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Data Package Required? (Y/N):		9-13-18	1600		9/13/18	1619				
Data Validation Required? (Y/N)		9/13/18	1850		9-13-18	1950		✓		
If data package is required, attach data package checklist.		9/14/18	0825		9/14/18	0825	4.3	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-13-18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: enviroanalytical Project # 30265025

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BJH
LIMS Login BJH

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 10 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 4.2 °C Correction Factor: +0.1 °C Final Temp: 4.3 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# N/A / Date and Initials of person examining contents: BJH 9/14/18
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT		✓		5. Received 6 vials for sample 009, did not receive sample 010
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenolics			✓	16. Initial when completed / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18. 1 water and 1 soil
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BJH Date: 9/14/18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: Times for Samples:

Sample 002 = 855 Sample 003: 0950 Sample 004: 1030 Sample 005 = 1110
Sample 006 = 1150 Sample 007: 1340 Sample 008 = 1400 Sample 009 = 1455

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical™
www.pacelabs.com

REVISED
By Samantha Bayura at 5:28 pm, 9/14/18

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:
Company: EnviroAnalytics Group
Address: 1600 Sparrows Point Blvd, Suite B2
Sparrows Point, MD 21219
Email To: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 Fax:
Requested Due Date/TAT: 5 Day

Section B Required Project Information:
Report To: James Calenda
Copy To: Stewart Kabis
Purchase Order No.: EAG-SPT-6989
Project Name: COA IM GW Sampling
Project Number: 180227m-1-2

Section C Invoice Information:
Attention: Laura Sargent
Company Name: EnviroAnalytics Group
Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager: Samantha Bayura
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MD

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC + NAPH by 8260 VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			9-13-18	—		2				2					X		
2	C060-PZP001	WT	G				855		3				3					X		
3	C093-PZMXXX	WT	G				950		3				3					X		
4	C018-PZM006	WT	G				1030		3				3					X		
5	C037-PZM038	WT	G				1110		3				3					X		
6	C040-PZM008	WT	G				1150		3				3					X		
7	C039-PZM042	WT	G				1340		3				3					X		
8	C039-PZM007	WT	G				1400		3				3					X		
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
No Pkgs		9-13-18	1600				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perrin
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 9-13-18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 25, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30265195001	**Trip Blank**	Water	09/14/18 00:01	09/14/18 23:40
30265195002	**CO42-PZM004**	Water	09/14/18 09:15	09/14/18 23:40
30265195003	**CO27-PZM012**	Water	09/14/18 10:10	09/14/18 23:40
30265195004	**CO27-PZM046**	Water	09/14/18 10:45	09/14/18 23:40
30265195005	**CO46-PZM047**	Water	09/14/18 11:10	09/14/18 23:40
30265195006	**CO38-PZM043**	Water	09/14/18 13:15	09/14/18 23:40
30265195007	**CO38-PZM006**	Water	09/14/18 13:25	09/14/18 23:40

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30265195001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30265195002	**CO42-PZM004**	EPA 8260B	MAK	53	PASI-PA
30265195003	**CO27-PZM012**	EPA 8260B	MAK	53	PASI-PA
30265195004	**CO27-PZM046**	EPA 8260B	MAK	53	PASI-PA
30265195005	**CO46-PZM047**	EPA 8260B	MAK	53	PASI-PA
30265195006	**CO38-PZM043**	EPA 8260B	MAK	53	PASI-PA
30265195007	**CO38-PZM006**	EPA 8260B	MAK	53	PASI-PA

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: Trip Blank **Lab ID: 30265195001** Collected: 09/14/18 00:01 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 18:24	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:24	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:24	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:24	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 18:24	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:24	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 18:24	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		09/21/18 18:24	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:24	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 18:24	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:24	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 18:24	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:24	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		09/21/18 18:24	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		09/21/18 18:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		09/21/18 18:24	108-10-1	
Acetone	**7.1J**	ug/L	5.0	2.8	1		09/21/18 18:24	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 18:24	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/21/18 18:24	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:24	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 18:24	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:24	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 18:24	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:24	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:24	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 18:24	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 18:24	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 18:24	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 18:24	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 18:24	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 18:24	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:24	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		09/21/18 18:24	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 18:24	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 18:24	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/21/18 18:24	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/21/18 18:24	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:24	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 18:24	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 18:24	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:24	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		09/21/18 18:24	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:24	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		09/21/18 18:24	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 18:24	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:24	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: Trip Blank **Lab ID: 30265195001** Collected: 09/14/18 00:01 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 18:24	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 18:24	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		09/21/18 18:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		1		09/21/18 18:24	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		09/21/18 18:24	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		09/21/18 18:24	2037-26-5	
Dibromofluoromethane (S)	108	%.	80-120		1		09/21/18 18:24	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO42-PZM004 **Lab ID: 30265195002** Collected: 09/14/18 09:15 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 18:11	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:11	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:11	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:11	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 18:11	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:11	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 18:11	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 18:11	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:11	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 18:11	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:11	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 18:11	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:11	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 18:11	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 18:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 18:11	108-10-1	
Acetone	**7.2J**	ug/L	10.0	2.8	1		09/21/18 18:11	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 18:11	107-13-1	
Benzene	**294**	ug/L	1.0	0.24	1		09/21/18 18:11	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:11	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 18:11	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:11	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 18:11	74-83-9	
Carbon disulfide	**0.87J**	ug/L	1.0	0.32	1		09/21/18 18:11	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:11	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/21/18 18:11	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 18:11	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 18:11	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 18:11	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 18:11	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 18:11	74-95-3	
Ethylbenzene	**56.2**	ug/L	1.0	0.31	1		09/21/18 18:11	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 18:11	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 18:11	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 18:11	75-09-2	
Naphthalene	**210**	ug/L	2.0	0.82	1		09/21/18 18:11	91-20-3	
Styrene	**53.0**	ug/L	1.0	0.17	1		09/21/18 18:11	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:11	127-18-4	
Toluene	**615**	ug/L	10.0	3.0	10		09/24/18 15:23	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 18:11	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:11	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 18:11	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:11	75-01-4	
Xylene (Total)	**409**	ug/L	3.0	0.78	1		09/21/18 18:11	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 18:11	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:11	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO42-PZM004 **Lab ID: 30265195002** Collected: 09/14/18 09:15 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 18:11	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 18:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 18:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	79-129		1		09/21/18 18:11	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		09/21/18 18:11	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		09/21/18 18:11	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		1		09/21/18 18:11	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO27-PZM012 **Lab ID: 30265195003** Collected: 09/14/18 10:10 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 23:31	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 23:31	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 23:31	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 23:31	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/21/18 23:31	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 23:31	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/21/18 23:31	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/21/18 23:31	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 23:31	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/21/18 23:31	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 23:31	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 23:31	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/21/18 23:31	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/21/18 23:31	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/21/18 23:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/21/18 23:31	108-10-1	
Acetone	**20.3J**	ug/L	50.0	14.2	5		09/21/18 23:31	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/21/18 23:31	107-13-1	
Benzene	**6490**	ug/L	100	24.0	100		09/21/18 23:56	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 23:31	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 23:31	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 23:31	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/21/18 23:31	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 23:31	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/21/18 23:31	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/21/18 23:31	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/21/18 23:31	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/21/18 23:31	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/21/18 23:31	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 23:31	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 23:31	74-95-3	
Ethylbenzene	**59.8**	ug/L	5.0	1.6	5		09/21/18 23:31	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/21/18 23:31	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 23:31	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/21/18 23:31	75-09-2	
Naphthalene	**482**	ug/L	10.0	4.1	5		09/21/18 23:31	91-20-3	
Styrene	**54.7**	ug/L	5.0	0.85	5		09/21/18 23:31	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 23:31	127-18-4	
Toluene	**1130**	ug/L	5.0	1.5	5		09/21/18 23:31	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/21/18 23:31	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/21/18 23:31	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/21/18 23:31	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/21/18 23:31	75-01-4	
Xylene (Total)	**511**	ug/L	15.0	3.9	5		09/21/18 23:31	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/21/18 23:31	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/21/18 23:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO27-PZM012 **Lab ID: 30265195003** Collected: 09/14/18 10:10 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/21/18 23:31	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/21/18 23:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/21/18 23:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		5		09/21/18 23:31	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		5		09/21/18 23:31	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		09/21/18 23:31	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		09/21/18 23:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO27-PZM046 **Lab ID: 30265195004** Collected: 09/14/18 10:45 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/22/18 00:09	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:09	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:09	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:09	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/22/18 00:09	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:09	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/22/18 00:09	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/22/18 00:09	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:09	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/22/18 00:09	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:09	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:09	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:09	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/22/18 00:09	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/22/18 00:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/22/18 00:09	108-10-1	
Acetone	**36.5J**	ug/L	50.0	14.2	5		09/22/18 00:09	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/22/18 00:09	107-13-1	
Benzene	**346000**	ug/L	2000	480	2000		09/22/18 00:34	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:09	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:09	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:09	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/22/18 00:09	74-83-9	
Carbon disulfide	**1.7J**	ug/L	5.0	1.6	5		09/22/18 00:09	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:09	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/22/18 00:09	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/22/18 00:09	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/22/18 00:09	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/22/18 00:09	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:09	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/22/18 00:09	74-95-3	
Ethylbenzene	**932**	ug/L	5.0	1.6	5		09/22/18 00:09	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/22/18 00:09	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:09	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/22/18 00:09	75-09-2	
Naphthalene	**1680**	ug/L	10.0	4.1	5		09/22/18 00:09	91-20-3	
Styrene	**204**	ug/L	5.0	0.85	5		09/22/18 00:09	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:09	127-18-4	
Toluene	**70700**	ug/L	2000	600	2000		09/22/18 00:34	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/22/18 00:09	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:09	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/22/18 00:09	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:09	75-01-4	
Xylene (Total)	**23900**	ug/L	6000	1560	2000		09/22/18 00:34	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/22/18 00:09	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:09	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO27-PZM046 **Lab ID: 30265195004** Collected: 09/14/18 10:45 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/22/18 00:09	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/22/18 00:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/22/18 00:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		5		09/22/18 00:09	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		5		09/22/18 00:09	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		5		09/22/18 00:09	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		09/22/18 00:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO46-PZM047 **Lab ID: 30265195005** Collected: 09/14/18 11:10 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/22/18 00:22	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:22	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:22	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:22	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/22/18 00:22	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:22	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/22/18 00:22	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/22/18 00:22	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:22	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/22/18 00:22	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:22	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:22	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:22	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/22/18 00:22	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/22/18 00:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/22/18 00:22	108-10-1	
Acetone	**16.3J**	ug/L	50.0	14.2	5		09/22/18 00:22	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/22/18 00:22	107-13-1	
Benzene	**703**	ug/L	5.0	1.2	5		09/22/18 00:22	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:22	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:22	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:22	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/22/18 00:22	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:22	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:22	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/22/18 00:22	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/22/18 00:22	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/22/18 00:22	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/22/18 00:22	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:22	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/22/18 00:22	74-95-3	
Ethylbenzene	**12.2**	ug/L	5.0	1.6	5		09/22/18 00:22	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/22/18 00:22	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:22	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/22/18 00:22	75-09-2	
Naphthalene	**63.2**	ug/L	10.0	4.1	5		09/22/18 00:22	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		09/22/18 00:22	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:22	127-18-4	
Toluene	**174**	ug/L	5.0	1.5	5		09/22/18 00:22	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/22/18 00:22	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:22	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/22/18 00:22	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:22	75-01-4	
Xylene (Total)	**123**	ug/L	15.0	3.9	5		09/22/18 00:22	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/22/18 00:22	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:22	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO46-PZM047 **Lab ID: 30265195005** Collected: 09/14/18 11:10 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/22/18 00:22	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/22/18 00:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/22/18 00:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	79-129		5		09/22/18 00:22	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	80-120		5		09/22/18 00:22	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		09/22/18 00:22	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		09/22/18 00:22	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO38-PZM043 **Lab ID: 30265195006** Collected: 09/14/18 13:15 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/21/18 18:37	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:37	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:37	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:37	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/21/18 18:37	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:37	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/21/18 18:37	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/21/18 18:37	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:37	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/21/18 18:37	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:37	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/21/18 18:37	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/21/18 18:37	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/21/18 18:37	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/21/18 18:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/21/18 18:37	108-10-1	
Acetone	**3.3J**	ug/L	10.0	2.8	1		09/21/18 18:37	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/21/18 18:37	107-13-1	
Benzene	**4.0**	ug/L	1.0	0.24	1		09/21/18 18:37	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:37	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/21/18 18:37	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:37	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/21/18 18:37	74-83-9	
Carbon disulfide	**0.32J**	ug/L	1.0	0.32	1		09/21/18 18:37	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/21/18 18:37	56-23-5	
Chlorobenzene	**0.27J**	ug/L	1.0	0.15	1		09/21/18 18:37	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/21/18 18:37	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/21/18 18:37	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/21/18 18:37	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/21/18 18:37	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/21/18 18:37	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:37	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/21/18 18:37	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/21/18 18:37	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/21/18 18:37	75-09-2	
Naphthalene	**5.8**	ug/L	2.0	0.82	1		09/21/18 18:37	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/21/18 18:37	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/21/18 18:37	127-18-4	
Toluene	**1.0**	ug/L	1.0	0.30	1		09/21/18 18:37	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/21/18 18:37	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/21/18 18:37	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/21/18 18:37	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/21/18 18:37	75-01-4	
Xylene (Total)	**1.6J**	ug/L	3.0	0.78	1		09/21/18 18:37	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/21/18 18:37	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/21/18 18:37	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO38-PZM043 **Lab ID: 30265195006** Collected: 09/14/18 13:15 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/21/18 18:37	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/21/18 18:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/21/18 18:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		09/21/18 18:37	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		09/21/18 18:37	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		09/21/18 18:37	2037-26-5	
Dibromofluoromethane (S)	108	%.	80-120		1		09/21/18 18:37	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO38-PZM006 **Lab ID: 30265195007** Collected: 09/14/18 13:25 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/22/18 00:59	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:59	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:59	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:59	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/22/18 00:59	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:59	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/22/18 00:59	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/22/18 00:59	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:59	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/22/18 00:59	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:59	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:59	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/22/18 00:59	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/22/18 00:59	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/22/18 00:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/22/18 00:59	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/22/18 00:59	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/22/18 00:59	107-13-1	
Benzene	**4690**	ug/L	100	24.0	100		09/22/18 01:12	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:59	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:59	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:59	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/22/18 00:59	74-83-9	
Carbon disulfide	**1.7J**	ug/L	5.0	1.6	5		09/22/18 00:59	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/22/18 00:59	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/22/18 00:59	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/22/18 00:59	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/22/18 00:59	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/22/18 00:59	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:59	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/22/18 00:59	74-95-3	
Ethylbenzene	**50.8**	ug/L	5.0	1.6	5		09/22/18 00:59	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/22/18 00:59	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:59	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/22/18 00:59	75-09-2	
Naphthalene	**1170**	ug/L	10.0	4.1	5		09/22/18 00:59	91-20-3	
Styrene	**35.9**	ug/L	5.0	0.85	5		09/22/18 00:59	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:59	127-18-4	
Toluene	**920**	ug/L	5.0	1.5	5		09/22/18 00:59	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/22/18 00:59	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/22/18 00:59	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/22/18 00:59	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/22/18 00:59	75-01-4	
Xylene (Total)	**443**	ug/L	15.0	3.9	5		09/22/18 00:59	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/22/18 00:59	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/22/18 00:59	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Sample: CO38-PZM006 **Lab ID: 30265195007** Collected: 09/14/18 13:25 Received: 09/14/18 23:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/22/18 00:59	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/22/18 00:59	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/22/18 00:59	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	79-129		5		09/22/18 00:59	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%.	80-120		5		09/22/18 00:59	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		09/22/18 00:59	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		09/22/18 00:59	1868-53-7	

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

QC Batch: 313878 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30265195002, 30265195004, 30265195006, 30265195007

METHOD BLANK: 1532486 Matrix: Water
Associated Lab Samples: 30265195002, 30265195004, 30265195006, 30265195007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/21/18 14:43	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:43	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/21/18 14:43	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/21/18 14:43	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/21/18 14:43	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/21/18 14:43	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/21/18 14:43	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/21/18 14:43	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/21/18 14:43	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/21/18 14:43	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/21/18 14:43	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/21/18 14:43	
Acetone	ug/L	10.0 U	10.0	2.8	09/21/18 14:43	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/21/18 14:43	
Benzene	ug/L	1.0 U	1.0	0.24	09/21/18 14:43	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/21/18 14:43	
Bromoform	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/21/18 14:43	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/21/18 14:43	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/21/18 14:43	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/21/18 14:43	
Chloroform	ug/L	1.0 U	1.0	0.30	09/21/18 14:43	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/21/18 14:43	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/21/18 14:43	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/21/18 14:43	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/21/18 14:43	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/21/18 14:43	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/21/18 14:43	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/21/18 14:43	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/21/18 14:43	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/21/18 14:43	
Styrene	ug/L	1.0 U	1.0	0.17	09/21/18 14:43	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/21/18 14:43	
Toluene	ug/L	1.0 U	1.0	0.30	09/21/18 14:43	

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

METHOD BLANK: 1532486 Matrix: Water
Associated Lab Samples: 30265195002, 30265195004, 30265195006, 30265195007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/21/18 14:43	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/21/18 14:43	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/21/18 14:43	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/21/18 14:43	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:43	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/21/18 14:43	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/21/18 14:43	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/21/18 14:43	
1,2-Dichloroethane-d4 (S)	%.	96	80-120		09/21/18 14:43	
4-Bromofluorobenzene (S)	%.	100	79-129		09/21/18 14:43	
Dibromofluoromethane (S)	%.	106	80-120		09/21/18 14:43	
Toluene-d8 (S)	%.	99	80-120		09/21/18 14:43	

LABORATORY CONTROL SAMPLE: 1532487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	99	70-130	
1,1,1-Trichloroethane	ug/L	20	18.5	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	65-127	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	19.7	98	70-130	
1,1-Dichloroethene	ug/L	20	19.3	97	70-130	
1,2,3-Trichloropropane	ug/L	20	18.7	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	19.2	96	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	70-130	
1,2-Dichlorobenzene	ug/L	20	17.7	89	70-130	
1,2-Dichloroethane	ug/L	20	17.8	89	70-130	
1,2-Dichloropropane	ug/L	20	20.9	105	70-130	
1,4-Dichlorobenzene	ug/L	20	17.7	89	70-130	
2-Butanone (MEK)	ug/L	20	17.9	89	72-170	
2-Hexanone	ug/L	20	18.0	90	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.0	90	66-150	
Acetone	ug/L	20	23.0	115	30-179	
Acrylonitrile	ug/L	20	21.8	109	48-172	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	24.2	121	70-130	
Bromodichloromethane	ug/L	20	19.9	99	70-130	
Bromoform	ug/L	20	21.2	106	70-130	
Bromomethane	ug/L	20	23.0	115	47-174	
Carbon disulfide	ug/L	20	22.9	115	43-133	
Carbon tetrachloride	ug/L	20	21.5	108	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	20.2	101	67-139	
Chloroform	ug/L	20	18.7	93	70-130	

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

LABORATORY CONTROL SAMPLE: 1532487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.8	89	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	21.7	109	70-130	
Dibromomethane	ug/L	20	21.6	108	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
Iodomethane	ug/L	20	16.3J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	21.4	107	70-130	
Methylene Chloride	ug/L	20	18.1	91	55-144	
Naphthalene	ug/L	20	19.2	96	70-130	
Styrene	ug/L	20	19.6	98	70-130	
Tetrachloroethene	ug/L	20	20.7	103	70-130	
Toluene	ug/L	20	17.8	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.3	86	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	16.0	80	27-116	
Trichloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	23.6	118	60-148	
Vinyl acetate	ug/L	20	15.0	75	30-181	
Vinyl chloride	ug/L	20	21.7	108	70-130	
Xylene (Total)	ug/L	60	56.2	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			94	80-120	
4-Bromofluorobenzene (S)	%.			96	79-129	
Dibromofluoromethane (S)	%.			106	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533355 1533356

Parameter	Units	30264613002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.5	19.7	83	98	51-124	17	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	15.3	17.4	76	87	79-129	13	30	ML
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.0	20.7	80	104	57-118	26	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.4	20.0	87	100	68-117	14	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	15.7	18.6	79	93	74-119	17	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	15.1	18.0	76	90	63-126	17	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	15.3	19.2	77	96	56-129	22	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.0	18.0	75	90	53-120	18	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.2	20.9	86	104	69-124	19	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	15.3	19.0	77	95	72-119	21	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	12.6	15.6	63	78	69-116	22	30	ML
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.2	20.4	86	102	63-118	17	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.6	18.7	78	94	72-118	18	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	11.3	12.9	48	56	72-168	13	30	ML

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533355 1533356

Parameter	Units	30264613002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	10.2	12.3	51	62	66-143	19	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	10.8	13.0	54	65	67-145	19	30	ML
Acetone	ug/L	10.3	20	20	21.7	22.9	57	63	15-175	5	30	
Acrylonitrile	ug/L	4.0 U	20	20	13.0	15.5	65	77	36-165	17	30	
Benzene	ug/L	19.7	20	20	34.5	39.1	74	97	67-121	12	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.1	23.3	101	117	62-128	15	30	
Bromodichloromethane	ug/L	1.0 U	20	20	16.8	20.1	84	100	66-127	18	30	
Bromoform	ug/L	1.0 U	20	20	16.5	20.9	83	105	71-127	23	30	
Bromomethane	ug/L	1.0 U	20	20	15.2	19.7	76	98	10-156	26	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.2	18.4	81	92	45-131	13	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	17.2	19.9	86	100	69-134	15	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.0	19.6	85	98	69-119	14	30	
Chloroethane	ug/L	1.0 U	20	20	21.8	25.3	109	126	60-156	15	30	
Chloroform	ug/L	1.0 U	20	20	14.8	18.1	74	90	69-115	20	30	
Chloromethane	ug/L	1.0 U	20	20	12.1	14.7	61	73	52-145	19	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	14.0	16.4	70	82	65-120	15	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.4	17.6	77	88	57-125	13	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.8	21.2	89	106	64-131	17	30	
Dibromomethane	ug/L	1.0 U	20	20	18.4	21.2	92	106	56-133	14	30	
Ethylbenzene	ug/L	1.9	20	20	18.1	21.0	81	95	70-127	15	30	
Iodomethane	ug/L	50.0 U	20	20	7.5J	11.7J	38	59	10-152		30	
Methyl-tert-butyl ether	ug/L	4.1	20	20	17.5	20.5	67	82	79-135	16	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	13.2	15.3	63	74	54-133	15	30	
Naphthalene	ug/L	37.5	20	20	47.7	58.5	51	105	62-131	20	30	ML
Styrene	ug/L	1.0 U	20	20	16.7	20.1	84	100	65-121	18	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.5	21.7	92	108	77-125	16	30	
Toluene	ug/L	0.49J	20	20	16.8	19.5	82	95	77-125	15	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.7	18.2	78	91	70-119	15	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.0	16.7	70	83	52-125	18	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	7.5	11.7	38	59	13-100	43	30	R1
Trichloroethene	ug/L	1.0 U	20	20	17.3	20.8	87	104	74-128	18	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	25.3	29.5	127	148	54-164	15	30	
Vinyl acetate	ug/L	10.0 U	20	20	10.3	12.3	52	62	15-173	18	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.2	23.4	96	117	60-131	20	30	
Xylene (Total)	ug/L	1.3J	60	60	49.9	60.1	81	98	69-128	19	30	
1,2-Dichloroethane-d4 (S)	%.						80	82	80-120			
4-Bromofluorobenzene (S)	%.						98	105	79-129			
Dibromofluoromethane (S)	%.						98	100	80-120			
Toluene-d8 (S)	%.						97	98	80-120			

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

QC Batch: 313879 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30265195001, 30265195003, 30265195005

METHOD BLANK: 1532489 Matrix: Water
Associated Lab Samples: 30265195001, 30265195003, 30265195005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/21/18 14:56	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:56	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/21/18 14:56	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/21/18 14:56	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/21/18 14:56	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/21/18 14:56	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/21/18 14:56	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/21/18 14:56	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/21/18 14:56	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/21/18 14:56	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/21/18 14:56	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/21/18 14:56	
Acetone	ug/L	10.0 U	10.0	2.8	09/21/18 14:56	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/21/18 14:56	
Benzene	ug/L	1.0 U	1.0	0.24	09/21/18 14:56	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/21/18 14:56	
Bromoform	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/21/18 14:56	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/21/18 14:56	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/21/18 14:56	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/21/18 14:56	
Chloroform	ug/L	1.0 U	1.0	0.30	09/21/18 14:56	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/21/18 14:56	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/21/18 14:56	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/21/18 14:56	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/21/18 14:56	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/21/18 14:56	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/21/18 14:56	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/21/18 14:56	
Methylene Chloride	ug/L	0.85J	1.0	0.77	09/21/18 14:56	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/21/18 14:56	
Styrene	ug/L	1.0 U	1.0	0.17	09/21/18 14:56	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/21/18 14:56	
Toluene	ug/L	1.0 U	1.0	0.30	09/21/18 14:56	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

METHOD BLANK: 1532489 Matrix: Water
Associated Lab Samples: 30265195001, 30265195003, 30265195005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/21/18 14:56	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/21/18 14:56	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/21/18 14:56	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/21/18 14:56	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/21/18 14:56	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/21/18 14:56	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/21/18 14:56	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/21/18 14:56	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		09/21/18 14:56	
4-Bromofluorobenzene (S)	%.	106	79-129		09/21/18 14:56	
Dibromofluoromethane (S)	%.	104	80-120		09/21/18 14:56	
Toluene-d8 (S)	%.	95	80-120		09/21/18 14:56	

LABORATORY CONTROL SAMPLE: 1532490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.5	97	70-130	
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	94	65-127	
1,1,2-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	19.7	99	70-130	
1,2,3-Trichloropropane	ug/L	20	17.5	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	18.6	93	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	95	70-130	
1,2-Dichlorobenzene	ug/L	20	17.9	89	70-130	
1,2-Dichloroethane	ug/L	20	17.7	88	70-130	
1,2-Dichloropropane	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	17.2	86	70-130	
2-Butanone (MEK)	ug/L	20	18.7	94	72-170	
2-Hexanone	ug/L	20	17.6	88	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	66-150	
Acetone	ug/L	20	25.3	126	30-179	
Acrylonitrile	ug/L	20	21.4	107	48-172	
Benzene	ug/L	20	19.1	96	70-130	
Bromochloromethane	ug/L	20	21.4	107	70-130	
Bromodichloromethane	ug/L	20	19.8	99	70-130	
Bromoform	ug/L	20	21.2	106	70-130	
Bromomethane	ug/L	20	20.7	103	47-174	
Carbon disulfide	ug/L	20	21.7	109	43-133	
Carbon tetrachloride	ug/L	20	20.5	103	56-143	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	17.0	85	67-139	
Chloroform	ug/L	20	18.2	91	70-130	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

LABORATORY CONTROL SAMPLE: 1532490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	16.9	84	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.3	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.3	91	70-130	
Dibromochloromethane	ug/L	20	21.2	106	70-130	
Dibromomethane	ug/L	20	20.8	104	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	20	16.2J	81	10-175	
Methyl-tert-butyl ether	ug/L	20	20.3	102	70-130	
Methylene Chloride	ug/L	20	19.2	96	55-144	
Naphthalene	ug/L	20	18.6	93	70-130	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	20.7	104	70-130	
Toluene	ug/L	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.5	87	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.6	83	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.9	75	27-116	
Trichloroethene	ug/L	20	20.0	100	70-130	
Trichlorofluoromethane	ug/L	20	24.6	123	60-148	
Vinyl acetate	ug/L	20	15.6	78	30-181	
Vinyl chloride	ug/L	20	20.0	100	70-130	
Xylene (Total)	ug/L	60	57.9	96	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			106	79-129	
Dibromofluoromethane (S)	%.			103	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533357 1533358

Parameter	Units	30264877004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	19.4	19.5	97	97	51-124	0	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.1	17.7	86	88	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.5	19.1	93	95	57-118	3	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.8	20.6	99	103	68-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	18.7	18.7	93	94	74-119	0	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.1	18.0	91	90	63-126	1	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.7	17.8	89	89	56-129	0	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	18.0	17.6	90	88	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.5	19.7	98	99	69-124	1	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	18.2	18.4	91	92	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	14.9	15.2	74	76	69-116	2	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	19.6	19.8	98	99	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.5	18.0	87	90	72-118	3	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	13.0	12.1	65	60	72-168	7	30	ML

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1533357 1533358

Parameter	Units	30264877004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	12.5	12.0	63	60	66-143	5	30	ML
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	13.4	12.8	67	64	67-145	4	30	ML
Acetone	ug/L	4.0J	20	20	20.5	19.2	83	76	15-175	7	30	
Acrylonitrile	ug/L	4.0 U	20	20	15.0	14.7	75	73	36-165	2	30	
Benzene	ug/L	0.61J	20	20	20.4	20.6	99	100	67-121	1	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.2	21.4	101	107	62-128	6	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.5	20.1	98	101	66-127	3	30	
Bromoform	ug/L	1.0 U	20	20	20.0	20.0	100	100	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	8.0	12.6	38	61	10-156	44	30	R1
Carbon disulfide	ug/L	1.0 U	20	20	17.6	18.5	88	92	45-131	5	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.4	19.5	97	97	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.7	20.0	98	100	69-119	2	30	
Chloroethane	ug/L	1.0 U	20	20	17.1	21.3	86	107	60-156	22	30	
Chloroform	ug/L	1.0 U	20	20	17.9	18.2	90	91	69-115	1	30	
Chloromethane	ug/L	1.0 U	20	20	12.0	13.4	60	67	52-145	11	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.2	16.9	86	84	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.8	18.3	89	92	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	21.0	21.1	105	105	64-131	0	30	
Dibromomethane	ug/L	1.0 U	20	20	21.0	21.0	105	105	56-133	0	30	
Ethylbenzene	ug/L	1.0 U	20	20	20.9	20.4	105	102	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.9J	5.8J	15	29	10-152		30	
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	16.2	16.2	81	81	79-135	0	30	
Methylene Chloride	ug/L	1.0 U	20	20	14.5	13.7	73	68	54-133	6	30	
Naphthalene	ug/L	2.0 U	20	20	22.2	18.8	111	94	62-131	17	30	
Styrene	ug/L	1.0 U	20	20	19.1	19.2	96	96	65-121	0	30	
Tetrachloroethene	ug/L	1.0 U	20	20	21.9	21.5	110	108	77-125	2	30	
Toluene	ug/L	0.88J	20	20	20.3	20.0	97	96	77-125	2	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.9	17.2	85	86	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.9	16.9	84	85	52-125	0	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	9.2	8.0	46	40	13-100	14	30	
Trichloroethene	ug/L	1.0 U	20	20	20.2	20.4	101	102	74-128	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	31.2	30.8	156	154	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	12.8	12.3	64	61	15-173	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	20.5	21.4	103	107	60-131	4	30	
Xylene (Total)	ug/L	3.4	60	60	63.1	63.2	99	100	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						83	81	80-120			
4-Bromofluorobenzene (S)	%.						106	106	79-129			
Dibromofluoromethane (S)	%.						98	98	80-120			
Toluene-d8 (S)	%.						100	98	80-120			

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA 3rd Quarter 2018
Pace Project No.: 30265195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30265195001	**Trip Blank**	EPA 8260B	313879		
30265195002	**CO42-PZM004**	EPA 8260B	313878		
30265195003	**CO27-PZM012**	EPA 8260B	313879		
30265195004	**CO27-PZM046**	EPA 8260B	313878		
30265195005	**CO46-PZM047**	EPA 8260B	313879		
30265195006	**CO38-PZM043**	EPA 8260B	313878		
30265195007	**CO38-PZM006**	EPA 8260B	313878		

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CHAIN-OF-C
The Chain-of-Custody

WO# : 30265195

30265195

Page: 1 of 1

Section A
Required Client Information:

Company:	EnviroAnalytics Group
Address:	1430 Sparrows Point Blvd
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5 day

Section B
Required Project Information:

Report To:	James Calenda
Copy To:	
PO Number:	
Project Name:	COA 3rd Quarter 2018
Project Number:	180223M

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY:
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	DI Water	Y/N	Analysis Test: VOC/8260B	SVOC 8270D	DRO/8015B	GRO/8015B	METALS/6010C	Mercury/7471A or 7470A	Hexavalent Chromium/7196A	Total Cyanide/9012A	PCB/8082 (soil)	Naphthalene 8260	Oil and Grease/1664A (aq	Oil and Grease/9071B (soil)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	W				9/14	18		2				HCl						X											001
2	C042-PZM004		G				0915		3				HCl						X									X		002
3	C027-PZM012						1010		3				HCl						X									X		003
4	C027-PZM046						1045		3				HCl						X									X		004
5	C046-PZM047						1110		3				HCl						X									X		005
6	C038-PZM043						1315		3				HCl						X									X		006
7	C038-PZM006						1325		3				HCl						X									X		007
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Data Package Required? (Y/N):		9/14/18	1550		9/14/18	1606
Data Validation Required? (Y/N):		9/14/18	1820		9-14-18	1935
If data package is required, attach data package checklist.		9-14-18	2340		9/14/18	2340

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M. Glumac

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 09/14/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: Spurrows Project # 30265195

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BUM
LIMS Login BUM

Tracking #: NA

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Thermometer Used 10 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.8 °C Correction Factor: +0.1 °C Final Temp: 2.9 °C

Temp should be above freezing to 6°C

pH paper Lot# NA

Date and Initials of person examining contents: 9/15/18 JLB

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			✓	16.
exceptions: (VOA), coliform, TOC, O&G, Phenolics				Initial when completed: OMB Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18.
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 03, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30265341001	**Trip Blank**	Water	09/17/18 00:01	09/17/18 23:55
30265341002	**CO61-PZM007**	Water	09/17/18 08:57	09/17/18 23:55
30265341003	**CO63-PZM007**	Water	09/17/18 09:35	09/17/18 23:55
30265341004	**CO64-PZM006**	Water	09/17/18 09:56	09/17/18 23:55
30265341005	**CO66-PZM005**	Water	09/17/18 10:30	09/17/18 23:55
30265341006	**CO67-PZM006**	Water	09/17/18 11:00	09/17/18 23:55
30265341007	**CO68-PZM005**	Water	09/17/18 11:24	09/17/18 23:55
30265341008	**CO69-PZM005**	Water	09/17/18 11:50	09/17/18 23:55
30265341009	**CO70-PZM005**	Water	09/17/18 12:13	09/17/18 23:55
30265341010	**CO71-PZM006**	Water	09/17/18 12:43	09/17/18 23:55
30265341011	**CO72-PZM005**	Water	09/17/18 13:00	09/17/18 23:55

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SAMPLE ANALYTE COUNT

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30265341001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30265341002	**CO61-PZM007**	EPA 8260B	MAK	53	PASI-PA
30265341003	**CO63-PZM007**	EPA 8260B	MAK	53	PASI-PA
30265341004	**CO64-PZM006**	EPA 8260B	MAK	53	PASI-PA
30265341005	**CO66-PZM005**	EPA 8260B	MAK	53	PASI-PA
30265341006	**CO67-PZM006**	EPA 8260B	MAK	53	PASI-PA
30265341007	**CO68-PZM005**	EPA 8260B	MAK	53	PASI-PA
30265341008	**CO69-PZM005**	EPA 8260B	MAK	53	PASI-PA
30265341009	**CO70-PZM005**	EPA 8260B	MAK	53	PASI-PA
30265341010	**CO71-PZM006**	EPA 8260B	MAK	53	PASI-PA
30265341011	**CO72-PZM005**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: Trip Blank **Lab ID: 30265341001** Collected: 09/17/18 00:01 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/28/18 11:50	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 11:50	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 11:50	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 11:50	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/28/18 11:50	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 11:50	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/28/18 11:50	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		09/28/18 11:50	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 11:50	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/28/18 11:50	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 11:50	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/28/18 11:50	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 11:50	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		09/28/18 11:50	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		09/28/18 11:50	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		09/28/18 11:50	108-10-1	
Acetone	**6.4J**	ug/L	5.0	2.8	1		09/28/18 11:50	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/28/18 11:50	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		09/28/18 11:50	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 11:50	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/28/18 11:50	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 11:50	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/28/18 11:50	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 11:50	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 11:50	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/28/18 11:50	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/28/18 11:50	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/28/18 11:50	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/28/18 11:50	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/28/18 11:50	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/28/18 11:50	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 11:50	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		09/28/18 11:50	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/28/18 11:50	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/28/18 11:50	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		09/28/18 11:50	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		09/28/18 11:50	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 11:50	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		09/28/18 11:50	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/28/18 11:50	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 11:50	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		09/28/18 11:50	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 11:50	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		09/28/18 11:50	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/28/18 11:50	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 11:50	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: Trip Blank **Lab ID: 30265341001** Collected: 09/17/18 00:01 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/28/18 11:50	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/28/18 11:50	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		09/28/18 11:50	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		09/28/18 11:50	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		09/28/18 11:50	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		09/28/18 11:50	2037-26-5	
Dibromofluoromethane (S)	112	%.	80-120		1		09/28/18 11:50	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO61-PZM007 **Lab ID: 30265341002** Collected: 09/17/18 08:57 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/28/18 13:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 13:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 13:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 13:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/28/18 13:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 13:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/28/18 13:06	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/28/18 13:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 13:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/28/18 13:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 13:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/28/18 13:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 13:06	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/28/18 13:06	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/28/18 13:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/28/18 13:06	108-10-1	
Acetone	**3.0J**	ug/L	10.0	2.8	1		09/28/18 13:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/28/18 13:06	107-13-1	
Benzene	**331**	ug/L	1.0	0.24	1		09/28/18 13:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 13:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/28/18 13:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 13:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/28/18 13:06	74-83-9	
Carbon disulfide	**0.35J**	ug/L	1.0	0.32	1		09/28/18 13:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 13:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/28/18 13:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/28/18 13:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/28/18 13:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/28/18 13:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/28/18 13:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/28/18 13:06	74-95-3	
Ethylbenzene	**15.7**	ug/L	1.0	0.31	1		09/28/18 13:06	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/28/18 13:06	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/28/18 13:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/28/18 13:06	75-09-2	
Naphthalene	**2340**	ug/L	40.0	16.4	20		10/01/18 13:19	91-20-3	
Styrene	**40.1**	ug/L	1.0	0.17	1		09/28/18 13:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 13:06	127-18-4	
Toluene	**120**	ug/L	1.0	0.30	1		09/28/18 13:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/28/18 13:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 13:06	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/28/18 13:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 13:06	75-01-4	
Xylene (Total)	**256**	ug/L	3.0	0.78	1		09/28/18 13:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/28/18 13:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 13:06	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO61-PZM007 **Lab ID: 30265341002** Collected: 09/17/18 08:57 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/28/18 13:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/28/18 13:06	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/28/18 13:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		1		09/28/18 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		1		09/28/18 13:06	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		09/28/18 13:06	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		1		09/28/18 13:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO63-PZM007 **Lab ID: 30265341003** Collected: 09/17/18 09:35 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 18:09	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 18:09	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 18:09	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 18:09	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/28/18 18:09	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 18:09	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/28/18 18:09	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/28/18 18:09	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 18:09	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/28/18 18:09	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 18:09	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 18:09	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 18:09	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/28/18 18:09	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/28/18 18:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/28/18 18:09	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/28/18 18:09	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/28/18 18:09	107-13-1	
Benzene	**304**	ug/L	5.0	1.2	5		09/28/18 18:09	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 18:09	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 18:09	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 18:09	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/28/18 18:09	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 18:09	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 18:09	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/28/18 18:09	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 18:09	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/28/18 18:09	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/28/18 18:09	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 18:09	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/28/18 18:09	74-95-3	
Ethylbenzene	**18.0**	ug/L	5.0	1.6	5		09/28/18 18:09	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/28/18 18:09	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 18:09	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/28/18 18:09	75-09-2	
Naphthalene	**3890**	ug/L	100	41.0	50		09/28/18 18:35	91-20-3	
Styrene	**54.9**	ug/L	5.0	0.85	5		09/28/18 18:09	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 18:09	127-18-4	
Toluene	**140**	ug/L	5.0	1.5	5		09/28/18 18:09	108-88-3	
Trichloroethene	**19.1**	ug/L	5.0	2.0	5		09/28/18 18:09	79-01-6	C8
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 18:09	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/28/18 18:09	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 18:09	75-01-4	
Xylene (Total)	**295**	ug/L	15.0	3.9	5		09/28/18 18:09	1330-20-7	
cis-1,2-Dichloroethene	**4.3J**	ug/L	5.0	0.90	5		09/28/18 18:09	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 18:09	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO63-PZM007 **Lab ID: 30265341003** Collected: 09/17/18 09:35 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/28/18 18:09	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/28/18 18:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/28/18 18:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		5		09/28/18 18:09	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		5		09/28/18 18:09	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		09/28/18 18:09	2037-26-5	
Dibromofluoromethane (S)	107	%.	80-120		5		09/28/18 18:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO64-PZM006 **Lab ID: 30265341004** Collected: 09/17/18 09:56 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 19:00	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:00	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:00	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:00	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/28/18 19:00	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:00	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/28/18 19:00	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/28/18 19:00	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:00	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/28/18 19:00	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:00	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:00	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:00	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/28/18 19:00	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/28/18 19:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/28/18 19:00	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		09/28/18 19:00	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/28/18 19:00	107-13-1	
Benzene	**242**	ug/L	5.0	1.2	5		09/28/18 19:00	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:00	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:00	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:00	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/28/18 19:00	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:00	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:00	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/28/18 19:00	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 19:00	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/28/18 19:00	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/28/18 19:00	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:00	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/28/18 19:00	74-95-3	
Ethylbenzene	**12.5**	ug/L	5.0	1.6	5		09/28/18 19:00	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/28/18 19:00	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:00	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/28/18 19:00	75-09-2	
Naphthalene	**2910**	ug/L	100	41.0	50		09/28/18 19:25	91-20-3	
Styrene	**42.3**	ug/L	5.0	0.85	5		09/28/18 19:00	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:00	127-18-4	
Toluene	**104**	ug/L	5.0	1.5	5		09/28/18 19:00	108-88-3	
Trichloroethene	**12.3**	ug/L	5.0	2.0	5		09/28/18 19:00	79-01-6	C8
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:00	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/28/18 19:00	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:00	75-01-4	
Xylene (Total)	**241**	ug/L	15.0	3.9	5		09/28/18 19:00	1330-20-7	
cis-1,2-Dichloroethene	**1.9J**	ug/L	5.0	0.90	5		09/28/18 19:00	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:00	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO64-PZM006 **Lab ID: 30265341004** Collected: 09/17/18 09:56 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/28/18 19:00	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/28/18 19:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/28/18 19:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		5		09/28/18 19:00	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		09/28/18 19:00	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		5		09/28/18 19:00	2037-26-5	
Dibromofluoromethane (S)	105	%.	80-120		5		09/28/18 19:00	1868-53-7	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO66-PZM005 **Lab ID: 30265341005** Collected: 09/17/18 10:30 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 19:51	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:51	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:51	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:51	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/28/18 19:51	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:51	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/28/18 19:51	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/28/18 19:51	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:51	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/28/18 19:51	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:51	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:51	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:51	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/28/18 19:51	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/28/18 19:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/28/18 19:51	108-10-1	
Acetone	**14.8J**	ug/L	50.0	14.2	5		09/28/18 19:51	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/28/18 19:51	107-13-1	
Benzene	**204**	ug/L	5.0	1.2	5		09/28/18 19:51	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:51	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:51	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:51	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/28/18 19:51	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:51	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:51	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/28/18 19:51	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 19:51	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/28/18 19:51	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/28/18 19:51	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:51	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/28/18 19:51	74-95-3	
Ethylbenzene	**11.2**	ug/L	5.0	1.6	5		09/28/18 19:51	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/28/18 19:51	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:51	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/28/18 19:51	75-09-2	
Naphthalene	**3020**	ug/L	100	41.0	50		09/28/18 20:16	91-20-3	
Styrene	**36.4**	ug/L	5.0	0.85	5		09/28/18 19:51	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:51	127-18-4	
Toluene	**83.3**	ug/L	5.0	1.5	5		09/28/18 19:51	108-88-3	
Trichloroethene	**8.7**	ug/L	5.0	2.0	5		09/28/18 19:51	79-01-6	C8
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:51	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/28/18 19:51	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:51	75-01-4	
Xylene (Total)	**214**	ug/L	15.0	3.9	5		09/28/18 19:51	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/28/18 19:51	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:51	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO66-PZM005 **Lab ID: 30265341005** Collected: 09/17/18 10:30 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/28/18 19:51	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/28/18 19:51	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/28/18 19:51	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		5		09/28/18 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		09/28/18 19:51	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		5		09/28/18 19:51	2037-26-5	
Dibromofluoromethane (S)	107	%.	80-120		5		09/28/18 19:51	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO67-PZM006 **Lab ID: 30265341006** Collected: 09/17/18 11:00 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/28/18 17:19	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 17:19	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 17:19	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 17:19	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/28/18 17:19	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 17:19	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/28/18 17:19	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/28/18 17:19	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 17:19	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/28/18 17:19	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 17:19	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/28/18 17:19	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 17:19	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/28/18 17:19	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/28/18 17:19	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/28/18 17:19	108-10-1	
Acetone	**6.2J**	ug/L	10.0	2.8	1		09/28/18 17:19	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/28/18 17:19	107-13-1	
Benzene	**168**	ug/L	1.0	0.24	1		09/28/18 17:19	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 17:19	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/28/18 17:19	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 17:19	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/28/18 17:19	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 17:19	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 17:19	56-23-5	
Chlorobenzene	**0.40J**	ug/L	1.0	0.15	1		09/28/18 17:19	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/28/18 17:19	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/28/18 17:19	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		09/28/18 17:19	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/28/18 17:19	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/28/18 17:19	74-95-3	
Ethylbenzene	**8.8**	ug/L	1.0	0.31	1		09/28/18 17:19	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/28/18 17:19	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/28/18 17:19	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/28/18 17:19	75-09-2	
Naphthalene	**1760**	ug/L	40.0	16.4	20		09/28/18 17:44	91-20-3	
Styrene	**24.4**	ug/L	1.0	0.17	1		09/28/18 17:19	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 17:19	127-18-4	
Toluene	**64.5**	ug/L	1.0	0.30	1		09/28/18 17:19	108-88-3	
Trichloroethene	**7.9**	ug/L	1.0	0.39	1		09/28/18 17:19	79-01-6	C8
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 17:19	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/28/18 17:19	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 17:19	75-01-4	
Xylene (Total)	**170**	ug/L	3.0	0.78	1		09/28/18 17:19	1330-20-7	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.18	1		09/28/18 17:19	156-59-2	C8
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 17:19	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO67-PZM006 **Lab ID: 30265341006** Collected: 09/17/18 11:00 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/28/18 17:19	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/28/18 17:19	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/28/18 17:19	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	79-129		1		09/28/18 17:19	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		09/28/18 17:19	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		09/28/18 17:19	2037-26-5	
Dibromofluoromethane (S)	109	%.	80-120		1		09/28/18 17:19	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO68-PZM005 **Lab ID: 30265341007** Collected: 09/17/18 11:24 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/28/18 20:54	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 20:54	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 20:54	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 20:54	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/28/18 20:54	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 20:54	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/28/18 20:54	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/28/18 20:54	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 20:54	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/28/18 20:54	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 20:54	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/28/18 20:54	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 20:54	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/28/18 20:54	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/28/18 20:54	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/28/18 20:54	108-10-1	
Acetone	**23.1**	ug/L	10.0	2.8	1		09/28/18 20:54	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/28/18 20:54	107-13-1	
Benzene	**200**	ug/L	1.0	0.24	1		09/28/18 20:54	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 20:54	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/28/18 20:54	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 20:54	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		09/28/18 20:54	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 20:54	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 20:54	56-23-5	
Chlorobenzene	**0.39J**	ug/L	1.0	0.15	1		09/28/18 20:54	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/28/18 20:54	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/28/18 20:54	67-66-3	
Chloromethane	**0.96J**	ug/L	1.0	0.68	1		09/28/18 20:54	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/28/18 20:54	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/28/18 20:54	74-95-3	
Ethylbenzene	**10.3**	ug/L	1.0	0.31	1		09/28/18 20:54	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/28/18 20:54	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/28/18 20:54	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/28/18 20:54	75-09-2	
Naphthalene	**2870**	ug/L	40.0	16.4	20		09/28/18 21:19	91-20-3	
Styrene	**27.3**	ug/L	1.0	0.17	1		09/28/18 20:54	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 20:54	127-18-4	
Toluene	**63.0**	ug/L	1.0	0.30	1		09/28/18 20:54	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/28/18 20:54	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 20:54	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/28/18 20:54	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 20:54	75-01-4	
Xylene (Total)	**211**	ug/L	3.0	0.78	1		09/28/18 20:54	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/28/18 20:54	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 20:54	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO68-PZM005 **Lab ID: 30265341007** Collected: 09/17/18 11:24 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/28/18 20:54	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/28/18 20:54	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/28/18 20:54	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		09/28/18 20:54	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		09/28/18 20:54	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		09/28/18 20:54	2037-26-5	
Dibromofluoromethane (S)	107	%.	80-120		1		09/28/18 20:54	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO69-PZM005 **Lab ID: 30265341008** Collected: 09/17/18 11:50 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/28/18 17:57	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 17:57	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 17:57	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 17:57	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/28/18 17:57	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 17:57	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/28/18 17:57	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/28/18 17:57	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 17:57	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/28/18 17:57	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 17:57	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/28/18 17:57	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 17:57	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/28/18 17:57	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/28/18 17:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/28/18 17:57	108-10-1	
Acetone	**21.9**	ug/L	10.0	2.8	1		09/28/18 17:57	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/28/18 17:57	107-13-1	
Benzene	**148**	ug/L	1.0	0.24	1		09/28/18 17:57	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 17:57	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/28/18 17:57	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 17:57	75-25-2	
Bromomethane	**0.50J**	ug/L	1.0	0.49	1		09/28/18 17:57	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 17:57	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 17:57	56-23-5	
Chlorobenzene	**0.37J**	ug/L	1.0	0.15	1		09/28/18 17:57	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/28/18 17:57	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/28/18 17:57	67-66-3	
Chloromethane	**0.83J**	ug/L	1.0	0.68	1		09/28/18 17:57	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/28/18 17:57	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/28/18 17:57	74-95-3	
Ethylbenzene	**8.2**	ug/L	1.0	0.31	1		09/28/18 17:57	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/28/18 17:57	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/28/18 17:57	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/28/18 17:57	75-09-2	
Naphthalene	**1190**	ug/L	40.0	16.4	20		09/28/18 18:22	91-20-3	
Styrene	**16.0**	ug/L	1.0	0.17	1		09/28/18 17:57	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 17:57	127-18-4	
Toluene	**44.6**	ug/L	1.0	0.30	1		09/28/18 17:57	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/28/18 17:57	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 17:57	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/28/18 17:57	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 17:57	75-01-4	
Xylene (Total)	**156**	ug/L	3.0	0.78	1		09/28/18 17:57	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/28/18 17:57	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 17:57	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO69-PZM005 **Lab ID: 30265341008** Collected: 09/17/18 11:50 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/28/18 17:57	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/28/18 17:57	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/28/18 17:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		09/28/18 17:57	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		09/28/18 17:57	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		09/28/18 17:57	2037-26-5	
Dibromofluoromethane (S)	107	%.	80-120		1		09/28/18 17:57	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO70-PZM005 **Lab ID: 30265341009** Collected: 09/17/18 12:13 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		09/28/18 18:47	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 18:47	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 18:47	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 18:47	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		09/28/18 18:47	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 18:47	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		09/28/18 18:47	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		09/28/18 18:47	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 18:47	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		09/28/18 18:47	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 18:47	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		09/28/18 18:47	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		09/28/18 18:47	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		09/28/18 18:47	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		09/28/18 18:47	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		09/28/18 18:47	108-10-1	
Acetone	**32.2**	ug/L	10.0	2.8	1		09/28/18 18:47	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		09/28/18 18:47	107-13-1	
Benzene	**37.4**	ug/L	1.0	0.24	1		09/28/18 18:47	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 18:47	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		09/28/18 18:47	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 18:47	75-25-2	
Bromomethane	**0.84J**	ug/L	1.0	0.49	1		09/28/18 18:47	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 18:47	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		09/28/18 18:47	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		09/28/18 18:47	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		09/28/18 18:47	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		09/28/18 18:47	67-66-3	
Chloromethane	**1.5**	ug/L	1.0	0.68	1		09/28/18 18:47	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		09/28/18 18:47	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		09/28/18 18:47	74-95-3	
Ethylbenzene	**2.4**	ug/L	1.0	0.31	1		09/28/18 18:47	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		09/28/18 18:47	74-88-4	
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		09/28/18 18:47	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		09/28/18 18:47	75-09-2	
Naphthalene	**375**	ug/L	2.0	0.82	1		09/28/18 18:47	91-20-3	
Styrene	**3.9**	ug/L	1.0	0.17	1		09/28/18 18:47	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		09/28/18 18:47	127-18-4	
Toluene	**7.3**	ug/L	1.0	0.30	1		09/28/18 18:47	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		09/28/18 18:47	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		09/28/18 18:47	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		09/28/18 18:47	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		09/28/18 18:47	75-01-4	
Xylene (Total)	**44.0**	ug/L	3.0	0.78	1		09/28/18 18:47	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		09/28/18 18:47	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		09/28/18 18:47	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO70-PZM005 **Lab ID: 30265341009** Collected: 09/17/18 12:13 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		09/28/18 18:47	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		09/28/18 18:47	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		09/28/18 18:47	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		09/28/18 18:47	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		09/28/18 18:47	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		09/28/18 18:47	2037-26-5	
Dibromofluoromethane (S)	107	%.	80-120		1		09/28/18 18:47	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO71-PZM006 **Lab ID: 30265341010** Collected: 09/17/18 12:43 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 19:38	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:38	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:38	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:38	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/28/18 19:38	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:38	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/28/18 19:38	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/28/18 19:38	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:38	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/28/18 19:38	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:38	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:38	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 19:38	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/28/18 19:38	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/28/18 19:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/28/18 19:38	108-10-1	
Acetone	**53.3**	ug/L	50.0	14.2	5		09/28/18 19:38	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/28/18 19:38	107-13-1	
Benzene	**1.7J**	ug/L	5.0	1.2	5		09/28/18 19:38	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:38	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:38	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:38	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/28/18 19:38	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:38	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 19:38	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/28/18 19:38	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 19:38	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/28/18 19:38	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/28/18 19:38	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:38	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/28/18 19:38	74-95-3	
Ethylbenzene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:38	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/28/18 19:38	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:38	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/28/18 19:38	75-09-2	
Naphthalene	**13.8**	ug/L	10.0	4.1	5		09/28/18 19:38	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		09/28/18 19:38	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:38	127-18-4	
Toluene	**2.9J**	ug/L	5.0	1.5	5		09/28/18 19:38	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/28/18 19:38	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 19:38	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/28/18 19:38	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 19:38	75-01-4	
Xylene (Total)	**24.6**	ug/L	15.0	3.9	5		09/28/18 19:38	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/28/18 19:38	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 19:38	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO71-PZM006 **Lab ID: 30265341010** Collected: 09/17/18 12:43 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/28/18 19:38	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/28/18 19:38	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/28/18 19:38	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%.	79-129		5		09/28/18 19:38	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		5		09/28/18 19:38	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		09/28/18 19:38	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		5		09/28/18 19:38	1868-53-7	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO72-PZM005 **Lab ID: 30265341011** Collected: 09/17/18 13:00 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 20:03	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 20:03	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 20:03	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 20:03	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		09/28/18 20:03	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 20:03	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		09/28/18 20:03	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		09/28/18 20:03	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 20:03	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		09/28/18 20:03	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 20:03	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 20:03	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		09/28/18 20:03	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		09/28/18 20:03	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		09/28/18 20:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		09/28/18 20:03	108-10-1	
Acetone	**41.6J**	ug/L	50.0	14.2	5		09/28/18 20:03	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		09/28/18 20:03	107-13-1	
Benzene	**219**	ug/L	5.0	1.2	5		09/28/18 20:03	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 20:03	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 20:03	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 20:03	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		09/28/18 20:03	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 20:03	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		09/28/18 20:03	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		09/28/18 20:03	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		09/28/18 20:03	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		09/28/18 20:03	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		09/28/18 20:03	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 20:03	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		09/28/18 20:03	74-95-3	
Ethylbenzene	**11.2**	ug/L	5.0	1.6	5		09/28/18 20:03	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		09/28/18 20:03	74-88-4	
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 20:03	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		09/28/18 20:03	75-09-2	
Naphthalene	**2400**	ug/L	100	41.0	50		09/28/18 20:29	91-20-3	
Styrene	**36.2**	ug/L	5.0	0.85	5		09/28/18 20:03	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 20:03	127-18-4	
Toluene	**35.2**	ug/L	5.0	1.5	5		09/28/18 20:03	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		09/28/18 20:03	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		09/28/18 20:03	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		09/28/18 20:03	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		09/28/18 20:03	75-01-4	
Xylene (Total)	**214**	ug/L	15.0	3.9	5		09/28/18 20:03	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		09/28/18 20:03	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		09/28/18 20:03	10061-01-5	

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ANALYTICAL RESULTS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Sample: CO72-PZM005 **Lab ID: 30265341011** Collected: 09/17/18 13:00 Received: 09/17/18 23:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		09/28/18 20:03	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		09/28/18 20:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		09/28/18 20:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		5		09/28/18 20:03	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		5		09/28/18 20:03	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		09/28/18 20:03	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		5		09/28/18 20:03	1868-53-7	

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

QC Batch: 314747 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30265341001, 30265341002, 30265341003, 30265341004, 30265341005, 30265341006

METHOD BLANK: 1536205 Matrix: Water
Associated Lab Samples: 30265341001, 30265341002, 30265341003, 30265341004, 30265341005, 30265341006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/28/18 11:24	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/28/18 11:24	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/28/18 11:24	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/28/18 11:24	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/28/18 11:24	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/28/18 11:24	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/28/18 11:24	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/28/18 11:24	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/28/18 11:24	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/28/18 11:24	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/28/18 11:24	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/28/18 11:24	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/28/18 11:24	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/28/18 11:24	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/28/18 11:24	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/28/18 11:24	
Acetone	ug/L	10.0 U	10.0	2.8	09/28/18 11:24	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/28/18 11:24	
Benzene	ug/L	1.0 U	1.0	0.24	09/28/18 11:24	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/28/18 11:24	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/28/18 11:24	
Bromoform	ug/L	1.0 U	1.0	0.32	09/28/18 11:24	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/28/18 11:24	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/28/18 11:24	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/28/18 11:24	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/28/18 11:24	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/28/18 11:24	
Chloroform	ug/L	1.0 U	1.0	0.30	09/28/18 11:24	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/28/18 11:24	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/28/18 11:24	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/28/18 11:24	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/28/18 11:24	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/28/18 11:24	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/28/18 11:24	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/28/18 11:24	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/28/18 11:24	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/28/18 11:24	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/28/18 11:24	
Styrene	ug/L	1.0 U	1.0	0.17	09/28/18 11:24	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/28/18 11:24	
Toluene	ug/L	1.0 U	1.0	0.30	09/28/18 11:24	

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

METHOD BLANK: 1536205 Matrix: Water
Associated Lab Samples: 30265341001, 30265341002, 30265341003, 30265341004, 30265341005, 30265341006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/28/18 11:24	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/28/18 11:24	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/28/18 11:24	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/28/18 11:24	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/28/18 11:24	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/28/18 11:24	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/28/18 11:24	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/28/18 11:24	
1,2-Dichloroethane-d4 (S)	%.	97	80-120		09/28/18 11:24	
4-Bromofluorobenzene (S)	%.	98	79-129		09/28/18 11:24	
Dibromofluoromethane (S)	%.	110	80-120		09/28/18 11:24	
Toluene-d8 (S)	%.	95	80-120		09/28/18 11:24	

LABORATORY CONTROL SAMPLE: 1536206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.6	103	70-130	
1,1,1-Trichloroethane	ug/L	20	18.9	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	89	65-127	
1,1,2-Trichloroethane	ug/L	20	19.5	97	70-130	
1,1-Dichloroethane	ug/L	20	17.6	88	70-130	
1,1-Dichloroethene	ug/L	20	19.5	98	70-130	
1,2,3-Trichloropropane	ug/L	20	18.2	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.9	90	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	98	70-130	
1,2-Dichlorobenzene	ug/L	20	17.3	87	70-130	
1,2-Dichloroethane	ug/L	20	17.6	88	70-130	
1,2-Dichloropropane	ug/L	20	19.7	98	70-130	
1,4-Dichlorobenzene	ug/L	20	18.5	93	70-130	
2-Butanone (MEK)	ug/L	20	19.1	95	72-170	
2-Hexanone	ug/L	20	18.5	92	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	66-150	
Acetone	ug/L	20	21.7	109	30-179	
Acrylonitrile	ug/L	20	19.7	99	48-172	
Benzene	ug/L	20	18.6	93	70-130	
Bromochloromethane	ug/L	20	23.9	120	70-130	
Bromodichloromethane	ug/L	20	19.3	97	70-130	
Bromoform	ug/L	20	19.6	98	70-130	
Bromomethane	ug/L	20	20.6	103	47-174	
Carbon disulfide	ug/L	20	20.8	104	43-133	
Carbon tetrachloride	ug/L	20	19.5	98	56-143	
Chlorobenzene	ug/L	20	19.3	96	70-130	
Chloroethane	ug/L	20	21.3	107	67-139	
Chloroform	ug/L	20	17.9	89	70-130	

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

LABORATORY CONTROL SAMPLE: 1536206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	19.8	99	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.4	87	70-130	
Dibromochloromethane	ug/L	20	20.7	104	70-130	
Dibromomethane	ug/L	20	21.2	106	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Iodomethane	ug/L	20	15.1J	75	10-175	
Methyl-tert-butyl ether	ug/L	20	19.3	97	70-130	
Methylene Chloride	ug/L	20	19.8	99	55-144	
Naphthalene	ug/L	20	18.9	95	70-130	
Styrene	ug/L	20	19.2	96	70-130	
Tetrachloroethene	ug/L	20	20.1	100	70-130	
Toluene	ug/L	20	18.2	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.1	96	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.4	82	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	12.9	65	27-116	
Trichloroethene	ug/L	20	21.3	106	70-130	
Trichlorofluoromethane	ug/L	20	26.0	130	60-148	
Vinyl acetate	ug/L	20	17.4	87	30-181	
Vinyl chloride	ug/L	20	21.9	110	70-130	
Xylene (Total)	ug/L	60	57.2	95	70-130	
1,2-Dichloroethane-d4 (S)	%.			91	80-120	
4-Bromofluorobenzene (S)	%.			94	79-129	
Dibromofluoromethane (S)	%.			104	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1536207 1536208

Parameter	Units	30265568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.7	17.4	88	87	51-124	1	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.3	16.4	86	82	79-129	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.4	15.6	77	78	57-118	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.3	16.9	81	84	68-117	4	30	
1,1-Dichloroethane	ug/L	ND	20	20	16.1	15.8	80	79	74-119	2	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.8	17.4	89	87	63-126	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	15.7	15.4	79	77	56-129	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.4	14.1	72	70	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	16.2	17.0	81	85	69-124	4	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.7	15.6	78	78	72-119	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	15.8	15.1	79	75	69-116	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	16.9	16.3	85	82	63-118	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.2	15.2	81	76	72-118	6	30	
2-Butanone (MEK)	ug/L	12.1	20	20	27.0	25.0	75	65	72-168	8	30	ML

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1536207 1536208

Parameter	Units	30265568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	20	20	19.2	19.2	73	73	66-143	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.2	17.5	80	72	67-145	9	30	
Acetone	ug/L	182	20	20	197	206	74	121	15-175	5	30	
Acrylonitrile	ug/L	ND	20	20	15.4	15.2	77	76	36-165	1	30	
Benzene	ug/L	ND	20	20	16.9	16.6	84	83	67-121	2	30	
Bromochloromethane	ug/L	ND	20	20	20.9	20.5	105	103	62-128	2	30	
Bromodichloromethane	ug/L	ND	20	20	17.8	17.2	89	86	66-127	3	30	
Bromoform	ug/L	ND	20	20	15.8	15.1	79	76	71-127	4	30	
Bromomethane	ug/L	ND	20	20	14.6	13.8	73	69	10-156	6	30	
Carbon disulfide	ug/L	ND	20	20	17.0	17.4	85	87	45-131	2	30	
Carbon tetrachloride	ug/L	ND	20	20	18.5	17.9	92	90	69-134	3	30	
Chlorobenzene	ug/L	ND	20	20	16.8	17.0	84	85	69-119	2	30	
Chloroethane	ug/L	ND	20	20	20.5	18.6	102	93	60-156	9	30	
Chloroform	ug/L	ND	20	20	15.8	15.2	79	76	69-115	4	30	
Chloromethane	ug/L	ND	20	20	17.5	16.3	87	82	52-145	7	30	
cis-1,2-Dichloroethene	ug/L	14.2	20	20	29.6	29.1	77	74	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	14.7	14.6	74	73	57-125	0	30	
Dibromochloromethane	ug/L	ND	20	20	17.7	17.3	88	87	64-131	2	30	
Dibromomethane	ug/L	ND	20	20	18.3	17.2	92	86	56-133	7	30	
Ethylbenzene	ug/L	ND	20	20	17.0	16.2	85	81	70-127	5	30	
Iodomethane	ug/L	ND	20	20	6.7J	9.7J	34	49	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.5	15.4	78	77	79-135	1	30	ML
Methylene Chloride	ug/L	ND	20	20	16.9	16.3	84	82	54-133	3	30	
Naphthalene	ug/L	ND	20	20	19.9	19.6	100	98	62-131	2	30	
Styrene	ug/L	ND	20	20	16.8	17.2	84	86	65-121	2	30	
Tetrachloroethene	ug/L	ND	20	20	18.0	18.0	90	90	77-125	0	30	
Toluene	ug/L	ND	20	20	16.3	16.0	81	80	77-125	1	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.1	16.6	86	83	70-119	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	13.2	13.4	66	67	52-125	2	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	10.9	10.6	55	53	13-100	3	30	
Trichloroethene	ug/L	ND	20	20	21.0	20.0	101	96	74-128	5	30	
Trichlorofluoromethane	ug/L	ND	20	20	27.6	27.9	138	139	54-164	1	30	
Vinyl acetate	ug/L	ND	20	20	11.1	10.5	55	52	15-173	5	30	
Vinyl chloride	ug/L	3.3	20	20	24.0	23.5	104	101	60-131	2	30	
Xylene (Total)	ug/L	ND	60	60	49.6	50.2	83	84	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						95	92	80-120			
4-Bromofluorobenzene (S)	%.						100	95	79-129			
Dibromofluoromethane (S)	%.						110	106	80-120			
Toluene-d8 (S)	%.						93	93	80-120			

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

QC Batch: 314748 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30265341007, 30265341008, 30265341009, 30265341010, 30265341011

METHOD BLANK: 1536209 Matrix: Water
Associated Lab Samples: 30265341007, 30265341008, 30265341009, 30265341010, 30265341011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	09/28/18 11:37	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	09/28/18 11:37	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	09/28/18 11:37	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	09/28/18 11:37	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	09/28/18 11:37	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	09/28/18 11:37	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	09/28/18 11:37	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	09/28/18 11:37	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	09/28/18 11:37	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	09/28/18 11:37	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	09/28/18 11:37	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	09/28/18 11:37	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	09/28/18 11:37	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	09/28/18 11:37	
2-Hexanone	ug/L	10.0 U	10.0	0.66	09/28/18 11:37	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	09/28/18 11:37	
Acetone	ug/L	10.0 U	10.0	2.8	09/28/18 11:37	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	09/28/18 11:37	
Benzene	ug/L	1.0 U	1.0	0.24	09/28/18 11:37	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	09/28/18 11:37	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	09/28/18 11:37	
Bromoform	ug/L	1.0 U	1.0	0.32	09/28/18 11:37	
Bromomethane	ug/L	1.0 U	1.0	0.49	09/28/18 11:37	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	09/28/18 11:37	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	09/28/18 11:37	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	09/28/18 11:37	
Chloroethane	ug/L	1.0 U	1.0	0.55	09/28/18 11:37	
Chloroform	ug/L	1.0 U	1.0	0.30	09/28/18 11:37	
Chloromethane	ug/L	1.0 U	1.0	0.68	09/28/18 11:37	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	09/28/18 11:37	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	09/28/18 11:37	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	09/28/18 11:37	
Dibromomethane	ug/L	1.0 U	1.0	0.40	09/28/18 11:37	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	09/28/18 11:37	
Iodomethane	ug/L	50.0 U	50.0	0.67	09/28/18 11:37	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	09/28/18 11:37	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	09/28/18 11:37	
Naphthalene	ug/L	2.0 U	2.0	0.82	09/28/18 11:37	
Styrene	ug/L	1.0 U	1.0	0.17	09/28/18 11:37	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	09/28/18 11:37	
Toluene	ug/L	1.0 U	1.0	0.30	09/28/18 11:37	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

METHOD BLANK: 1536209 Matrix: Water
Associated Lab Samples: 30265341007, 30265341008, 30265341009, 30265341010, 30265341011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	09/28/18 11:37	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	09/28/18 11:37	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	09/28/18 11:37	
Trichloroethene	ug/L	1.0 U	1.0	0.39	09/28/18 11:37	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	09/28/18 11:37	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	09/28/18 11:37	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	09/28/18 11:37	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	09/28/18 11:37	
1,2-Dichloroethane-d4 (S)	%.	96	80-120		09/28/18 11:37	
4-Bromofluorobenzene (S)	%.	100	79-129		09/28/18 11:37	
Dibromofluoromethane (S)	%.	106	80-120		09/28/18 11:37	
Toluene-d8 (S)	%.	95	80-120		09/28/18 11:37	

LABORATORY CONTROL SAMPLE: 1536210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.5	103	70-130	
1,1,1-Trichloroethane	ug/L	20	18.5	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.9	100	65-127	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	17.9	89	70-130	
1,1-Dichloroethene	ug/L	20	19.1	95	70-130	
1,2,3-Trichloropropane	ug/L	20	19.5	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	21.2	106	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.9	100	70-130	
1,2-Dichlorobenzene	ug/L	20	19.0	95	70-130	
1,2-Dichloroethane	ug/L	20	18.1	90	70-130	
1,2-Dichloropropane	ug/L	20	18.3	92	70-130	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	20	20.5	102	72-170	
2-Hexanone	ug/L	20	19.1	96	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	66-150	
Acetone	ug/L	20	24.0	120	30-179	
Acrylonitrile	ug/L	20	20.6	103	48-172	
Benzene	ug/L	20	18.6	93	70-130	
Bromochloromethane	ug/L	20	20.6	103	70-130	
Bromodichloromethane	ug/L	20	17.8	89	70-130	
Bromoform	ug/L	20	19.5	98	70-130	
Bromomethane	ug/L	20	17.3	87	47-174	
Carbon disulfide	ug/L	20	19.5	97	43-133	
Carbon tetrachloride	ug/L	20	19.3	96	56-143	
Chlorobenzene	ug/L	20	19.3	96	70-130	
Chloroethane	ug/L	20	17.3	86	67-139	
Chloroform	ug/L	20	17.8	89	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

LABORATORY CONTROL SAMPLE: 1536210

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.6	93	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.3	86	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.5	88	70-130	
Dibromochloromethane	ug/L	20	21.2	106	70-130	
Dibromomethane	ug/L	20	21.1	106	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
Iodomethane	ug/L	20	13.6J	68	10-175	
Methyl-tert-butyl ether	ug/L	20	18.7	94	70-130	
Methylene Chloride	ug/L	20	19.5	97	55-144	
Naphthalene	ug/L	20	20.2	101	70-130	
Styrene	ug/L	20	18.8	94	70-130	
Tetrachloroethene	ug/L	20	19.6	98	70-130	
Toluene	ug/L	20	18.7	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.1	85	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	13.2	66	27-116	
Trichloroethene	ug/L	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	20	26.6	133	60-148	
Vinyl acetate	ug/L	20	19.1	95	30-181	
Vinyl chloride	ug/L	20	20.8	104	70-130	
Xylene (Total)	ug/L	60	56.7	95	70-130	
1,2-Dichloroethane-d4 (S)	%.			92	80-120	
4-Bromofluorobenzene (S)	%.			102	79-129	
Dibromofluoromethane (S)	%.			104	80-120	
Toluene-d8 (S)	%.			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1536211 1536212

Parameter	Units	30265568014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	18.8	17.7	94	89	51-124	6	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.4	16.5	87	82	79-129	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.3	15.6	77	78	57-118	2	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.8	15.9	84	79	68-117	6	30	
1,1-Dichloroethane	ug/L	ND	20	20	16.9	16.2	84	81	74-119	4	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.9	17.9	89	89	63-126	0	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	15.4	15.8	77	79	56-129	2	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.8	15.5	79	78	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	16.6	16.1	83	81	69-124	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.8	16.8	79	84	72-119	6	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.2	15.2	81	76	69-116	6	30	
1,2-Dichloropropane	ug/L	ND	20	20	15.8	16.2	79	81	63-118	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.0	15.9	75	79	72-118	6	30	
2-Butanone (MEK)	ug/L	127	20	20	147	132	99	25	72-168	11	30	ML

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QUALITY CONTROL DATA

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1536211 1536212

Parameter	Units	30265568014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	44.7	20	20	63.1	58.4	92	68	66-143	8	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.8	19.4	84	82	67-145	2	30	
Acetone	ug/L	160	20	20	173	169	66	45	15-175	2	30	
Acrylonitrile	ug/L	ND	20	20	14.7	14.2	73	71	36-165	3	30	
Benzene	ug/L	ND	20	20	17.3	16.7	86	83	67-121	3	30	
Bromochloromethane	ug/L	ND	20	20	18.4	17.7	92	89	62-128	4	30	
Bromodichloromethane	ug/L	ND	20	20	18.1	17.6	90	88	66-127	3	30	
Bromoform	ug/L	ND	20	20	15.4	16.5	77	82	71-127	7	30	
Bromomethane	ug/L	ND	20	20	7.4	9.4	37	47	10-156	24	30	
Carbon disulfide	ug/L	ND	20	20	17.2	16.9	86	84	45-131	2	30	
Carbon tetrachloride	ug/L	ND	20	20	19.2	18.6	96	93	69-134	3	30	
Chlorobenzene	ug/L	ND	20	20	17.5	16.7	88	84	69-119	5	30	
Chloroethane	ug/L	ND	20	20	16.0	19.2	80	96	60-156	19	30	
Chloroform	ug/L	ND	20	20	16.3	15.7	82	79	69-115	4	30	
Chloromethane	ug/L	ND	20	20	15.2	14.9	76	75	52-145	2	30	
cis-1,2-Dichloroethene	ug/L	4.1	20	20	19.7	19.2	78	75	65-120	3	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.2	15.3	76	76	57-125	1	30	
Dibromochloromethane	ug/L	ND	20	20	17.6	17.5	88	87	64-131	1	30	
Dibromomethane	ug/L	ND	20	20	18.0	17.0	90	85	56-133	6	30	
Ethylbenzene	ug/L	ND	20	20	16.9	16.6	85	83	70-127	2	30	
Iodomethane	ug/L	ND	20	20	4.7J	7.8J	24	39	10-152		30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.8	15.3	79	77	79-135	3	30	ML
Methylene Chloride	ug/L	ND	20	20	15.6	15.6	78	78	54-133	0	30	
Naphthalene	ug/L	ND	20	20	15.1	15.3	76	77	62-131	1	30	
Styrene	ug/L	ND	20	20	16.7	16.3	84	81	65-121	3	30	
Tetrachloroethene	ug/L	ND	20	20	18.9	17.8	94	89	77-125	6	30	
Toluene	ug/L	ND	20	20	16.9	16.4	84	82	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	2.1	20	20	17.8	17.6	78	78	70-119	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.5	14.5	73	73	52-125	0	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	11.1	11.5	56	57	13-100	3	30	
Trichloroethene	ug/L	1.1	20	20	19.8	21.9	94	104	74-128	10	30	
Trichlorofluoromethane	ug/L	ND	20	20	28.8	29.9	144	150	54-164	4	30	
Vinyl acetate	ug/L	ND	20	20	14.9	14.2	75	71	15-173	5	30	
Vinyl chloride	ug/L	ND	20	20	19.4	18.3	95	89	60-131	6	30	
Xylene (Total)	ug/L	ND	60	60	50.8	50.4	85	84	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						91	94	80-120			
4-Bromofluorobenzene (S)	%.						97	103	79-129			
Dibromofluoromethane (S)	%.						102	104	80-120			
Toluene-d8 (S)	%.						97	95	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

C8	Result may be biased high due to carryover from previously analyzed sample.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA 3rd Quarter 2018
Pace Project No.: 30265341

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30265341001	**Trip Blank**	EPA 8260B	314747		
30265341002	**CO61-PZM007**	EPA 8260B	314747		
30265341003	**CO63-PZM007**	EPA 8260B	314747		
30265341004	**CO64-PZM006**	EPA 8260B	314747		
30265341005	**CO66-PZM005**	EPA 8260B	314747		
30265341006	**CO67-PZM006**	EPA 8260B	314747		
30265341007	**CO68-PZM005**	EPA 8260B	314748		
30265341008	**CO69-PZM005**	EPA 8260B	314748		
30265341009	**CO70-PZM005**	EPA 8260B	314748		
30265341010	**CO71-PZM006**	EPA 8260B	314748		
30265341011	**CO72-PZM005**	EPA 8260B	314748		

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CHAIN-OF-CU

The Chain-of-Custody is a l

WO# : 30265341

30265341

Page: 1 of 1

Section A Required Client Information:

Company:	EnviroAnalytics Group
Address:	1430 Sparrows Point Blvd
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5 day

Section B Required Project Information:

Report To:	James Calenda
Copy To:	
PO Number:	
Project Name:	COA 3rd Quarter 2018
Project Number:	180227M

Sec
Invoi

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	DI Water	Y/N	Analysis Test: VOC/8260B	SVOC 8270D	DRO/8015B	GRO/8015B	METALS/6010C	Mercury/7471A or 7470A	Hexavalent Chromium/7196A	Total Cyanide/9012A	PCB/8082 (soil)	Naphthalene 8260	Oil and Grease/1664A (aq	Oil and Grease/9071B (soil)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	SL				9/13	1158		2				X						X											001
2	CO41-PZM007		G				0857		3				X						X											002
3	CO43-PZM007						0935		3				X						X											003
4	CO64-PZM006						0956		3				X						X											004
5	CO66-PZM005						1030		3				X						X											005
6	CO67-PZM006						1100		3				X						X											006
7	CO68-PZM005						1124		3				X						X											007
8	CO69-PZM005						1150		3				X						X											008
9	CO70-PZM005						1213		3				X						X											009
10	CO71-PZM006	V	V				1243		3				X						X											010
11	CO72-PZM005						1300		3				X						X											011
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Data Package Required? (Y/N):		9/17/18	1530		9/17/18	1605
Data Validation Required? (Y/N):		9/17/18	2010		9-17-18	2020
If data package is required, attach data package checklist.		9/17/18	2355		9/17/18	2355

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.6	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leandra M. Glumac

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 09/17/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: enviroanalytics Project # 30265341

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label PM

LIMS Login BLN

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.6 °C Correction Factor: +0.0 °C Final Temp: 2.6 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# N/A — Date and Initials of person examining contents: BMH 9/18/18
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10. BMH 9/18/18
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: VOA, coliform, TOC, O&G, Phenolics			✓	16. Initial when completed / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18. pace provided
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr				Initial when completed: BMH Date: 9/18/18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 04, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30266050

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on September 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Greensburg, PA 15601
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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30266050

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30266050001	**Trip Blank**	Water	09/24/18 00:01	09/24/18 23:45
30266050002	**CO43-PZM048**	Water	09/24/18 11:00	09/24/18 23:45
30266050003	**CO44-PZM048**	Water	09/24/18 11:20	09/24/18 23:45
30266050004	**CO45-PZM047**	Water	09/24/18 11:50	09/24/18 23:45
30266050005	**CO47-PZM046**	Water	09/24/18 12:15	09/24/18 23:45
30266050006	**CO48-PZM044**	Water	09/24/18 12:45	09/24/18 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30266050

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30266050001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30266050002	**CO43-PZM048**	EPA 8260B	MAK	53	PASI-PA
30266050003	**CO44-PZM048**	EPA 8260B	MAK	53	PASI-PA
30266050004	**CO45-PZM047**	EPA 8260B	MAK	53	PASI-PA
30266050005	**CO47-PZM046**	EPA 8260B	MAK	53	PASI-PA
30266050006	**CO48-PZM044**	EPA 8260B	MAK	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: Trip Blank **Lab ID: 30266050001** Collected: 09/24/18 00:01 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		10/03/18 11:57	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 11:57	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 11:57	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 11:57	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		10/03/18 11:57	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 11:57	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		10/03/18 11:57	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		10/03/18 11:57	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 11:57	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		10/03/18 11:57	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 11:57	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		10/03/18 11:57	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 11:57	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		10/03/18 11:57	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		10/03/18 11:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		10/03/18 11:57	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		10/03/18 11:57	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		10/03/18 11:57	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		10/03/18 11:57	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 11:57	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		10/03/18 11:57	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 11:57	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		10/03/18 11:57	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 11:57	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 11:57	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		10/03/18 11:57	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/03/18 11:57	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		10/03/18 11:57	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		10/03/18 11:57	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		10/03/18 11:57	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		10/03/18 11:57	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 11:57	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		10/03/18 11:57	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		10/03/18 11:57	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		10/03/18 11:57	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/03/18 11:57	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		10/03/18 11:57	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 11:57	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		10/03/18 11:57	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/03/18 11:57	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 11:57	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		10/03/18 11:57	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 11:57	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		10/03/18 11:57	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		10/03/18 11:57	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 11:57	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: Trip Blank **Lab ID: 30266050001** Collected: 09/24/18 00:01 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		10/03/18 11:57	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		10/03/18 11:57	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		10/03/18 11:57	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	79-129		1		10/03/18 11:57	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		10/03/18 11:57	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		10/03/18 11:57	2037-26-5	
Dibromofluoromethane (S)	108	%.	80-120		1		10/03/18 11:57	1868-53-7	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO43-PZM048 **Lab ID: 30266050002** Collected: 09/24/18 11:00 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		10/03/18 17:16	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 17:16	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 17:16	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 17:16	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		10/03/18 17:16	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 17:16	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		10/03/18 17:16	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		10/03/18 17:16	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 17:16	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		10/03/18 17:16	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 17:16	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		10/03/18 17:16	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 17:16	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		10/03/18 17:16	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		10/03/18 17:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		10/03/18 17:16	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		10/03/18 17:16	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		10/03/18 17:16	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		10/03/18 17:16	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 17:16	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		10/03/18 17:16	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 17:16	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		10/03/18 17:16	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 17:16	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 17:16	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		10/03/18 17:16	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/03/18 17:16	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		10/03/18 17:16	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		10/03/18 17:16	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		10/03/18 17:16	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		10/03/18 17:16	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 17:16	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		10/03/18 17:16	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		10/03/18 17:16	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		10/03/18 17:16	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/03/18 17:16	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		10/03/18 17:16	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 17:16	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		10/03/18 17:16	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/03/18 17:16	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 17:16	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		10/03/18 17:16	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 17:16	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		10/03/18 17:16	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		10/03/18 17:16	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 17:16	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO43-PZM048 **Lab ID: 30266050002** Collected: 09/24/18 11:00 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		10/03/18 17:16	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		10/03/18 17:16	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		10/03/18 17:16	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	79-129		1		10/03/18 17:16	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		10/03/18 17:16	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		10/03/18 17:16	2037-26-5	
Dibromofluoromethane (S)	109	%.	80-120		1		10/03/18 17:16	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO44-PZM048 **Lab ID: 30266050003** Collected: 09/24/18 11:20 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		10/03/18 17:41	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 17:41	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 17:41	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 17:41	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		10/03/18 17:41	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 17:41	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		10/03/18 17:41	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		10/03/18 17:41	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 17:41	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		10/03/18 17:41	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 17:41	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		10/03/18 17:41	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 17:41	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		10/03/18 17:41	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		10/03/18 17:41	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		10/03/18 17:41	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		10/03/18 17:41	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		10/03/18 17:41	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		10/03/18 17:41	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 17:41	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		10/03/18 17:41	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 17:41	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		10/03/18 17:41	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 17:41	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 17:41	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		10/03/18 17:41	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/03/18 17:41	75-00-3	
Chloroform	**0.31J**	ug/L	1.0	0.30	1		10/03/18 17:41	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		10/03/18 17:41	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		10/03/18 17:41	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		10/03/18 17:41	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 17:41	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		10/03/18 17:41	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		10/03/18 17:41	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		10/03/18 17:41	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/03/18 17:41	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		10/03/18 17:41	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 17:41	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		10/03/18 17:41	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/03/18 17:41	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 17:41	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		10/03/18 17:41	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 17:41	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		10/03/18 17:41	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		10/03/18 17:41	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 17:41	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO44-PZM048 **Lab ID: 30266050003** Collected: 09/24/18 11:20 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		10/03/18 17:41	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		10/03/18 17:41	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		10/03/18 17:41	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		1		10/03/18 17:41	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		1		10/03/18 17:41	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		10/03/18 17:41	2037-26-5	
Dibromofluoromethane (S)	108	%.	80-120		1		10/03/18 17:41	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO45-PZM047 **Lab ID: 30266050004** Collected: 09/24/18 11:50 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		10/03/18 18:07	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 18:07	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 18:07	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 18:07	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		10/03/18 18:07	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 18:07	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		10/03/18 18:07	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		10/03/18 18:07	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 18:07	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		10/03/18 18:07	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 18:07	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		10/03/18 18:07	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		10/03/18 18:07	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		10/03/18 18:07	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		10/03/18 18:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		10/03/18 18:07	108-10-1	
Acetone	**3.3J**	ug/L	10.0	2.8	1		10/03/18 18:07	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		10/03/18 18:07	107-13-1	
Benzene	**0.76J**	ug/L	1.0	0.24	1		10/03/18 18:07	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 18:07	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		10/03/18 18:07	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 18:07	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		10/03/18 18:07	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 18:07	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		10/03/18 18:07	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		10/03/18 18:07	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		10/03/18 18:07	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		10/03/18 18:07	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		10/03/18 18:07	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		10/03/18 18:07	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		10/03/18 18:07	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 18:07	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		10/03/18 18:07	74-88-4	CL
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		10/03/18 18:07	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		10/03/18 18:07	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		10/03/18 18:07	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		10/03/18 18:07	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		10/03/18 18:07	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		10/03/18 18:07	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		10/03/18 18:07	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		10/03/18 18:07	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		10/03/18 18:07	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		10/03/18 18:07	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		10/03/18 18:07	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		10/03/18 18:07	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		10/03/18 18:07	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO45-PZM047 **Lab ID: 30266050004** Collected: 09/24/18 11:50 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		10/03/18 18:07	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		10/03/18 18:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		10/03/18 18:07	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		1		10/03/18 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	80-120		1		10/03/18 18:07	17060-07-0	
Toluene-d8 (S)	92	%.	80-120		1		10/03/18 18:07	2037-26-5	
Dibromofluoromethane (S)	107	%.	80-120		1		10/03/18 18:07	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO47-PZM046 **Lab ID: 30266050005** Collected: 09/24/18 12:15 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		10/03/18 19:23	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 19:23	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/03/18 19:23	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 19:23	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		10/03/18 19:23	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 19:23	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		10/03/18 19:23	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		10/03/18 19:23	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 19:23	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		10/03/18 19:23	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/03/18 19:23	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 19:23	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 19:23	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		10/03/18 19:23	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		10/03/18 19:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		10/03/18 19:23	108-10-1	
Acetone	**30.2J**	ug/L	50.0	14.2	5		10/03/18 19:23	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		10/03/18 19:23	107-13-1	
Benzene	**1390**	ug/L	5.0	1.2	5		10/03/18 19:23	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/03/18 19:23	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 19:23	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 19:23	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		10/03/18 19:23	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 19:23	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		10/03/18 19:23	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		10/03/18 19:23	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		10/03/18 19:23	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		10/03/18 19:23	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		10/03/18 19:23	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 19:23	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		10/03/18 19:23	74-95-3	
Ethylbenzene	**27.3**	ug/L	5.0	1.6	5		10/03/18 19:23	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		10/03/18 19:23	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/03/18 19:23	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		10/03/18 19:23	75-09-2	
Naphthalene	**98.2**	ug/L	10.0	4.1	5		10/03/18 19:23	91-20-3	
Styrene	**12.7**	ug/L	5.0	0.85	5		10/03/18 19:23	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 19:23	127-18-4	
Toluene	**389**	ug/L	5.0	1.5	5		10/03/18 19:23	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/03/18 19:23	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 19:23	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		10/03/18 19:23	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 19:23	75-01-4	
Xylene (Total)	**260**	ug/L	15.0	3.9	5		10/03/18 19:23	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		10/03/18 19:23	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		10/03/18 19:23	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO47-PZM046 **Lab ID: 30266050005** Collected: 09/24/18 12:15 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		10/03/18 19:23	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		10/03/18 19:23	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		10/03/18 19:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		5		10/03/18 19:23	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		10/03/18 19:23	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		5		10/03/18 19:23	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		5		10/03/18 19:23	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO48-PZM044 **Lab ID: 30266050006** Collected: 09/24/18 12:45 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		10/03/18 18:32	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 18:32	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		10/03/18 18:32	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 18:32	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		10/03/18 18:32	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 18:32	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		10/03/18 18:32	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		10/03/18 18:32	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 18:32	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		10/03/18 18:32	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		10/03/18 18:32	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 18:32	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		10/03/18 18:32	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		10/03/18 18:32	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		10/03/18 18:32	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		10/03/18 18:32	108-10-1	
Acetone	**17.9J**	ug/L	50.0	14.2	5		10/03/18 18:32	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		10/03/18 18:32	107-13-1	
Benzene	**4550**	ug/L	500	120	500		10/03/18 18:58	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		10/03/18 18:32	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 18:32	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 18:32	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		10/03/18 18:32	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 18:32	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		10/03/18 18:32	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		10/03/18 18:32	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		10/03/18 18:32	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		10/03/18 18:32	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		10/03/18 18:32	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 18:32	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		10/03/18 18:32	74-95-3	
Ethylbenzene	**102**	ug/L	5.0	1.6	5		10/03/18 18:32	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		10/03/18 18:32	74-88-4	CL
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		10/03/18 18:32	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		10/03/18 18:32	75-09-2	
Naphthalene	**515**	ug/L	10.0	4.1	5		10/03/18 18:32	91-20-3	
Styrene	**114**	ug/L	5.0	0.85	5		10/03/18 18:32	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 18:32	127-18-4	
Toluene	**3120**	ug/L	500	150	500		10/03/18 18:58	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		10/03/18 18:32	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		10/03/18 18:32	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		10/03/18 18:32	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		10/03/18 18:32	75-01-4	
Xylene (Total)	**872**	ug/L	15.0	3.9	5		10/03/18 18:32	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		10/03/18 18:32	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		10/03/18 18:32	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30266050

Sample: CO48-PZM044 **Lab ID: 30266050006** Collected: 09/24/18 12:45 Received: 09/24/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		10/03/18 18:32	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		10/03/18 18:32	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		10/03/18 18:32	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		5		10/03/18 18:32	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		10/03/18 18:32	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		10/03/18 18:32	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		5		10/03/18 18:32	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

QC Batch: 315256 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30266050001

METHOD BLANK: 1538719 Matrix: Water
Associated Lab Samples: 30266050001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	10/03/18 11:06	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	10/03/18 11:06	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	10/03/18 11:06	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	10/03/18 11:06	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	10/03/18 11:06	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	10/03/18 11:06	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	10/03/18 11:06	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	10/03/18 11:06	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	10/03/18 11:06	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	10/03/18 11:06	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	10/03/18 11:06	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	10/03/18 11:06	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	10/03/18 11:06	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	10/03/18 11:06	
2-Hexanone	ug/L	10.0 U	10.0	0.66	10/03/18 11:06	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	10/03/18 11:06	
Acetone	ug/L	10.0 U	10.0	2.8	10/03/18 11:06	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	10/03/18 11:06	
Benzene	ug/L	1.0 U	1.0	0.24	10/03/18 11:06	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	10/03/18 11:06	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	10/03/18 11:06	
Bromoform	ug/L	1.0 U	1.0	0.32	10/03/18 11:06	
Bromomethane	ug/L	1.0 U	1.0	0.49	10/03/18 11:06	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/03/18 11:06	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	10/03/18 11:06	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	10/03/18 11:06	
Chloroethane	ug/L	1.0 U	1.0	0.55	10/03/18 11:06	
Chloroform	ug/L	1.0 U	1.0	0.30	10/03/18 11:06	
Chloromethane	ug/L	1.0 U	1.0	0.68	10/03/18 11:06	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	10/03/18 11:06	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	10/03/18 11:06	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	10/03/18 11:06	
Dibromomethane	ug/L	1.0 U	1.0	0.40	10/03/18 11:06	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	10/03/18 11:06	
Iodomethane	ug/L	50.0 U	50.0	0.67	10/03/18 11:06	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	10/03/18 11:06	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	10/03/18 11:06	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/03/18 11:06	
Styrene	ug/L	1.0 U	1.0	0.17	10/03/18 11:06	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	10/03/18 11:06	
Toluene	ug/L	1.0 U	1.0	0.30	10/03/18 11:06	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

METHOD BLANK: 1538719 Matrix: Water
Associated Lab Samples: 30266050001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	10/03/18 11:06	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	10/03/18 11:06	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	10/03/18 11:06	
Trichloroethene	ug/L	1.0 U	1.0	0.39	10/03/18 11:06	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	10/03/18 11:06	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	10/03/18 11:06	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	10/03/18 11:06	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	10/03/18 11:06	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		10/03/18 11:06	
4-Bromofluorobenzene (S)	%.	94	79-129		10/03/18 11:06	
Dibromofluoromethane (S)	%.	111	80-120		10/03/18 11:06	
Toluene-d8 (S)	%.	91	80-120		10/03/18 11:06	

LABORATORY CONTROL SAMPLE: 1538720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	98	70-130	
1,1,1-Trichloroethane	ug/L	20	18.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	65-127	
1,1,2-Trichloroethane	ug/L	20	19.3	96	70-130	
1,1-Dichloroethane	ug/L	20	16.9	85	70-130	
1,1-Dichloroethene	ug/L	20	18.7	94	70-130	
1,2,3-Trichloropropane	ug/L	20	18.4	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.4	87	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	101	70-130	
1,2-Dichlorobenzene	ug/L	20	17.4	87	70-130	
1,2-Dichloroethane	ug/L	20	18.2	91	70-130	
1,2-Dichloropropane	ug/L	20	18.7	94	70-130	
1,4-Dichlorobenzene	ug/L	20	17.8	89	70-130	
2-Butanone (MEK)	ug/L	20	19.5	97	72-170	
2-Hexanone	ug/L	20	19.5	98	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.3	96	66-150	
Acetone	ug/L	20	20.5	103	30-179	
Acrylonitrile	ug/L	20	19.0	95	48-172	
Benzene	ug/L	20	18.1	91	70-130	
Bromochloromethane	ug/L	20	21.5	108	70-130	
Bromodichloromethane	ug/L	20	19.2	96	70-130	
Bromoform	ug/L	20	20.1	100	70-130	
Bromomethane	ug/L	20	20.4	102	47-174	
Carbon disulfide	ug/L	20	19.0	95	43-133	
Carbon tetrachloride	ug/L	20	19.5	97	56-143	
Chlorobenzene	ug/L	20	19.3	97	70-130	
Chloroethane	ug/L	20	20.0	100	67-139	
Chloroform	ug/L	20	17.7	88	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

LABORATORY CONTROL SAMPLE: 1538720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	21.4	107	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.1	86	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.1	86	70-130	
Dibromochloromethane	ug/L	20	20.8	104	70-130	
Dibromomethane	ug/L	20	18.3	91	70-130	
Ethylbenzene	ug/L	20	17.6	88	70-130	
Iodomethane	ug/L	20	9.1J	45	10-175	CL
Methyl-tert-butyl ether	ug/L	20	17.2	86	70-130	
Methylene Chloride	ug/L	20	19.8	99	55-144	
Naphthalene	ug/L	20	18.6	93	70-130	
Styrene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	19.2	96	70-130	
Toluene	ug/L	20	17.7	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.0	85	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	13.1	66	27-116	
Trichloroethene	ug/L	20	19.8	99	70-130	
Trichlorofluoromethane	ug/L	20	26.4	132	60-148	
Vinyl acetate	ug/L	20	18.2	91	30-181	
Vinyl chloride	ug/L	20	22.4	112	70-130	
Xylene (Total)	ug/L	60	56.0	93	70-130	
1,2-Dichloroethane-d4 (S)	%.			91	80-120	
4-Bromofluorobenzene (S)	%.			91	79-129	
Dibromofluoromethane (S)	%.			102	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1538984 1538985

Parameter	Units	30266434011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.4	17.6	87	88	51-124	1	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.8	16.3	84	81	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.5	15.8	77	79	57-118	2	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.0	16.9	80	84	68-117	5	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.5	16.2	82	81	74-119	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.3	17.3	92	86	63-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.6	16.6	83	83	56-129	0	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	12.3	14.1	62	70	53-120	13	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.4	17.8	87	89	69-124	2	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	15.4	14.9	77	74	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.6	16.2	83	81	69-116	2	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.8	16.3	89	82	63-118	9	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.6	15.8	78	79	72-118	2	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	16.4	17.9	82	90	72-168	9	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1538984 1538985

Parameter	Units	30266434011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	17.7	17.5	89	87	66-143	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	17.8	17.2	89	86	67-145	4	30	
Acetone	ug/L	10.0 U	20	20	18.7	17.5	81	75	15-175	7	30	
Acrylonitrile	ug/L	4.0 U	20	20	16.9	15.6	84	78	36-165	8	30	
Benzene	ug/L	1.0 U	20	20	18.6	16.9	93	85	67-121	10	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.9	18.6	100	93	62-128	7	30	
Bromodichloromethane	ug/L	1.0 U	20	20	18.1	17.1	91	86	66-127	6	30	
Bromoform	ug/L	1.0 U	20	20	15.3	15.8	77	79	71-127	3	30	
Bromomethane	ug/L	1.0 U	20	20	14.7	13.0	73	65	10-156	12	30	
Carbon disulfide	ug/L	1.0 U	20	20	17.4	16.7	87	83	45-131	4	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.9	18.0	95	90	69-134	5	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.5	17.3	87	86	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	20.2	18.7	101	94	60-156	8	30	
Chloroform	ug/L	1.0 U	20	20	16.6	15.4	83	77	69-115	7	30	
Chloromethane	ug/L	1.0 U	20	20	18.6	18.2	93	91	52-145	2	30	
cis-1,2-Dichloroethene	ug/L	0.73J	20	20	16.0	15.0	77	72	65-120	6	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.1	15.3	75	77	57-125	2	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.6	18.0	88	90	64-131	3	30	
Dibromomethane	ug/L	1.0 U	20	20	17.8	16.2	89	81	56-133	9	30	
Ethylbenzene	ug/L	1.0 U	20	20	17.2	17.2	86	86	70-127	0	30	
Iodomethane	ug/L	50.0 U	20	20	8.8J	10.6J	44	53	10-152		30	CL
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.6	15.8	78	79	79-135	1	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	18.5	18.4	92	92	54-133	0	30	
Naphthalene	ug/L	2.0 U	20	20	17.0	15.7	85	79	62-131	8	30	
Styrene	ug/L	1.0 U	20	20	14.7	14.9	74	74	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	17.6	18.0	88	90	77-125	2	30	
Toluene	ug/L	1.0 U	20	20	17.5	16.7	88	84	77-125	5	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.2	16.5	86	82	70-119	4	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.5	14.9	72	75	52-125	3	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	8.8	9.0	44	45	13-100	2	30	
Trichloroethene	ug/L	1.0 U	20	20	18.5	18.2	93	91	74-128	2	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	29.3	27.0	147	135	54-164	8	30	
Vinyl acetate	ug/L	10.0 U	20	20	14.2	13.2	71	66	15-173	7	30	
Vinyl chloride	ug/L	1.0 U	20	20	20.6	20.1	103	100	60-131	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	51.9	51.9	87	87	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						97	96	80-120			
4-Bromofluorobenzene (S)	%.						92	94	79-129			
Dibromofluoromethane (S)	%.						105	104	80-120			
Toluene-d8 (S)	%.						93	98	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

QC Batch: 315257 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30266050002, 30266050003, 30266050004, 30266050005, 30266050006

METHOD BLANK: 1538721 Matrix: Water
Associated Lab Samples: 30266050002, 30266050003, 30266050004, 30266050005, 30266050006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	10/03/18 11:19	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	10/03/18 11:19	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	10/03/18 11:19	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	10/03/18 11:19	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	10/03/18 11:19	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	10/03/18 11:19	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	10/03/18 11:19	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	10/03/18 11:19	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	10/03/18 11:19	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	10/03/18 11:19	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	10/03/18 11:19	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	10/03/18 11:19	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	10/03/18 11:19	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	10/03/18 11:19	
2-Hexanone	ug/L	10.0 U	10.0	0.66	10/03/18 11:19	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	10/03/18 11:19	
Acetone	ug/L	10.0 U	10.0	2.8	10/03/18 11:19	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	10/03/18 11:19	
Benzene	ug/L	1.0 U	1.0	0.24	10/03/18 11:19	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	10/03/18 11:19	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	10/03/18 11:19	
Bromoform	ug/L	1.0 U	1.0	0.32	10/03/18 11:19	
Bromomethane	ug/L	1.0 U	1.0	0.49	10/03/18 11:19	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	10/03/18 11:19	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	10/03/18 11:19	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	10/03/18 11:19	
Chloroethane	ug/L	1.0 U	1.0	0.55	10/03/18 11:19	
Chloroform	ug/L	1.0 U	1.0	0.30	10/03/18 11:19	
Chloromethane	ug/L	1.0 U	1.0	0.68	10/03/18 11:19	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	10/03/18 11:19	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	10/03/18 11:19	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	10/03/18 11:19	
Dibromomethane	ug/L	1.0 U	1.0	0.40	10/03/18 11:19	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	10/03/18 11:19	
Iodomethane	ug/L	50.0 U	50.0	0.67	10/03/18 11:19	CL
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	10/03/18 11:19	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	10/03/18 11:19	
Naphthalene	ug/L	2.0 U	2.0	0.82	10/03/18 11:19	
Styrene	ug/L	1.0 U	1.0	0.17	10/03/18 11:19	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	10/03/18 11:19	
Toluene	ug/L	1.0 U	1.0	0.30	10/03/18 11:19	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

METHOD BLANK: 1538721 Matrix: Water
Associated Lab Samples: 30266050002, 30266050003, 30266050004, 30266050005, 30266050006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	10/03/18 11:19	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	10/03/18 11:19	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	10/03/18 11:19	
Trichloroethene	ug/L	1.0 U	1.0	0.39	10/03/18 11:19	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	10/03/18 11:19	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	10/03/18 11:19	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	10/03/18 11:19	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	10/03/18 11:19	
1,2-Dichloroethane-d4 (S)	%.	106	80-120		10/03/18 11:19	
4-Bromofluorobenzene (S)	%.	103	79-129		10/03/18 11:19	
Dibromofluoromethane (S)	%.	108	80-120		10/03/18 11:19	
Toluene-d8 (S)	%.	92	80-120		10/03/18 11:19	

LABORATORY CONTROL SAMPLE: 1538722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,1-Trichloroethane	ug/L	20	17.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	87	65-127	
1,1,2-Trichloroethane	ug/L	20	18.3	92	70-130	
1,1-Dichloroethane	ug/L	20	16.9	84	70-130	
1,1-Dichloroethene	ug/L	20	17.7	89	70-130	
1,2,3-Trichloropropane	ug/L	20	16.5	83	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.4	87	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.8	94	70-130	
1,2-Dichlorobenzene	ug/L	20	16.5	83	70-130	
1,2-Dichloroethane	ug/L	20	17.6	88	70-130	
1,2-Dichloropropane	ug/L	20	17.5	88	70-130	
1,4-Dichlorobenzene	ug/L	20	16.2	81	70-130	
2-Butanone (MEK)	ug/L	20	19.1	95	72-170	
2-Hexanone	ug/L	20	18.5	92	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	66-150	
Acetone	ug/L	20	22.0	110	30-179	
Acrylonitrile	ug/L	20	17.9	90	48-172	
Benzene	ug/L	20	17.7	88	70-130	
Bromochloromethane	ug/L	20	20.1	100	70-130	
Bromodichloromethane	ug/L	20	18.1	90	70-130	
Bromoform	ug/L	20	18.7	94	70-130	
Bromomethane	ug/L	20	17.5	88	47-174	
Carbon disulfide	ug/L	20	17.9	89	43-133	
Carbon tetrachloride	ug/L	20	18.3	91	56-143	
Chlorobenzene	ug/L	20	18.4	92	70-130	
Chloroethane	ug/L	20	16.4	82	67-139	
Chloroform	ug/L	20	17.0	85	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

LABORATORY CONTROL SAMPLE: 1538722

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.4	102	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	70-130	
Dibromochloromethane	ug/L	20	19.4	97	70-130	
Dibromomethane	ug/L	20	18.3	92	70-130	
Ethylbenzene	ug/L	20	17.3	87	70-130	
Iodomethane	ug/L	20	8.9J	44	10-175	CL
Methyl-tert-butyl ether	ug/L	20	16.7	84	70-130	
Methylene Chloride	ug/L	20	20.3	101	55-144	
Naphthalene	ug/L	20	16.8	84	70-130	
Styrene	ug/L	20	17.6	88	70-130	
Tetrachloroethene	ug/L	20	18.4	92	70-130	
Toluene	ug/L	20	17.2	86	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.9	79	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.2	81	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.4	72	27-116	
Trichloroethene	ug/L	20	18.9	95	70-130	
Trichlorofluoromethane	ug/L	20	26.9	135	60-148	
Vinyl acetate	ug/L	20	19.3	96	30-181	
Vinyl chloride	ug/L	20	19.5	98	70-130	
Xylene (Total)	ug/L	60	53.8	90	70-130	
1,2-Dichloroethane-d4 (S)	%.			97	80-120	
4-Bromofluorobenzene (S)	%.			94	79-129	
Dibromofluoromethane (S)	%.			104	80-120	
Toluene-d8 (S)	%.			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1538723 1538724

Parameter	Units	30266434003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.2	17.2	86	86	51-124	0	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.9	17.3	85	87	79-129	2	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.0	17.0	85	85	57-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	17.1	17.5	85	88	68-117	3	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.5	16.5	83	83	74-119	0	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.5	18.0	87	90	63-126	3	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.2	15.3	81	77	56-129	5	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.8	15.4	79	77	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	17.1	17.0	85	85	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.3	16.3	81	82	72-119	0	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.2	16.0	81	80	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.2	17.0	86	85	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	15.0	15.2	75	76	72-118	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	17.1	17.7	86	89	72-168	4	30	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30266050

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1538723 1538724

Parameter	Units	30266434003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	16.6	16.6	83	83	66-143	0	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.4	18.0	92	90	67-145	2	30	
Acetone	ug/L	3.2J	20	20	22.3	18.9	95	79	15-175	16	30	
Acrylonitrile	ug/L	4.0 U	20	20	15.9	15.8	79	79	36-165	1	30	
Benzene	ug/L	1.0 U	20	20	17.5	17.6	87	88	67-121	1	30	
Bromochloromethane	ug/L	1.0 U	20	20	18.6	17.6	93	88	62-128	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	17.8	18.6	89	93	66-127	4	30	
Bromoform	ug/L	1.0 U	20	20	15.1	15.0	76	75	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	9.8	11.4	49	57	10-156	15	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.6	16.3	83	82	45-131	2	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	18.8	18.5	94	92	69-134	2	30	
Chlorobenzene	ug/L	1.0 U	20	20	17.2	17.3	86	87	69-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	16.6	15.7	83	79	60-156	5	30	
Chloroform	ug/L	1.0 U	20	20	15.9	16.3	79	82	69-115	3	30	
Chloromethane	ug/L	1.0 U	20	20	17.7	17.0	89	85	52-145	4	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.8	16.4	79	82	65-120	4	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.4	14.9	77	75	57-125	3	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.6	17.4	88	87	64-131	1	30	
Dibromomethane	ug/L	1.0 U	20	20	16.4	16.3	82	82	56-133	0	30	
Ethylbenzene	ug/L	1.0 U	20	20	17.3	17.0	87	85	70-127	2	30	
Iodomethane	ug/L	50.0 U	20	20	6.0J	10.8J	30	54	10-152		30	CL
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.1	15.6	75	78	79-135	4	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	17.6	17.4	88	87	54-133	2	30	
Naphthalene	ug/L	2.0 U	20	20	14.7	14.7	74	73	62-131	0	30	
Styrene	ug/L	1.0 U	20	20	16.4	16.7	82	83	65-121	2	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.0	17.1	90	85	77-125	5	30	
Toluene	ug/L	1.0 U	20	20	16.7	16.7	83	84	77-125	0	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.9	15.6	80	78	70-119	2	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	13.8	14.0	69	70	52-125	2	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	10.6	9.9	53	49	13-100	7	30	
Trichloroethene	ug/L	1.0 U	20	20	18.4	17.9	92	89	74-128	3	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	30.5	30.0	152	150	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	15.0	14.8	75	74	15-173	1	30	
Vinyl chloride	ug/L	1.0 U	20	20	19.4	18.4	97	92	60-131	5	30	
Xylene (Total)	ug/L	3.0 U	60	60	50.6	50.8	84	85	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						98	99	80-120			
4-Bromofluorobenzene (S)	%.						104	99	79-129			
Dibromofluoromethane (S)	%.						104	103	80-120			
Toluene-d8 (S)	%.						98	96	80-120			

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30266050

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30266050

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30266050001	**Trip Blank**	EPA 8260B	315256		
30266050002	**CO43-PZM048**	EPA 8260B	315257		
30266050003	**CO44-PZM048**	EPA 8260B	315257		
30266050004	**CO45-PZM047**	EPA 8260B	315257		
30266050005	**CO47-PZM046**	EPA 8260B	315257		
30266050006	**CO48-PZM044**	EPA 8260B	315257		

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CHAIN-OF-CUSTOD

The Chain-of-Custody is a LEGAL D

WO# : 30266050

30266050

Page: 1 of 1

Section A Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5 Day

Section B Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	180222M-1

Section C Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC + NAPH by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			9-24-18	—		2				2					X		001
2	C043-PZM048	WT	G				1100		3				3					X		002
3	C044-PZM048	WT	G				1120		3				3					X		003
4	C045-PZM047	WT	G				1150		3				3					X		004
5	C047-PZM046	WT	G				1215		3				3					X		005
6	C048-PZM044	WT	G				1245		3				3					X		006
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No data flags		9-24-18	1445		9/24/18	1612				
		9/24/18	1940		9-24-18	1945		Y		
		9-24-18	2345		9/24/18	2345	2.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 9-24-18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: enviroanalytic Project # # 302660050

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label BMH
LIMS Login BMH

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.3 °C Correction Factor: +0.0 °C Final Temp: 2.3 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot# N/A	Date and Initials of person examining contents: BMH 9/25/18
Chain of Custody Present:	✓			1.	
Chain of Custody Filled Out:	✓			2.	
Chain of Custody Relinquished:	✓			3.	
Sampler Name & Signature on COC:	✓			4.	
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.	
Samples Arrived within Hold Time:	✓			6.	
Short Hold Time Analysis (<72hr remaining):		✓		7.	
Rush Turn Around Time Requested:	✓			8.	
Sufficient Volume:	✓			9.	
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.	
Containers Intact:	✓			11.	
Orthophosphate field filtered			✓	12.	
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.	
Organic Samples checked for dechlorination:			✓	14.	
Filtered volume received for Dissolved tests			✓	15.	
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			✓ ✓	16.	
exceptions: (VOA) coliform, TOC, O&G, Phenolics				Initial when completed BMH	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	✓			17. 1 vial in Sample 005	
Trip Blank Present:	✓			18.	
Trip Blank Custody Seals Present	✓				
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BMH	Date: 9/25/18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 21, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Dear Mr. Calenda:

Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revision 1: This report replaces the earlier December 21, 2018 report. This report was reissued to add a flag for VOC analysis.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30273971001	**Trip Blank**	Water	12/10/18 00:01	12/10/18 23:45
30273971002	**CO93-PZMXXX**	Water	12/10/18 09:40	12/10/18 23:45
30273971003	**CO02-PZM006**	Water	12/10/18 10:20	12/10/18 23:45
30273971004	**CO18-PZM006**	Water	12/10/18 11:05	12/10/18 23:45
30273971005	**CO101-PZMXXX**	Water	12/10/18 12:26	12/10/18 23:45
30273971006	**CO30-PZM015**	Water	12/10/18 13:15	12/10/18 23:45
30273971007	**CO30-PZM060**	Water	12/10/18 13:58	12/10/18 23:45
30273971008	**CO104-PZMXXX**	Water	12/10/18 15:15	12/10/18 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30273971001	**Trip Blank**	EPA 8260B	MAK	53	PASI-PA
30273971002	**CO93-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30273971003	**CO02-PZM006**	EPA 8260B	MAK	53	PASI-PA
30273971004	**CO18-PZM006**	EPA 8260B	MAK	53	PASI-PA
30273971005	**CO101-PZMXXX**	EPA 8260B	MAK	53	PASI-PA
30273971006	**CO30-PZM015**	EPA 8260B	MAK	53	PASI-PA
30273971007	**CO30-PZM060**	EPA 8260B	MAK	53	PASI-PA
30273971008	**CO104-PZMXXX**	EPA 8260B	MAK	53	PASI-PA

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: Trip Blank **Lab ID: 30273971001** Collected: 12/10/18 00:01 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/20/18 13:06	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 13:06	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 13:06	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 13:06	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/20/18 13:06	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 13:06	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/20/18 13:06	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		12/20/18 13:06	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 13:06	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/20/18 13:06	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 13:06	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/20/18 13:06	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 13:06	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		12/20/18 13:06	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		12/20/18 13:06	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		12/20/18 13:06	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		12/20/18 13:06	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/20/18 13:06	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/20/18 13:06	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 13:06	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/20/18 13:06	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 13:06	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/20/18 13:06	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 13:06	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 13:06	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/20/18 13:06	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/20/18 13:06	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/20/18 13:06	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/20/18 13:06	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/20/18 13:06	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/20/18 13:06	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 13:06	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		12/20/18 13:06	74-88-4	IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/20/18 13:06	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/20/18 13:06	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/20/18 13:06	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/20/18 13:06	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 13:06	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/20/18 13:06	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/20/18 13:06	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 13:06	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		12/20/18 13:06	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 13:06	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		12/20/18 13:06	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/20/18 13:06	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 13:06	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: Trip Blank **Lab ID: 30273971001** Collected: 12/10/18 00:01 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/20/18 13:06	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/20/18 13:06	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		12/20/18 13:06	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		1		12/20/18 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		12/20/18 13:06	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/20/18 13:06	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		12/20/18 13:06	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO93-PZMXXX **Lab ID: 30273971002** Collected: 12/10/18 09:40 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 16:35	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 16:35	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 16:35	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 16:35	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/20/18 16:35	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 16:35	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/20/18 16:35	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/20/18 16:35	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 16:35	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/20/18 16:35	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 16:35	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 16:35	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 16:35	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/20/18 16:35	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/20/18 16:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/20/18 16:35	108-10-1	
Acetone	**35.1J**	ug/L	50.0	14.2	5		12/20/18 16:35	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/20/18 16:35	107-13-1	
Benzene	**172000**	ug/L	1000	240	1000		12/20/18 16:59	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 16:35	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 16:35	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 16:35	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/20/18 16:35	74-83-9	
Carbon disulfide	**14.6**	ug/L	5.0	1.6	5		12/20/18 16:35	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 16:35	56-23-5	
Chlorobenzene	**10.1**	ug/L	5.0	0.75	5		12/20/18 16:35	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 16:35	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/20/18 16:35	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/20/18 16:35	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 16:35	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 16:35	74-95-3	
Ethylbenzene	**975**	ug/L	5.0	1.6	5		12/20/18 16:35	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/20/18 16:35	74-88-4	IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 16:35	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/20/18 16:35	75-09-2	
Naphthalene	**1930**	ug/L	10.0	4.1	5		12/20/18 16:35	91-20-3	
Styrene	**1010**	ug/L	5.0	0.85	5		12/20/18 16:35	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 16:35	127-18-4	
Toluene	**60700**	ug/L	1000	300	1000		12/20/18 16:59	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 16:35	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 16:35	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/20/18 16:35	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 16:35	75-01-4	
Xylene (Total)	**16200**	ug/L	3000	780	1000		12/20/18 16:59	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/20/18 16:35	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 16:35	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO93-PZMXXX **Lab ID: 30273971002** Collected: 12/10/18 09:40 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/20/18 16:35	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/20/18 16:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/20/18 16:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		5		12/20/18 16:35	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		12/20/18 16:35	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		12/20/18 16:35	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		12/20/18 16:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO02-PZM006 **Lab ID: 30273971003** Collected: 12/10/18 10:20 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 17:24	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 17:24	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 17:24	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 17:24	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/20/18 17:24	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 17:24	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/20/18 17:24	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/20/18 17:24	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 17:24	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/20/18 17:24	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 17:24	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 17:24	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 17:24	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/20/18 17:24	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/20/18 17:24	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/20/18 17:24	108-10-1	
Acetone	**39.6J**	ug/L	50.0	14.2	5		12/20/18 17:24	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/20/18 17:24	107-13-1	
Benzene	**155000**	ug/L	1000	240	1000		12/20/18 17:48	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 17:24	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 17:24	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 17:24	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/20/18 17:24	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 17:24	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 17:24	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/20/18 17:24	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 17:24	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/20/18 17:24	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/20/18 17:24	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 17:24	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 17:24	74-95-3	
Ethylbenzene	**283**	ug/L	5.0	1.6	5		12/20/18 17:24	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/20/18 17:24	74-88-4	IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 17:24	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/20/18 17:24	75-09-2	
Naphthalene	**187**	ug/L	10.0	4.1	5		12/20/18 17:24	91-20-3	
Styrene	**4.1J**	ug/L	5.0	0.85	5		12/20/18 17:24	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 17:24	127-18-4	
Toluene	**77.7**	ug/L	5.0	1.5	5		12/20/18 17:24	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 17:24	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 17:24	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/20/18 17:24	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 17:24	75-01-4	
Xylene (Total)	**139**	ug/L	15.0	3.9	5		12/20/18 17:24	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/20/18 17:24	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 17:24	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO02-PZM006 **Lab ID: 30273971003** Collected: 12/10/18 10:20 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/20/18 17:24	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/20/18 17:24	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/20/18 17:24	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		5		12/20/18 17:24	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		12/20/18 17:24	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		12/20/18 17:24	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/20/18 17:24	1868-53-7	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO18-PZM006 **Lab ID: 30273971004** Collected: 12/10/18 11:05 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 18:13	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 18:13	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 18:13	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 18:13	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/20/18 18:13	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 18:13	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/20/18 18:13	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/20/18 18:13	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 18:13	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/20/18 18:13	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 18:13	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 18:13	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 18:13	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/20/18 18:13	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/20/18 18:13	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/20/18 18:13	108-10-1	
Acetone	**65.6**	ug/L	50.0	14.2	5		12/20/18 18:13	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/20/18 18:13	107-13-1	
Benzene	**149000**	ug/L	2000	480	2000		12/20/18 18:38	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 18:13	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 18:13	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 18:13	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/20/18 18:13	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 18:13	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 18:13	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/20/18 18:13	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 18:13	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/20/18 18:13	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/20/18 18:13	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 18:13	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 18:13	74-95-3	
Ethylbenzene	**49.4**	ug/L	5.0	1.6	5		12/20/18 18:13	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/20/18 18:13	74-88-4	IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 18:13	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/20/18 18:13	75-09-2	
Naphthalene	**135**	ug/L	10.0	4.1	5		12/20/18 18:13	91-20-3	
Styrene	**1.6J**	ug/L	5.0	0.85	5		12/20/18 18:13	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 18:13	127-18-4	
Toluene	**6070**	ug/L	2000	600	2000		12/20/18 18:38	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 18:13	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 18:13	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/20/18 18:13	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 18:13	75-01-4	
Xylene (Total)	**1420**	ug/L	15.0	3.9	5		12/20/18 18:13	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/20/18 18:13	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 18:13	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO18-PZM006 **Lab ID: 30273971004** Collected: 12/10/18 11:05 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/20/18 18:13	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/20/18 18:13	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/20/18 18:13	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		5		12/20/18 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		12/20/18 18:13	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		12/20/18 18:13	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		12/20/18 18:13	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO101-PZMXXX **Lab ID: 30273971005** Collected: 12/10/18 12:26 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/20/18 19:02	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 19:02	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 19:02	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 19:02	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/20/18 19:02	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 19:02	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/20/18 19:02	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/20/18 19:02	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 19:02	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/20/18 19:02	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 19:02	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/20/18 19:02	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 19:02	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/20/18 19:02	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/20/18 19:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/20/18 19:02	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		12/20/18 19:02	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/20/18 19:02	107-13-1	
Benzene	**10.8**	ug/L	1.0	0.24	1		12/20/18 19:02	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 19:02	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/20/18 19:02	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 19:02	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/20/18 19:02	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 19:02	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 19:02	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/20/18 19:02	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/20/18 19:02	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/20/18 19:02	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/20/18 19:02	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/20/18 19:02	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/20/18 19:02	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 19:02	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/20/18 19:02	74-88-4	IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/20/18 19:02	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/20/18 19:02	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/20/18 19:02	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/20/18 19:02	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 19:02	127-18-4	
Toluene	**0.55J**	ug/L	1.0	0.30	1		12/20/18 19:02	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/20/18 19:02	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 19:02	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/20/18 19:02	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 19:02	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/20/18 19:02	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/20/18 19:02	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 19:02	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO101-PZMXXX **Lab ID: 30273971005** Collected: 12/10/18 12:26 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/20/18 19:02	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/20/18 19:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/20/18 19:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		1		12/20/18 19:02	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		12/20/18 19:02	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		12/20/18 19:02	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		12/20/18 19:02	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO30-PZM015 **Lab ID: 30273971006** Collected: 12/10/18 13:15 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 19:52	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 19:52	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 19:52	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 19:52	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/20/18 19:52	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 19:52	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/20/18 19:52	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/20/18 19:52	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 19:52	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/20/18 19:52	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 19:52	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 19:52	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/20/18 19:52	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/20/18 19:52	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/20/18 19:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/20/18 19:52	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		12/20/18 19:52	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/20/18 19:52	107-13-1	
Benzene	**70300**	ug/L	500	120	500		12/20/18 20:16	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 19:52	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 19:52	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 19:52	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/20/18 19:52	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 19:52	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/20/18 19:52	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/20/18 19:52	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/20/18 19:52	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/20/18 19:52	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/20/18 19:52	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 19:52	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 19:52	74-95-3	
Ethylbenzene	**111**	ug/L	5.0	1.6	5		12/20/18 19:52	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/20/18 19:52	74-88-4	IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 19:52	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/20/18 19:52	75-09-2	
Naphthalene	**4660**	ug/L	1000	410	500		12/20/18 20:16	91-20-3	
Styrene	**16.0**	ug/L	5.0	0.85	5		12/20/18 19:52	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 19:52	127-18-4	
Toluene	**5460**	ug/L	500	150	500		12/20/18 20:16	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/20/18 19:52	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/20/18 19:52	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/20/18 19:52	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/20/18 19:52	75-01-4	
Xylene (Total)	**1500**	ug/L	15.0	3.9	5		12/20/18 19:52	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/20/18 19:52	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/20/18 19:52	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO30-PZM015 **Lab ID: 30273971006** Collected: 12/10/18 13:15 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/20/18 19:52	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/20/18 19:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/20/18 19:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		5		12/20/18 19:52	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%.	80-120		5		12/20/18 19:52	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		5		12/20/18 19:52	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/20/18 19:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO30-PZM060 **Lab ID: 30273971007** Collected: 12/10/18 13:58 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/20/18 14:20	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 14:20	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 14:20	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 14:20	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/20/18 14:20	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 14:20	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/20/18 14:20	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/20/18 14:20	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 14:20	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/20/18 14:20	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 14:20	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/20/18 14:20	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 14:20	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/20/18 14:20	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/20/18 14:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/20/18 14:20	108-10-1	
Acetone	**3.1J**	ug/L	10.0	2.8	1		12/20/18 14:20	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/20/18 14:20	107-13-1	
Benzene	**22.2**	ug/L	1.0	0.24	1		12/20/18 14:20	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 14:20	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/20/18 14:20	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 14:20	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/20/18 14:20	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 14:20	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 14:20	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/20/18 14:20	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/20/18 14:20	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/20/18 14:20	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/20/18 14:20	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/20/18 14:20	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/20/18 14:20	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 14:20	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/20/18 14:20	74-88-4	IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/20/18 14:20	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/20/18 14:20	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/20/18 14:20	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/20/18 14:20	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 14:20	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/20/18 14:20	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/20/18 14:20	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 14:20	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/20/18 14:20	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 14:20	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/20/18 14:20	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/20/18 14:20	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 14:20	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO30-PZM060 **Lab ID: 30273971007** Collected: 12/10/18 13:58 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/20/18 14:20	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/20/18 14:20	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/20/18 14:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		1		12/20/18 14:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		1		12/20/18 14:20	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/20/18 14:20	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		1		12/20/18 14:20	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO104-PZMXXX **Lab ID: 30273971008** Collected: 12/10/18 15:15 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/20/18 14:44	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 14:44	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 14:44	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 14:44	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/20/18 14:44	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 14:44	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/20/18 14:44	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/20/18 14:44	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 14:44	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/20/18 14:44	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 14:44	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/20/18 14:44	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/20/18 14:44	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/20/18 14:44	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/20/18 14:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/20/18 14:44	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		12/20/18 14:44	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/20/18 14:44	107-13-1	
Benzene	**3.6**	ug/L	1.0	0.24	1		12/20/18 14:44	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 14:44	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/20/18 14:44	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 14:44	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/20/18 14:44	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 14:44	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/20/18 14:44	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/20/18 14:44	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/20/18 14:44	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/20/18 14:44	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/20/18 14:44	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/20/18 14:44	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/20/18 14:44	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 14:44	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/20/18 14:44	74-88-4	IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/20/18 14:44	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/20/18 14:44	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/20/18 14:44	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/20/18 14:44	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/20/18 14:44	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/20/18 14:44	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/20/18 14:44	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/20/18 14:44	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/20/18 14:44	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/20/18 14:44	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/20/18 14:44	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/20/18 14:44	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/20/18 14:44	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Sample: CO104-PZMXXX **Lab ID: 30273971008** Collected: 12/10/18 15:15 Received: 12/10/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/20/18 14:44	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/20/18 14:44	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/20/18 14:44	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		1		12/20/18 14:44	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		12/20/18 14:44	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		12/20/18 14:44	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		12/20/18 14:44	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

QC Batch: 324662 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30273971002, 30273971003, 30273971004, 30273971005, 30273971006

METHOD BLANK: 1582363 Matrix: Water
Associated Lab Samples: 30273971002, 30273971003, 30273971004, 30273971005, 30273971006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/20/18 11:15	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/20/18 11:15	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/20/18 11:15	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/20/18 11:15	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/20/18 11:15	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/20/18 11:15	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/20/18 11:15	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/20/18 11:15	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/20/18 11:15	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/20/18 11:15	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/20/18 11:15	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/20/18 11:15	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/20/18 11:15	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/20/18 11:15	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/20/18 11:15	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/20/18 11:15	
Acetone	ug/L	10.0 U	10.0	2.8	12/20/18 11:15	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/20/18 11:15	
Benzene	ug/L	1.0 U	1.0	0.24	12/20/18 11:15	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/20/18 11:15	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/20/18 11:15	
Bromoform	ug/L	1.0 U	1.0	0.32	12/20/18 11:15	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/20/18 11:15	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/20/18 11:15	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/20/18 11:15	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/20/18 11:15	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/20/18 11:15	
Chloroform	ug/L	1.0 U	1.0	0.30	12/20/18 11:15	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/20/18 11:15	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/20/18 11:15	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/20/18 11:15	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/20/18 11:15	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/20/18 11:15	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/20/18 11:15	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/20/18 11:15	IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/20/18 11:15	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	12/20/18 11:15	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/20/18 11:15	
Styrene	ug/L	1.0 U	1.0	0.17	12/20/18 11:15	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/20/18 11:15	
Toluene	ug/L	1.0 U	1.0	0.30	12/20/18 11:15	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

METHOD BLANK: 1582363 Matrix: Water
Associated Lab Samples: 30273971002, 30273971003, 30273971004, 30273971005, 30273971006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/20/18 11:15	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/20/18 11:15	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/20/18 11:15	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/20/18 11:15	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/20/18 11:15	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/20/18 11:15	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/20/18 11:15	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/20/18 11:15	
1,2-Dichloroethane-d4 (S)	%.	109	80-120		12/20/18 11:15	
4-Bromofluorobenzene (S)	%.	101	79-129		12/20/18 11:15	
Dibromofluoromethane (S)	%.	104	80-120		12/20/18 11:15	
Toluene-d8 (S)	%.	97	80-120		12/20/18 11:15	

LABORATORY CONTROL SAMPLE: 1582364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.7	94	70-130	
1,1,1-Trichloroethane	ug/L	20	19.7	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	65-127	
1,1,2-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethene	ug/L	20	21.1	105	70-130	
1,2,3-Trichloropropane	ug/L	20	20.0	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.5	87	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.3	96	70-130	
1,2-Dichlorobenzene	ug/L	20	19.5	98	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	70-130	
1,2-Dichloropropane	ug/L	20	19.7	98	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	20	19.0	95	72-170	
2-Hexanone	ug/L	20	18.2	91	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.6	93	66-150	
Acetone	ug/L	20	18.7	94	30-179	
Acrylonitrile	ug/L	20	20.9	105	48-172	
Benzene	ug/L	20	19.9	100	70-130	
Bromochloromethane	ug/L	20	20.7	103	70-130	
Bromodichloromethane	ug/L	20	18.2	91	70-130	
Bromoform	ug/L	20	15.9	80	70-130	
Bromomethane	ug/L	20	16.6	83	47-174	
Carbon disulfide	ug/L	20	19.3	96	43-133	
Carbon tetrachloride	ug/L	20	19.4	97	56-143	
Chlorobenzene	ug/L	20	19.8	99	70-130	
Chloroethane	ug/L	20	25.2	126	67-139	
Chloroform	ug/L	20	18.7	94	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

LABORATORY CONTROL SAMPLE: 1582364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.3	92	57-138	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	70-130	
Dibromochloromethane	ug/L	20	17.6	88	70-130	
Dibromomethane	ug/L	20	19.5	98	70-130	
Ethylbenzene	ug/L	20	19.9	99	70-130	
Iodomethane	ug/L	20	12.7J	63	10-175	IH
Methyl-tert-butyl ether	ug/L	20	20.0	100	70-130	
Methylene Chloride	ug/L	20	18.6	93	55-144	
Naphthalene	ug/L	20	19.5	98	70-130	
Styrene	ug/L	20	19.9	100	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.9	99	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.5	97	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	17.1	86	27-116	
Trichloroethene	ug/L	20	20.9	104	70-130	
Trichlorofluoromethane	ug/L	20	23.8	119	60-148	
Vinyl acetate	ug/L	20	17.3	87	30-181	
Vinyl chloride	ug/L	20	22.4	112	70-130	
Xylene (Total)	ug/L	60	61.3	102	70-130	
1,2-Dichloroethane-d4 (S)	%.			97	80-120	
4-Bromofluorobenzene (S)	%.			99	79-129	
Dibromofluoromethane (S)	%.			99	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582576 1582577

Parameter	Units	30274176012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.5	18.6	93	93	51-124	0	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.9	20.5	99	102	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.0	17.9	90	90	57-118	0	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.6	20.0	98	100	68-117	2	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	20.4	20.9	102	104	74-119	2	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	20.9	21.9	104	109	63-126	5	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	18.6	19.0	93	95	56-129	2	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.9	15.5	80	77	53-120	3	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	19.1	18.7	96	93	69-124	2	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.3	19.5	97	97	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	18.9	19.1	95	95	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	19.8	20.4	99	102	63-118	3	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.5	19.4	98	97	72-118	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	18.8	18.9	94	95	72-168	1	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1582576			1582577							
Parameter	Units	30274176012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	17.9	17.7	90	89	66-143	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	18.1	18.3	90	92	67-145	1	30	
Acetone	ug/L	9.3J	20	20	24.5	25.5	76	81	15-175	4	30	
Acrylonitrile	ug/L	4.0 U	20	20	18.3	19.2	91	96	36-165	5	30	
Benzene	ug/L	1.0 U	20	20	20.0	20.8	100	104	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.8	20.3	99	101	62-128	2	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.3	19.6	96	98	66-127	2	30	
Bromoform	ug/L	1.0 U	20	20	14.7	14.7	74	73	71-127	0	30	
Bromomethane	ug/L	1.0 U	20	20	18.4	18.0	92	90	10-156	2	30	
Carbon disulfide	ug/L	1.0 U	20	20	16.0	16.5	80	83	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.6	20.9	98	105	69-134	6	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.5	20.7	102	104	69-119	1	30	
Chloroethane	ug/L	1.0 U	20	20	28.7	30.0	144	150	60-156	4	30	
Chloroform	ug/L	1.0 U	20	20	18.5	19.0	93	95	69-115	3	30	
Chloromethane	ug/L	1.0 U	20	20	19.4	20.8	97	104	52-145	7	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.3	19.7	97	99	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.2	19.0	91	95	57-125	4	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.5	17.1	87	86	64-131	2	30	
Dibromomethane	ug/L	1.0 U	20	20	19.7	20.2	98	101	56-133	2	30	
Ethylbenzene	ug/L	1.0 U	20	20	21.0	21.3	104	106	70-127	1	30	
Iodomethane	ug/L	50.0 U	20	20	9.9J	9.3J	49	46	10-152		30	IH
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	19.2	19.2	96	96	79-135	0	30	
Methylene Chloride	ug/L	1.0 U	20	20	17.8	18.9	89	95	54-133	6	30	
Naphthalene	ug/L	10.8	20	20	31.0	31.9	101	106	62-131	3	30	
Styrene	ug/L	1.0 U	20	20	19.9	20.0	100	100	65-121	1	30	
Tetrachloroethene	ug/L	1.0 U	20	20	21.7	21.9	109	109	77-125	1	30	
Toluene	ug/L	19.2	20	20	41.8	42.5	113	117	77-125	2	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	20.2	20.3	101	102	70-119	0	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	18.7	18.9	94	94	52-125	1	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	15.0	15.0	75	75	13-100	0	30	
Trichloroethene	ug/L	1.0 U	20	20	20.3	21.0	101	105	74-128	4	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	29.8	30.7	149	154	54-164	3	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.2	17.3	81	86	15-173	6	30	
Vinyl chloride	ug/L	1.0 U	20	20	26.1	27.7	131	138	60-131	6	30	MH
Xylene (Total)	ug/L	0.93J	60	60	64.1	64.4	105	106	69-128	0	30	
1,2-Dichloroethane-d4 (S)	%.						94	97	80-120			
4-Bromofluorobenzene (S)	%.						102	100	79-129			
Dibromofluoromethane (S)	%.						95	97	80-120			
Toluene-d8 (S)	%.						98	98	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

QC Batch: 324664 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30273971001, 30273971007, 30273971008

METHOD BLANK: 1582380 Matrix: Water
Associated Lab Samples: 30273971001, 30273971007, 30273971008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/20/18 11:03	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/20/18 11:03	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/20/18 11:03	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/20/18 11:03	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/20/18 11:03	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/20/18 11:03	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/20/18 11:03	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/20/18 11:03	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/20/18 11:03	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/20/18 11:03	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/20/18 11:03	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/20/18 11:03	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/20/18 11:03	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/20/18 11:03	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/20/18 11:03	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/20/18 11:03	
Acetone	ug/L	10.0 U	10.0	2.8	12/20/18 11:03	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/20/18 11:03	
Benzene	ug/L	1.0 U	1.0	0.24	12/20/18 11:03	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/20/18 11:03	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/20/18 11:03	
Bromoform	ug/L	1.0 U	1.0	0.32	12/20/18 11:03	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/20/18 11:03	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/20/18 11:03	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/20/18 11:03	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/20/18 11:03	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/20/18 11:03	
Chloroform	ug/L	1.0 U	1.0	0.30	12/20/18 11:03	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/20/18 11:03	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/20/18 11:03	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/20/18 11:03	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/20/18 11:03	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/20/18 11:03	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/20/18 11:03	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/20/18 11:03	IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/20/18 11:03	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	12/20/18 11:03	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/20/18 11:03	
Styrene	ug/L	1.0 U	1.0	0.17	12/20/18 11:03	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/20/18 11:03	
Toluene	ug/L	1.0 U	1.0	0.30	12/20/18 11:03	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

METHOD BLANK: 1582380 Matrix: Water
Associated Lab Samples: 30273971001, 30273971007, 30273971008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/20/18 11:03	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/20/18 11:03	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/20/18 11:03	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/20/18 11:03	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/20/18 11:03	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/20/18 11:03	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/20/18 11:03	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/20/18 11:03	
1,2-Dichloroethane-d4 (S)	%.	104	80-120		12/20/18 11:03	
4-Bromofluorobenzene (S)	%.	99	79-129		12/20/18 11:03	
Dibromofluoromethane (S)	%.	100	80-120		12/20/18 11:03	
Toluene-d8 (S)	%.	97	80-120		12/20/18 11:03	

LABORATORY CONTROL SAMPLE: 1582381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.3	91	70-130	
1,1,1-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	65-127	
1,1,2-Trichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethane	ug/L	20	18.7	93	70-130	
1,1-Dichloroethene	ug/L	20	18.6	93	70-130	
1,2,3-Trichloropropane	ug/L	20	18.8	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.4	87	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.1	96	70-130	
1,2-Dichlorobenzene	ug/L	20	19.9	99	70-130	
1,2-Dichloroethane	ug/L	20	18.7	94	70-130	
1,2-Dichloropropane	ug/L	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	20	19.9	100	70-130	
2-Butanone (MEK)	ug/L	20	19.0	95	72-170	
2-Hexanone	ug/L	20	17.1	85	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	66-150	
Acetone	ug/L	20	18.9	94	30-179	
Acrylonitrile	ug/L	20	19.5	98	48-172	
Benzene	ug/L	20	18.6	93	70-130	
Bromochloromethane	ug/L	20	20.1	100	70-130	
Bromodichloromethane	ug/L	20	17.5	87	70-130	
Bromoform	ug/L	20	15.9	80	70-130	
Bromomethane	ug/L	20	16.0	80	47-174	
Carbon disulfide	ug/L	20	17.2	86	43-133	
Carbon tetrachloride	ug/L	20	17.6	88	56-143	
Chlorobenzene	ug/L	20	19.5	98	70-130	
Chloroethane	ug/L	20	20.2	101	67-139	
Chloroform	ug/L	20	18.1	90	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

LABORATORY CONTROL SAMPLE: 1582381

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	17.6	88	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.1	91	70-130	
Dibromochloromethane	ug/L	20	17.2	86	70-130	
Dibromomethane	ug/L	20	19.5	97	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
Iodomethane	ug/L	20	11.8J	59	10-175	IH
Methyl-tert-butyl ether	ug/L	20	19.3	96	70-130	
Methylene Chloride	ug/L	20	19.9	99	55-144	
Naphthalene	ug/L	20	20.2	101	70-130	
Styrene	ug/L	20	19.4	97	70-130	
Tetrachloroethene	ug/L	20	19.8	99	70-130	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.5	97	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.4	92	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.3	77	27-116	
Trichloroethene	ug/L	20	18.4	92	70-130	
Trichlorofluoromethane	ug/L	20	23.7	118	60-148	
Vinyl acetate	ug/L	20	17.2	86	30-181	
Vinyl chloride	ug/L	20	21.0	105	70-130	
Xylene (Total)	ug/L	60	59.0	98	70-130	
1,2-Dichloroethane-d4 (S)	%.			101	80-120	
4-Bromofluorobenzene (S)	%.			100	79-129	
Dibromofluoromethane (S)	%.			97	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582578 1582579

Parameter	Units	30274497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.6	17.5	88	88	51-124	0	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	19.9	19.5	100	97	79-129	2	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	17.3	88	87	57-118	1	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.3	19.4	96	97	68-117	1	30	
1,1-Dichloroethane	ug/L	ND	20	20	19.7	19.8	98	99	74-119	1	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	19.9	101	100	63-126	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.2	18.0	91	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	15.6	15.3	78	77	53-120	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.6	18.5	93	93	69-124	0	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.3	19.1	96	96	72-119	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	18.6	18.6	93	93	69-116	0	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.7	19.3	99	97	63-118	2	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.3	19.1	97	96	72-118	1	30	
2-Butanone (MEK)	ug/L	ND	20	20	17.7	17.0	89	85	72-168	4	30	

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582578 1582579

Parameter	Units	30274497001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	20	20	16.5	17.2	83	86	66-143	4	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.8	17.6	94	88	67-145	6	30	
Acetone	ug/L	19.5	20	20	32.8	35.0	66	77	15-175	6	30	
Acrylonitrile	ug/L	ND	20	20	17.6	18.0	88	90	36-165	2	30	
Benzene	ug/L	ND	20	20	20.6	20.3	103	102	67-121	1	30	
Bromochloromethane	ug/L	ND	20	20	21.0	20.2	105	101	62-128	4	30	
Bromodichloromethane	ug/L	ND	20	20	20.1	19.7	96	94	66-127	2	30	
Bromoform	ug/L	ND	20	20	14.4	14.1	72	71	71-127	2	30	
Bromomethane	ug/L	4.4	20	20	11.6	13.0	36	43	10-156	11	30	
Carbon disulfide	ug/L	ND	20	20	15.2	14.2	76	71	45-131	7	30	
Carbon tetrachloride	ug/L	ND	20	20	18.7	18.4	93	92	69-134	2	30	
Chlorobenzene	ug/L	ND	20	20	20.5	20.0	102	100	69-119	2	30	
Chloroethane	ug/L	ND	20	20	26.2	25.7	131	128	60-156	2	30	
Chloroform	ug/L	2.7	20	20	20.6	20.8	90	91	69-115	1	30	
Chloromethane	ug/L	225	20	20	289	91.0	321	-669	52-145	104	30	MH, ML, R1
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.3	18.8	97	94	65-120	3	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.3	18.0	91	90	57-125	2	30	
Dibromochloromethane	ug/L	ND	20	20	16.8	16.6	84	83	64-131	1	30	
Dibromomethane	ug/L	ND	20	20	19.7	19.8	98	99	56-133	0	30	
Ethylbenzene	ug/L	ND	20	20	20.2	19.6	101	98	70-127	3	30	
Iodomethane	ug/L	ND	20	20	4.2J	6.7J	2	15	10-152		30	IH,ML
Methyl-tert-butyl ether	ug/L	ND	20	20	18.7	18.5	93	93	79-135	1	30	
Methylene Chloride	ug/L	ND	20	20	19.8	19.3	99	96	54-133	3	30	
Naphthalene	ug/L	ND	20	20	20.0	19.7	100	99	62-131	1	30	
Styrene	ug/L	ND	20	20	19.1	19.4	96	97	65-121	1	30	
Tetrachloroethene	ug/L	ND	20	20	20.7	21.0	104	105	77-125	1	30	
Toluene	ug/L	ND	20	20	19.8	20.1	99	100	77-125	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.1	20.1	101	100	70-119	0	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.5	17.5	88	87	52-125	0	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	13.1	13.3	66	67	13-100	1	30	
Trichloroethene	ug/L	ND	20	20	19.6	19.4	98	97	74-128	1	30	
Trichlorofluoromethane	ug/L	ND	20	20	30.8	30.0	154	150	54-164	3	30	
Vinyl acetate	ug/L	ND	20	20	14.2	14.2	71	71	15-173	0	30	
Vinyl chloride	ug/L	ND	20	20	25.7	25.5	129	127	60-131	1	30	
Xylene (Total)	ug/L	ND	60	60	60.1	62.1	100	104	69-128	3	30	
1,2-Dichloroethane-d4 (S)	%.						99	100	80-120			
4-Bromofluorobenzene (S)	%.						100	98	79-129			
Dibromofluoromethane (S)	%.						97	95	80-120			
Toluene-d8 (S)	%.						99	99	80-120			

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REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling-Revised Report
Pace Project No.: 30273971

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30273971001	**Trip Blank**	EPA 8260B	324664		
30273971002	**CO93-PZMXXX**	EPA 8260B	324662		
30273971003	**CO02-PZM006**	EPA 8260B	324662		
30273971004	**CO18-PZM006**	EPA 8260B	324662		
30273971005	**CO101-PZMXXX**	EPA 8260B	324662		
30273971006	**CO30-PZM015**	EPA 8260B	324662		
30273971007	**CO30-PZM060**	EPA 8260B	324664		
30273971008	**CO104-PZMXXX**	EPA 8260B	324664		

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Pace Analytical
www.pacelabs.com

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A — Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Mail To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5 Day

Section B — Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	180227M-1-2

Section C — Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

Page: 1 of 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D — Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

WO#: 30273971

30273971

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	Residl	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			12/10/18	—		2				2						X		001
2	C093-PZM XXX	WT	G				940		3				3						X		002
3	C002-PZM006	WT	G				1020		3				3						X		003
4	C018-PZM006	WT	G				1105		3				3						X		004
5	C0101-PZM XXX	WT	G				1226		3				3						X		005
6	C030-PZM015	WT	G				1315		3				3						X		006
7	C030-PZM060	WT	G				1358		3				3						X		007
8	C0104-PZM XXX	WT	G				1515		3				3						X		008
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No data pkgs		12/10/18	1600		12/10/18	1600				
		12/10/18	2010		12-10-18	2010		Y		
		12-10-18	2345		12-10-18	2345	23	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perron

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 12-10-18

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: Enviro Analytics Project # 30273971

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Label BVM
LIMS Login BVM

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.4 °C Correction Factor: -0.1 °C Final Temp: 2.3 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: ET 12-11-18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			✓	16.
exceptions: (VOA), coliform, TOC, O&G, Phenolics				Initial when completed / Date/time of preservation / Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present: Trip Blank Custody Seals Present	✓			18.
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: / Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

***PM review** is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 31, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30274557

Dear Mr. Calenda:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30274557

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30274557001	**Trip Blank**	Water	12/14/18 00:01	12/14/18 23:45
30274557002	**CO39-PZM042**	Water	12/14/18 09:10	12/14/18 23:45
30274557003	**CO39-PZM007**	Water	12/14/18 09:35	12/14/18 23:45
30274557004	**CO36-PZM008**	Water	12/14/18 10:20	12/14/18 23:45
30274557005	**CO36-PZM043**	Water	12/14/18 10:50	12/14/18 23:45
30274557006	**CO38-PZM006**	Water	12/14/18 11:40	12/14/18 23:45
30274557007	**CO38-PZM043**	Water	12/14/18 12:10	12/14/18 23:45
30274557008	**CO40-PZM008**	Water	12/14/18 13:40	12/14/18 23:45
30274557009	**CO41-PZM036**	Water	12/14/18 14:20	12/14/18 23:45
30274557010	**CO41-PZM001**	Water	12/14/18 15:00	12/14/18 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30274557

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30274557001	**Trip Blank**	EPA 8260B	LEL	53
30274557002	**CO39-PZM042**	EPA 8260B	LEL	53
30274557003	**CO39-PZM007**	EPA 8260B	LEL	53
30274557004	**CO36-PZM008**	EPA 8260B	LEL	53
30274557005	**CO36-PZM043**	EPA 8260B	LEL	53
30274557006	**CO38-PZM006**	EPA 8260B	LEL	53
30274557007	**CO38-PZM043**	EPA 8260B	LEL	53
30274557008	**CO40-PZM008**	EPA 8260B	LEL	53
30274557009	**CO41-PZM036**	EPA 8260B	LEL	53
30274557010	**CO41-PZM001**	EPA 8260B	LEL	53

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30274557

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: December 31, 2018

General Information:
10 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 325311

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- BLANK (Lab ID: 1585415)
  - Iodomethane
- CO36-PZM008 (Lab ID: 30274557004)
  - Iodomethane
- CO36-PZM043 (Lab ID: 30274557005)
  - Iodomethane
- CO38-PZM006 (Lab ID: 30274557006)
  - Iodomethane
- CO38-PZM043 (Lab ID: 30274557007)
  - Iodomethane
- CO39-PZM007 (Lab ID: 30274557003)
  - Iodomethane
- CO39-PZM042 (Lab ID: 30274557002)
  - Iodomethane
- CO40-PZM008 (Lab ID: 30274557008)
  - Iodomethane
- CO41-PZM001 (Lab ID: 30274557010)
  - Iodomethane
- CO41-PZM036 (Lab ID: 30274557009)
  - Iodomethane
- LCS (Lab ID: 1585416)
  - Iodomethane
- MS (Lab ID: 1585574)
  - Iodomethane
- MSD (Lab ID: 1585575)
  - Iodomethane
- Trip Blank (Lab ID: 30274557001)
  - Iodomethane

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30274557

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: December 31, 2018

QC Batch: 325311

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 1585415)
  - Iodomethane
- CO36-PZM008 (Lab ID: 30274557004)
  - Iodomethane
- CO36-PZM043 (Lab ID: 30274557005)
  - Iodomethane
- CO38-PZM006 (Lab ID: 30274557006)
  - Iodomethane
- CO38-PZM043 (Lab ID: 30274557007)
  - Iodomethane
- CO39-PZM007 (Lab ID: 30274557003)
  - Iodomethane
- CO39-PZM042 (Lab ID: 30274557002)
  - Iodomethane
- CO40-PZM008 (Lab ID: 30274557008)
  - Iodomethane
- CO41-PZM001 (Lab ID: 30274557010)
  - Iodomethane
- CO41-PZM036 (Lab ID: 30274557009)
  - Iodomethane
- LCS (Lab ID: 1585416)
  - Iodomethane
- MS (Lab ID: 1585574)
  - Iodomethane
- MSD (Lab ID: 1585575)
  - Iodomethane
- Trip Blank (Lab ID: 30274557001)
  - Iodomethane

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: COA IM GW Sampling
Pace Project No.: 30274557

Method: **EPA 8260B**
Description: 8260B MSV
Client: EnviroAnalytics Group, LLC
Date: December 31, 2018

QC Batch: 325311

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30274557007

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1585574)
  - Bromoform
  - Methyl-tert-butyl ether
- MSD (Lab ID: 1585575)
  - 2-Butanone (MEK)
  - Bromoform

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: Trip Blank **Lab ID: 30274557001** Collected: 12/14/18 00:01 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 13:56	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 13:56	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 13:56	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 13:56	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 13:56	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 13:56	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 13:56	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		12/27/18 13:56	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 13:56	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 13:56	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 13:56	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 13:56	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 13:56	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		12/27/18 13:56	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		12/27/18 13:56	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		12/27/18 13:56	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		12/27/18 13:56	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 13:56	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/27/18 13:56	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 13:56	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 13:56	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 13:56	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 13:56	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 13:56	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 13:56	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 13:56	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 13:56	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 13:56	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 13:56	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 13:56	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 13:56	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 13:56	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		12/27/18 13:56	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 13:56	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 13:56	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/27/18 13:56	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/27/18 13:56	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 13:56	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 13:56	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 13:56	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 13:56	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		12/27/18 13:56	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 13:56	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		12/27/18 13:56	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 13:56	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 13:56	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: Trip Blank **Lab ID: 30274557001** Collected: 12/14/18 00:01 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 13:56	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 13:56	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		12/27/18 13:56	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		1		12/27/18 13:56	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		12/27/18 13:56	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		1		12/27/18 13:56	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/27/18 13:56	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO39-PZM042 **Lab ID: 30274557002** Collected: 12/14/18 09:10 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 17:37	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 17:37	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 17:37	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 17:37	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 17:37	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 17:37	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 17:37	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/27/18 17:37	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 17:37	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 17:37	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 17:37	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 17:37	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 17:37	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/27/18 17:37	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/27/18 17:37	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/27/18 17:37	108-10-1	
Acetone	**3.4J**	ug/L	10.0	2.8	1		12/27/18 17:37	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 17:37	107-13-1	
Benzene	**3720**	ug/L	50.0	12.0	50		12/27/18 18:01	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 17:37	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 17:37	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 17:37	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 17:37	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 17:37	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 17:37	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 17:37	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 17:37	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 17:37	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 17:37	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 17:37	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 17:37	74-95-3	
Ethylbenzene	**37.7**	ug/L	1.0	0.31	1		12/27/18 17:37	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/27/18 17:37	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 17:37	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 17:37	75-09-2	
Naphthalene	**1970**	ug/L	100	41.0	50		12/27/18 18:01	91-20-3	
Styrene	**55.3**	ug/L	1.0	0.17	1		12/27/18 17:37	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 17:37	127-18-4	
Toluene	**1320**	ug/L	50.0	15.0	50		12/27/18 18:01	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 17:37	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 17:37	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/27/18 17:37	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 17:37	75-01-4	
Xylene (Total)	**323**	ug/L	3.0	0.78	1		12/27/18 17:37	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 17:37	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 17:37	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO39-PZM042 **Lab ID: 30274557002** Collected: 12/14/18 09:10 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 17:37	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 17:37	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/27/18 17:37	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		12/27/18 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		1		12/27/18 17:37	17060-07-0	
Toluene-d8 (S)	101	%.	80-120		1		12/27/18 17:37	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		1		12/27/18 17:37	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO39-PZM007 **Lab ID: 30274557003** Collected: 12/14/18 09:35 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 15:59	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 15:59	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 15:59	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 15:59	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 15:59	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 15:59	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 15:59	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/27/18 15:59	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 15:59	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 15:59	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 15:59	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 15:59	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 15:59	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/27/18 15:59	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/27/18 15:59	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/27/18 15:59	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		12/27/18 15:59	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 15:59	107-13-1	
Benzene	**381**	ug/L	20.0	4.8	20		12/27/18 16:23	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 15:59	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 15:59	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 15:59	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 15:59	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 15:59	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 15:59	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 15:59	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 15:59	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 15:59	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 15:59	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 15:59	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 15:59	74-95-3	
Ethylbenzene	**2.2**	ug/L	1.0	0.31	1		12/27/18 15:59	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/27/18 15:59	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 15:59	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 15:59	75-09-2	
Naphthalene	**902**	ug/L	40.0	16.4	20		12/27/18 16:23	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/27/18 15:59	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 15:59	127-18-4	
Toluene	**24.8**	ug/L	1.0	0.30	1		12/27/18 15:59	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 15:59	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 15:59	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/27/18 15:59	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 15:59	75-01-4	
Xylene (Total)	**12.0**	ug/L	3.0	0.78	1		12/27/18 15:59	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 15:59	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 15:59	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO39-PZM007 **Lab ID: 30274557003** Collected: 12/14/18 09:35 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 15:59	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 15:59	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/27/18 15:59	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		1		12/27/18 15:59	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		1		12/27/18 15:59	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/27/18 15:59	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		12/27/18 15:59	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO36-PZM008 **Lab ID: 30274557004** Collected: 12/14/18 10:20 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 19:14	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:14	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 19:14	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:14	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/27/18 19:14	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:14	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/27/18 19:14	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/27/18 19:14	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:14	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/27/18 19:14	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 19:14	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:14	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:14	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/27/18 19:14	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/27/18 19:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/27/18 19:14	108-10-1	
Acetone	**29.5J**	ug/L	50.0	14.2	5		12/27/18 19:14	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/27/18 19:14	107-13-1	
Benzene	**8050**	ug/L	200	48.0	200		12/27/18 19:39	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 19:14	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:14	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:14	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/18 19:14	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:14	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 19:14	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/27/18 19:14	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 19:14	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/27/18 19:14	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/27/18 19:14	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:14	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 19:14	74-95-3	
Ethylbenzene	**27.2**	ug/L	5.0	1.6	5		12/27/18 19:14	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/27/18 19:14	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 19:14	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/27/18 19:14	75-09-2	
Naphthalene	**311**	ug/L	10.0	4.1	5		12/27/18 19:14	91-20-3	
Styrene	**7.6**	ug/L	5.0	0.85	5		12/27/18 19:14	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:14	127-18-4	
Toluene	**1610**	ug/L	5.0	1.5	5		12/27/18 19:14	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 19:14	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:14	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/27/18 19:14	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:14	75-01-4	
Xylene (Total)	**642**	ug/L	15.0	3.9	5		12/27/18 19:14	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/27/18 19:14	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 19:14	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO36-PZM008 **Lab ID: 30274557004** Collected: 12/14/18 10:20 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/27/18 19:14	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/27/18 19:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/27/18 19:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		5		12/27/18 19:14	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	80-120		5		12/27/18 19:14	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		12/27/18 19:14	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		5		12/27/18 19:14	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO36-PZM043 **Lab ID: 30274557005** Collected: 12/14/18 10:50 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 20:03	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:03	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:03	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:03	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/27/18 20:03	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:03	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/27/18 20:03	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/27/18 20:03	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:03	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/27/18 20:03	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:03	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:03	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:03	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/27/18 20:03	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/27/18 20:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/27/18 20:03	108-10-1	
Acetone	**25.1J**	ug/L	50.0	14.2	5		12/27/18 20:03	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/27/18 20:03	107-13-1	
Benzene	**31200**	ug/L	200	48.0	200		12/27/18 20:27	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:03	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:03	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:03	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/18 20:03	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:03	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:03	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/27/18 20:03	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 20:03	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/27/18 20:03	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/27/18 20:03	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:03	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 20:03	74-95-3	
Ethylbenzene	**45.8**	ug/L	5.0	1.6	5		12/27/18 20:03	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/27/18 20:03	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:03	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/27/18 20:03	75-09-2	
Naphthalene	**766**	ug/L	10.0	4.1	5		12/27/18 20:03	91-20-3	
Styrene	**10.1**	ug/L	5.0	0.85	5		12/27/18 20:03	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:03	127-18-4	
Toluene	**3740**	ug/L	200	60.0	200		12/27/18 20:27	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 20:03	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:03	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/27/18 20:03	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:03	75-01-4	
Xylene (Total)	**735**	ug/L	15.0	3.9	5		12/27/18 20:03	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/27/18 20:03	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:03	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO36-PZM043 **Lab ID: 30274557005** Collected: 12/14/18 10:50 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/27/18 20:03	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/27/18 20:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/27/18 20:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		5		12/27/18 20:03	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%.	80-120		5		12/27/18 20:03	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		12/27/18 20:03	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/27/18 20:03	1868-53-7	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO38-PZM006 **Lab ID: 30274557006** Collected: 12/14/18 11:40 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 18:25	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 18:25	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 18:25	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 18:25	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/27/18 18:25	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 18:25	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/27/18 18:25	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/27/18 18:25	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 18:25	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/27/18 18:25	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 18:25	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 18:25	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 18:25	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/27/18 18:25	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/27/18 18:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/27/18 18:25	108-10-1	
Acetone	**16.5J**	ug/L	50.0	14.2	5		12/27/18 18:25	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/27/18 18:25	107-13-1	
Benzene	**5060**	ug/L	100	24.0	100		12/27/18 18:50	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 18:25	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 18:25	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 18:25	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/18 18:25	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 18:25	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 18:25	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/27/18 18:25	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 18:25	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/27/18 18:25	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/27/18 18:25	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 18:25	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 18:25	74-95-3	
Ethylbenzene	**60.7**	ug/L	5.0	1.6	5		12/27/18 18:25	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/27/18 18:25	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 18:25	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/27/18 18:25	75-09-2	
Naphthalene	**1370**	ug/L	10.0	4.1	5		12/27/18 18:25	91-20-3	
Styrene	**45.5**	ug/L	5.0	0.85	5		12/27/18 18:25	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 18:25	127-18-4	
Toluene	**1040**	ug/L	5.0	1.5	5		12/27/18 18:25	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 18:25	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 18:25	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/27/18 18:25	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 18:25	75-01-4	
Xylene (Total)	**496**	ug/L	15.0	3.9	5		12/27/18 18:25	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/27/18 18:25	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 18:25	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO38-PZM006 **Lab ID: 30274557006** Collected: 12/14/18 11:40 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/27/18 18:25	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/27/18 18:25	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/27/18 18:25	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	79-129		5		12/27/18 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%.	80-120		5		12/27/18 18:25	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		12/27/18 18:25	2037-26-5	
Dibromofluoromethane (S)	90	%.	80-120		5		12/27/18 18:25	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO38-PZM043 **Lab ID: 30274557007** Collected: 12/14/18 12:10 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 14:21	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 14:21	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 14:21	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 14:21	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 14:21	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 14:21	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 14:21	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/27/18 14:21	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 14:21	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 14:21	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 14:21	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 14:21	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 14:21	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/27/18 14:21	78-93-3	ML
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/27/18 14:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/27/18 14:21	108-10-1	
Acetone	**3.1J**	ug/L	10.0	2.8	1		12/27/18 14:21	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 14:21	107-13-1	
Benzene	**0.45J**	ug/L	1.0	0.24	1		12/27/18 14:21	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 14:21	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 14:21	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 14:21	75-25-2	ML
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 14:21	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 14:21	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 14:21	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 14:21	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 14:21	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 14:21	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 14:21	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 14:21	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 14:21	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 14:21	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/27/18 14:21	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 14:21	1634-04-4	ML
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 14:21	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/27/18 14:21	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/27/18 14:21	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 14:21	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 14:21	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 14:21	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 14:21	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/27/18 14:21	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 14:21	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/27/18 14:21	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 14:21	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 14:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO38-PZM043 **Lab ID: 30274557007** Collected: 12/14/18 12:10 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 14:21	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 14:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/27/18 14:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		1		12/27/18 14:21	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	80-120		1		12/27/18 14:21	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/27/18 14:21	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/27/18 14:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO40-PZM008 **Lab ID: 30274557008** Collected: 12/14/18 13:40 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 16:48	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 16:48	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 16:48	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 16:48	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 16:48	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 16:48	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 16:48	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/27/18 16:48	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 16:48	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 16:48	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 16:48	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 16:48	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 16:48	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/27/18 16:48	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/27/18 16:48	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/27/18 16:48	108-10-1	
Acetone	**4.3J**	ug/L	10.0	2.8	1		12/27/18 16:48	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 16:48	107-13-1	
Benzene	**1340**	ug/L	20.0	4.8	20		12/27/18 17:12	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 16:48	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 16:48	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 16:48	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 16:48	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 16:48	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 16:48	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 16:48	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 16:48	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 16:48	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 16:48	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 16:48	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 16:48	74-95-3	
Ethylbenzene	**17.3**	ug/L	1.0	0.31	1		12/27/18 16:48	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/27/18 16:48	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 16:48	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 16:48	75-09-2	
Naphthalene	**1720**	ug/L	40.0	16.4	20		12/27/18 17:12	91-20-3	
Styrene	**19.7**	ug/L	1.0	0.17	1		12/27/18 16:48	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 16:48	127-18-4	
Toluene	**344**	ug/L	20.0	6.0	20		12/27/18 17:12	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 16:48	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 16:48	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/27/18 16:48	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 16:48	75-01-4	
Xylene (Total)	**153**	ug/L	3.0	0.78	1		12/27/18 16:48	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 16:48	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 16:48	10061-01-5	

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO40-PZM008 **Lab ID: 30274557008** Collected: 12/14/18 13:40 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 16:48	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 16:48	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/27/18 16:48	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		1		12/27/18 16:48	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%.	80-120		1		12/27/18 16:48	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/27/18 16:48	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		1		12/27/18 16:48	1868-53-7	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO41-PZM036 **Lab ID: 30274557009** Collected: 12/14/18 14:20 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 20:52	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:52	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:52	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:52	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/27/18 20:52	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:52	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/27/18 20:52	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/27/18 20:52	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:52	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/27/18 20:52	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:52	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:52	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:52	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/27/18 20:52	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/27/18 20:52	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/27/18 20:52	108-10-1	
Acetone	**51.1**	ug/L	50.0	14.2	5		12/27/18 20:52	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/27/18 20:52	107-13-1	
Benzene	**245000**	ug/L	1000	240	1000		12/28/18 17:25	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:52	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:52	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:52	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/18 20:52	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:52	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:52	56-23-5	
Chlorobenzene	**2.1J**	ug/L	5.0	0.75	5		12/27/18 20:52	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 20:52	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/27/18 20:52	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/27/18 20:52	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:52	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 20:52	74-95-3	
Ethylbenzene	**580**	ug/L	5.0	1.6	5		12/27/18 20:52	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/27/18 20:52	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:52	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/27/18 20:52	75-09-2	
Naphthalene	**327**	ug/L	10.0	4.1	5		12/27/18 20:52	91-20-3	
Styrene	**319**	ug/L	5.0	0.85	5		12/27/18 20:52	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:52	127-18-4	
Toluene	**66700**	ug/L	500	150	500		12/27/18 21:16	108-88-3	
Trichloroethene	**4.0J**	ug/L	5.0	2.0	5		12/27/18 20:52	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:52	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/27/18 20:52	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:52	75-01-4	
Xylene (Total)	**13300**	ug/L	1500	390	500		12/27/18 21:16	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/27/18 20:52	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:52	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO41-PZM036 **Lab ID: 30274557009** Collected: 12/14/18 14:20 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/27/18 20:52	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/27/18 20:52	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/27/18 20:52	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		5		12/27/18 20:52	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%.	80-120		5		12/27/18 20:52	17060-07-0	
Toluene-d8 (S)	103	%.	80-120		5		12/27/18 20:52	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		12/27/18 20:52	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO41-PZM001 **Lab ID: 30274557010** Collected: 12/14/18 15:00 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 15:34	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 15:34	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 15:34	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 15:34	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 15:34	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 15:34	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 15:34	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/27/18 15:34	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 15:34	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 15:34	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 15:34	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 15:34	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 15:34	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/27/18 15:34	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/27/18 15:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/27/18 15:34	108-10-1	
Acetone	**5.9J**	ug/L	10.0	2.8	1		12/27/18 15:34	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 15:34	107-13-1	
Benzene	**252**	ug/L	1.0	0.24	1		12/27/18 15:34	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 15:34	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 15:34	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 15:34	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 15:34	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 15:34	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 15:34	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 15:34	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 15:34	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 15:34	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 15:34	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 15:34	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 15:34	74-95-3	
Ethylbenzene	**22.2**	ug/L	1.0	0.31	1		12/27/18 15:34	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/27/18 15:34	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 15:34	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 15:34	75-09-2	
Naphthalene	**9.4**	ug/L	2.0	0.82	1		12/27/18 15:34	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/27/18 15:34	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 15:34	127-18-4	
Toluene	**285**	ug/L	1.0	0.30	1		12/27/18 15:34	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 15:34	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 15:34	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/27/18 15:34	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 15:34	75-01-4	
Xylene (Total)	**177**	ug/L	3.0	0.78	1		12/27/18 15:34	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 15:34	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 15:34	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274557

Sample: CO41-PZM001 **Lab ID: 30274557010** Collected: 12/14/18 15:00 Received: 12/14/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 15:34	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 15:34	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/27/18 15:34	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	79-129		1		12/27/18 15:34	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%.	80-120		1		12/27/18 15:34	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		12/27/18 15:34	2037-26-5	
Dibromofluoromethane (S)	93	%.	80-120		1		12/27/18 15:34	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274557

QC Batch: 325311 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30274557001, 30274557002, 30274557003, 30274557004, 30274557005, 30274557006, 30274557007, 30274557008, 30274557009, 30274557010

METHOD BLANK: 1585415 Matrix: Water
Associated Lab Samples: 30274557001, 30274557002, 30274557003, 30274557004, 30274557005, 30274557006, 30274557007, 30274557008, 30274557009, 30274557010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/27/18 13:08	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/27/18 13:08	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/27/18 13:08	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/27/18 13:08	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/27/18 13:08	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/27/18 13:08	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/27/18 13:08	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/27/18 13:08	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/27/18 13:08	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/27/18 13:08	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/27/18 13:08	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/27/18 13:08	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/27/18 13:08	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/27/18 13:08	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/27/18 13:08	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/27/18 13:08	
Acetone	ug/L	10.0 U	10.0	2.8	12/27/18 13:08	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/27/18 13:08	
Benzene	ug/L	1.0 U	1.0	0.24	12/27/18 13:08	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/27/18 13:08	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/27/18 13:08	
Bromoform	ug/L	1.0 U	1.0	0.32	12/27/18 13:08	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/27/18 13:08	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/27/18 13:08	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/27/18 13:08	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/27/18 13:08	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/27/18 13:08	
Chloroform	ug/L	1.0 U	1.0	0.30	12/27/18 13:08	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/27/18 13:08	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/27/18 13:08	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/27/18 13:08	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/27/18 13:08	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/27/18 13:08	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/27/18 13:08	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/27/18 13:08	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/27/18 13:08	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	12/27/18 13:08	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/27/18 13:08	
Styrene	ug/L	1.0 U	1.0	0.17	12/27/18 13:08	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/27/18 13:08	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274557

METHOD BLANK: 1585415 Matrix: Water

Associated Lab Samples: 30274557001, 30274557002, 30274557003, 30274557004, 30274557005, 30274557006, 30274557007, 30274557008, 30274557009, 30274557010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	12/27/18 13:08	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/27/18 13:08	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/27/18 13:08	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/27/18 13:08	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/27/18 13:08	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/27/18 13:08	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/27/18 13:08	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/27/18 13:08	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/27/18 13:08	
1,2-Dichloroethane-d4 (S)	%.	100	80-120		12/27/18 13:08	
4-Bromofluorobenzene (S)	%.	98	79-129		12/27/18 13:08	
Dibromofluoromethane (S)	%.	99	80-120		12/27/18 13:08	
Toluene-d8 (S)	%.	95	80-120		12/27/18 13:08	

LABORATORY CONTROL SAMPLE: 1585416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.6	88	70-130	
1,1,1-Trichloroethane	ug/L	20	17.9	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	65-127	
1,1,2-Trichloroethane	ug/L	20	18.9	94	70-130	
1,1-Dichloroethane	ug/L	20	18.5	92	70-130	
1,1-Dichloroethene	ug/L	20	19.1	95	70-130	
1,2,3-Trichloropropane	ug/L	20	18.6	93	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.0	85	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.7	94	70-130	
1,2-Dichlorobenzene	ug/L	20	18.7	94	70-130	
1,2-Dichloroethane	ug/L	20	16.9	84	70-130	
1,2-Dichloropropane	ug/L	20	19.4	97	70-130	
1,4-Dichlorobenzene	ug/L	20	19.1	95	70-130	
2-Butanone (MEK)	ug/L	20	15.6	78	72-170	
2-Hexanone	ug/L	20	15.8	79	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	15.7	78	66-150	
Acetone	ug/L	20	15.2	76	30-179	
Acrylonitrile	ug/L	20	16.7	83	48-172	
Benzene	ug/L	20	19.3	97	70-130	
Bromochloromethane	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	18.5	92	70-130	
Bromoform	ug/L	20	15.7	78	70-130	
Bromomethane	ug/L	20	18.4	92	47-174	
Carbon disulfide	ug/L	20	13.3	67	43-133	
Carbon tetrachloride	ug/L	20	17.5	88	56-143	
Chlorobenzene	ug/L	20	19.3	97	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274557

LABORATORY CONTROL SAMPLE: 1585416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	22.4	112	67-139	
Chloroform	ug/L	20	17.6	88	70-130	
Chloromethane	ug/L	20	20.4	102	57-138	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Dibromochloromethane	ug/L	20	17.1	85	70-130	
Dibromomethane	ug/L	20	19.5	97	70-130	
Ethylbenzene	ug/L	20	19.0	95	70-130	
Iodomethane	ug/L	20	8.0J	40	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	16.6	83	70-130	
Methylene Chloride	ug/L	20	18.5	92	55-144	
Naphthalene	ug/L	20	19.0	95	70-130	
Styrene	ug/L	20	19.2	96	70-130	
Tetrachloroethene	ug/L	20	19.8	99	70-130	
Toluene	ug/L	20	18.7	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.4	87	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	13.3	67	27-116	
Trichloroethene	ug/L	20	18.7	94	70-130	
Trichlorofluoromethane	ug/L	20	25.8	129	60-148	
Vinyl acetate	ug/L	20	13.6	68	30-181	
Vinyl chloride	ug/L	20	24.7	123	70-130	
Xylene (Total)	ug/L	60	57.3	95	70-130	
1,2-Dichloroethane-d4 (S)	%.			91	80-120	
4-Bromofluorobenzene (S)	%.			101	79-129	
Dibromofluoromethane (S)	%.			94	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1585574 1585575

Parameter	Units	30274557007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.2	16.1	76	81	51-124	6	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	16.6	17.5	83	87	79-129	5	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	15.6	16.3	78	81	57-118	4	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.8	18.1	84	91	68-117	7	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	17.6	18.4	88	92	74-119	5	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	18.8	19.8	94	99	63-126	6	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	16.4	17.5	82	88	56-129	7	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	13.1	14.5	66	72	53-120	10	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	16.0	17.5	80	88	69-124	9	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.6	17.4	83	87	72-119	5	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.0	16.1	75	81	69-116	7	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.4	18.6	87	93	63-118	6	30	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274557

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1585574			1585575							
Parameter	Units	30274557007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.1	18.2	85	91	72-118	6	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	14.9	14.1	75	71	72-168	6	30	ML
2-Hexanone	ug/L	10.0 U	20	20	14.0	14.5	70	72	66-143	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	15.1	15.0	75	75	67-145	0	30	
Acetone	ug/L	3.1J	20	20	17.4	18.5	71	77	15-175	6	30	
Acrylonitrile	ug/L	4.0 U	20	20	14.9	15.7	75	78	36-165	5	30	
Benzene	ug/L	0.45J	20	20	21.4	20.6	105	101	67-121	4	30	
Bromochloromethane	ug/L	1.0 U	20	20	19.0	19.9	95	99	62-128	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	15.7	17.1	79	85	66-127	8	30	
Bromoform	ug/L	1.0 U	20	20	11.6	12.2	58	61	71-127	5	30	ML
Bromomethane	ug/L	1.0 U	20	20	3.4	4.5	17	23	10-156	27	30	
Carbon disulfide	ug/L	1.0 U	20	20	11.8	12.1	59	61	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	15.6	16.2	78	81	69-134	4	30	
Chlorobenzene	ug/L	1.0 U	20	20	18.3	18.8	92	94	69-119	3	30	
Chloroethane	ug/L	1.0 U	20	20	25.7	29.4	128	147	60-156	14	30	
Chloroform	ug/L	1.0 U	20	20	16.0	17.0	80	85	69-115	6	30	
Chloromethane	ug/L	1.0 U	20	20	18.1	18.7	91	94	52-145	3	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.5	17.5	82	87	65-120	6	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.6	16.6	78	83	57-125	6	30	
Dibromochloromethane	ug/L	1.0 U	20	20	13.7	14.8	69	74	64-131	8	30	
Dibromomethane	ug/L	1.0 U	20	20	17.4	18.1	87	91	56-133	4	30	
Ethylbenzene	ug/L	1.0 U	20	20	17.8	18.5	89	92	70-127	3	30	
Iodomethane	ug/L	50.0 U	20	20	2.0J	3.0J	10	15	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	15.3	15.8	77	79	79-135	3	30	ML
Methylene Chloride	ug/L	1.0 U	20	20	17.5	18.3	87	92	54-133	5	30	
Naphthalene	ug/L	2.0 U	20	20	17.1	18.2	85	91	62-131	6	30	
Styrene	ug/L	1.0 U	20	20	17.3	18.1	86	90	65-121	4	30	
Tetrachloroethene	ug/L	1.0 U	20	20	18.5	18.9	92	95	77-125	2	30	
Toluene	ug/L	1.0 U	20	20	19.1	19.0	95	95	77-125	0	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.2	18.3	86	92	70-119	6	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.5	15.4	73	77	52-125	6	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	6.0	6.1	30	31	13-100	2	30	
Trichloroethene	ug/L	1.0 U	20	20	17.4	18.2	87	91	74-128	5	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	27.5	25.8	137	129	54-164	6	30	
Vinyl acetate	ug/L	10.0 U	20	20	11.3	10.6	56	53	15-173	6	30	
Vinyl chloride	ug/L	1.0 U	20	20	24.5	25.2	122	126	60-131	3	30	
Xylene (Total)	ug/L	3.0 U	60	60	54.0	56.4	90	94	69-128	4	30	
1,2-Dichloroethane-d4 (S)	%.						92	95	80-120			
4-Bromofluorobenzene (S)	%.						102	100	79-129			
Dibromofluoromethane (S)	%.						97	97	80-120			
Toluene-d8 (S)	%.						99	99	80-120			

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REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30274557

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30274557

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30274557001	**Trip Blank**	EPA 8260B	325311		
30274557002	**CO39-PZM042**	EPA 8260B	325311		
30274557003	**CO39-PZM007**	EPA 8260B	325311		
30274557004	**CO36-PZM008**	EPA 8260B	325311		
30274557005	**CO36-PZM043**	EPA 8260B	325311		
30274557006	**CO38-PZM006**	EPA 8260B	325311		
30274557007	**CO38-PZM043**	EPA 8260B	325311		
30274557008	**CO40-PZM008**	EPA 8260B	325311		
30274557009	**CO41-PZM036**	EPA 8260B	325311		
30274557010	**CO41-PZM001**	EPA 8260B	325311		

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

30274557

Page: 1 of 1

Section A — Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056	Fax:
Requested Due Date/TAT:	5 Day

Section B — Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	180227m-1-2

Section C — Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D — Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

WO#: 30274557

30274557

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOC + NAPH by 8260	Residual	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			12/4/18	—		2				2					X		001
2	C039-PZM042	WT					910		3				3					X		002
3	C039-PZM007	WT					935		3				3					X		003
4	C036-PZM008	WT					1020		3				3					X		004
5	C036-PZM043	WT					1050		3				3					X		005
6	C038-PZM006	WT					1140		3				3					X		006
7	C038-PZM043	WT					1210		3				3					X		007
8	C040-PZM008	WT					1340		3				3					X		008
9	C041-PZM036	WT					1420		3				3					X		009
10	C041-PZM001	WT					1500		3				3					X		010
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No data pkgs		12/4/18	1552	David L Williamson Pace	12/4/18	1552				
	David L Williamson Pace	12/4/18	1950		12/4/18	1955		Y		
		12-14-18	2345	Alyssa R Mahoney Pace	12/14/18	2345	2.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12-14-18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

30274557

Face Analytical

Client Name: Sparrows Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other

Label AKA
LIMS Login AKA

Tracking #:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 10 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.7 °C Correction Factor: +0.0 °C Final Temp: 2.7 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: AKA 12/15/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA), coliform, TOC, O&G, Phenolics			✓ ✓	16. Initial when completed: AKA Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present: Trip Blank Custody Seals Present	✓ ✓			18.
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 31, 2018

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30274703

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30274703

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30274703001	**Trip Blank**	Water	12/17/18 00:00	12/17/18 23:25
30274703002	**CO027-PZM046**	Water	12/17/18 14:00	12/17/18 23:25
30274703003	**CO027-PZM012**	Water	12/17/18 14:25	12/17/18 23:25
30274703004	**CO37-PZM038**	Water	12/17/18 14:55	12/17/18 23:25
30274703005	**CO042-PZM004**	Water	12/17/18 15:40	12/17/18 23:25

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30274703

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30274703001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30274703002	**CO027-PZM046**	EPA 8260B	LEL	53	PASI-PA
30274703003	**CO027-PZM012**	EPA 8260B	LEL	53	PASI-PA
30274703004	**CO37-PZM038**	EPA 8260B	LEL	53	PASI-PA
30274703005	**CO042-PZM004**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: Trip Blank **Lab ID: 30274703001** Collected: 12/17/18 00:00 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 14:09	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 14:09	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 14:09	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 14:09	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 14:09	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 14:09	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 14:09	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		12/27/18 14:09	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 14:09	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 14:09	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 14:09	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 14:09	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 14:09	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		12/27/18 14:09	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		12/27/18 14:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		12/27/18 14:09	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		12/27/18 14:09	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 14:09	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/27/18 14:09	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 14:09	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 14:09	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 14:09	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 14:09	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 14:09	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 14:09	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 14:09	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 14:09	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 14:09	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 14:09	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 14:09	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 14:09	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 14:09	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		12/27/18 14:09	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 14:09	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 14:09	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/27/18 14:09	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/27/18 14:09	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 14:09	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 14:09	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 14:09	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 14:09	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		12/27/18 14:09	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 14:09	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		12/27/18 14:09	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 14:09	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 14:09	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: Trip Blank **Lab ID: 30274703001** Collected: 12/17/18 00:00 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 14:09	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 14:09	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		12/27/18 14:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	79-129		1		12/27/18 14:09	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		12/27/18 14:09	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		12/27/18 14:09	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		12/27/18 14:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO027-PZM046 **Lab ID: 30274703002** Collected: 12/17/18 14:00 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 20:39	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:39	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:39	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:39	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/27/18 20:39	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:39	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/27/18 20:39	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/27/18 20:39	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:39	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/27/18 20:39	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:39	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:39	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 20:39	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/27/18 20:39	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/27/18 20:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/27/18 20:39	108-10-1	
Acetone	**61.2**	ug/L	50.0	14.2	5		12/27/18 20:39	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/27/18 20:39	107-13-1	
Benzene	**297000**	ug/L	1000	240	1000		12/27/18 21:04	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:39	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:39	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:39	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/18 20:39	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:39	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 20:39	56-23-5	
Chlorobenzene	**2.5J**	ug/L	5.0	0.75	5		12/27/18 20:39	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 20:39	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/27/18 20:39	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/27/18 20:39	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:39	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 20:39	74-95-3	
Ethylbenzene	**789**	ug/L	5.0	1.6	5		12/27/18 20:39	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/27/18 20:39	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:39	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/27/18 20:39	75-09-2	
Naphthalene	**1360**	ug/L	10.0	4.1	5		12/27/18 20:39	91-20-3	
Styrene	**160**	ug/L	5.0	0.85	5		12/27/18 20:39	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:39	127-18-4	
Toluene	**59400**	ug/L	1000	300	1000		12/27/18 21:04	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 20:39	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 20:39	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/27/18 20:39	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 20:39	75-01-4	
Xylene (Total)	**16300**	ug/L	3000	780	1000		12/27/18 21:04	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/27/18 20:39	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 20:39	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO027-PZM046 **Lab ID: 30274703002** Collected: 12/17/18 14:00 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/27/18 20:39	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/27/18 20:39	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/27/18 20:39	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	79-129		5		12/27/18 20:39	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%.	80-120		5		12/27/18 20:39	17060-07-0	
Toluene-d8 (S)	102	%.	80-120		5		12/27/18 20:39	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		5		12/27/18 20:39	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO027-PZM012 **Lab ID: 30274703003** Collected: 12/17/18 14:25 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 19:51	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:51	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 19:51	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:51	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/27/18 19:51	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:51	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/27/18 19:51	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/27/18 19:51	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:51	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/27/18 19:51	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 19:51	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:51	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/27/18 19:51	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/27/18 19:51	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/27/18 19:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/27/18 19:51	108-10-1	
Acetone	**42.9J**	ug/L	50.0	14.2	5		12/27/18 19:51	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/27/18 19:51	107-13-1	
Benzene	**4670**	ug/L	100	24.0	100		12/27/18 20:15	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 19:51	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:51	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:51	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/27/18 19:51	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:51	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/27/18 19:51	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/27/18 19:51	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/27/18 19:51	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/27/18 19:51	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/27/18 19:51	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:51	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 19:51	74-95-3	
Ethylbenzene	**37.7**	ug/L	5.0	1.6	5		12/27/18 19:51	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/27/18 19:51	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 19:51	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/27/18 19:51	75-09-2	
Naphthalene	**293**	ug/L	10.0	4.1	5		12/27/18 19:51	91-20-3	
Styrene	**32.8**	ug/L	5.0	0.85	5		12/27/18 19:51	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:51	127-18-4	
Toluene	**744**	ug/L	5.0	1.5	5		12/27/18 19:51	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/27/18 19:51	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/27/18 19:51	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/27/18 19:51	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/27/18 19:51	75-01-4	
Xylene (Total)	**327**	ug/L	15.0	3.9	5		12/27/18 19:51	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/27/18 19:51	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/27/18 19:51	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO027-PZM012 **Lab ID: 30274703003** Collected: 12/17/18 14:25 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/27/18 19:51	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/27/18 19:51	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/27/18 19:51	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		5		12/27/18 19:51	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%.	80-120		5		12/27/18 19:51	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		5		12/27/18 19:51	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		12/27/18 19:51	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO37-PZM038 **Lab ID: 30274703004** Collected: 12/17/18 14:55 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/28/18 21:20	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/28/18 21:20	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/28/18 21:20	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/28/18 21:20	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/28/18 21:20	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/28/18 21:20	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/28/18 21:20	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/28/18 21:20	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/28/18 21:20	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/28/18 21:20	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/28/18 21:20	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/28/18 21:20	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/28/18 21:20	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/28/18 21:20	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/28/18 21:20	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/28/18 21:20	108-10-1	
Acetone	**43.9J**	ug/L	50.0	14.2	5		12/28/18 21:20	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/28/18 21:20	107-13-1	
Benzene	**12300**	ug/L	200	48.0	200		12/28/18 21:44	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/28/18 21:20	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/28/18 21:20	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/28/18 21:20	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/28/18 21:20	74-83-9	CL
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/28/18 21:20	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/28/18 21:20	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/28/18 21:20	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/28/18 21:20	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/28/18 21:20	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/28/18 21:20	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/28/18 21:20	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/28/18 21:20	74-95-3	
Ethylbenzene	**243**	ug/L	5.0	1.6	5		12/28/18 21:20	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/28/18 21:20	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/28/18 21:20	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		12/28/18 21:20	75-09-2	
Naphthalene	**1370**	ug/L	10.0	4.1	5		12/28/18 21:20	91-20-3	
Styrene	**377**	ug/L	5.0	0.85	5		12/28/18 21:20	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/28/18 21:20	127-18-4	
Toluene	**7550**	ug/L	200	60.0	200		12/28/18 21:44	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/28/18 21:20	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/28/18 21:20	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/28/18 21:20	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/28/18 21:20	75-01-4	
Xylene (Total)	**2040**	ug/L	15.0	3.9	5		12/28/18 21:20	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/28/18 21:20	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/28/18 21:20	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO37-PZM038 **Lab ID: 30274703004** Collected: 12/17/18 14:55 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/28/18 21:20	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/28/18 21:20	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/28/18 21:20	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	79-129		5		12/28/18 21:20	460-00-4	
1,2-Dichloroethane-d4 (S)	87	%.	80-120		5		12/28/18 21:20	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		12/28/18 21:20	2037-26-5	
Dibromofluoromethane (S)	89	%.	80-120		5		12/28/18 21:20	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO042-PZM004 **Lab ID: 30274703005** Collected: 12/17/18 15:40 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/27/18 19:02	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 19:02	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 19:02	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 19:02	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/27/18 19:02	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 19:02	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/27/18 19:02	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/27/18 19:02	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 19:02	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/27/18 19:02	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 19:02	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/27/18 19:02	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/27/18 19:02	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/27/18 19:02	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/27/18 19:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/27/18 19:02	108-10-1	
Acetone	**23.6**	ug/L	10.0	2.8	1		12/27/18 19:02	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/27/18 19:02	107-13-1	
Benzene	**5.8**	ug/L	1.0	0.24	1		12/27/18 19:02	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 19:02	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/27/18 19:02	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 19:02	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/27/18 19:02	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 19:02	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/27/18 19:02	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/27/18 19:02	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/27/18 19:02	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/27/18 19:02	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/27/18 19:02	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/27/18 19:02	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/27/18 19:02	74-95-3	
Ethylbenzene	**5.1**	ug/L	1.0	0.31	1		12/27/18 19:02	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/27/18 19:02	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/27/18 19:02	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/27/18 19:02	75-09-2	
Naphthalene	**5.9**	ug/L	2.0	0.82	1		12/27/18 19:02	91-20-3	
Styrene	**4.2**	ug/L	1.0	0.17	1		12/27/18 19:02	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/27/18 19:02	127-18-4	
Toluene	**10.0**	ug/L	1.0	0.30	1		12/27/18 19:02	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/27/18 19:02	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/27/18 19:02	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/27/18 19:02	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/27/18 19:02	75-01-4	
Xylene (Total)	**39.5**	ug/L	3.0	0.78	1		12/27/18 19:02	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/27/18 19:02	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/27/18 19:02	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274703

Sample: CO042-PZM004 **Lab ID: 30274703005** Collected: 12/17/18 15:40 Received: 12/17/18 23:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/27/18 19:02	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/27/18 19:02	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/27/18 19:02	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	79-129		1		12/27/18 19:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		12/27/18 19:02	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		12/27/18 19:02	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		1		12/27/18 19:02	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

QC Batch: 325314 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30274703001, 30274703002, 30274703003, 30274703005

METHOD BLANK: 1585417 Matrix: Water
Associated Lab Samples: 30274703001, 30274703002, 30274703003, 30274703005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/27/18 13:20	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/27/18 13:20	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/27/18 13:20	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/27/18 13:20	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/27/18 13:20	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/27/18 13:20	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/27/18 13:20	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/27/18 13:20	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/27/18 13:20	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/27/18 13:20	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/27/18 13:20	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/27/18 13:20	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/27/18 13:20	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/27/18 13:20	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/27/18 13:20	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/27/18 13:20	
Acetone	ug/L	10.0 U	10.0	2.8	12/27/18 13:20	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/27/18 13:20	
Benzene	ug/L	1.0 U	1.0	0.24	12/27/18 13:20	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/27/18 13:20	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/27/18 13:20	
Bromoform	ug/L	1.0 U	1.0	0.32	12/27/18 13:20	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/27/18 13:20	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/27/18 13:20	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/27/18 13:20	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/27/18 13:20	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/27/18 13:20	
Chloroform	ug/L	1.0 U	1.0	0.30	12/27/18 13:20	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/27/18 13:20	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/27/18 13:20	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/27/18 13:20	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/27/18 13:20	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/27/18 13:20	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/27/18 13:20	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/27/18 13:20	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/27/18 13:20	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	12/27/18 13:20	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/27/18 13:20	
Styrene	ug/L	1.0 U	1.0	0.17	12/27/18 13:20	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/27/18 13:20	
Toluene	ug/L	1.0 U	1.0	0.30	12/27/18 13:20	

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(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

METHOD BLANK: 1585417 Matrix: Water
Associated Lab Samples: 30274703001, 30274703002, 30274703003, 30274703005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/27/18 13:20	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/27/18 13:20	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/27/18 13:20	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/27/18 13:20	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/27/18 13:20	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/27/18 13:20	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/27/18 13:20	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/27/18 13:20	
1,2-Dichloroethane-d4 (S)	%.	101	80-120		12/27/18 13:20	
4-Bromofluorobenzene (S)	%.	102	79-129		12/27/18 13:20	
Dibromofluoromethane (S)	%.	100	80-120		12/27/18 13:20	
Toluene-d8 (S)	%.	97	80-120		12/27/18 13:20	

LABORATORY CONTROL SAMPLE: 1585418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.0	90	70-130	
1,1,1-Trichloroethane	ug/L	20	17.9	89	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	65-127	
1,1,2-Trichloroethane	ug/L	20	18.5	92	70-130	
1,1-Dichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethene	ug/L	20	19.4	97	70-130	
1,2,3-Trichloropropane	ug/L	20	18.8	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	15.8	79	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.3	92	70-130	
1,2-Dichlorobenzene	ug/L	20	18.4	92	70-130	
1,2-Dichloroethane	ug/L	20	16.4	82	70-130	
1,2-Dichloropropane	ug/L	20	19.3	96	70-130	
1,4-Dichlorobenzene	ug/L	20	18.6	93	70-130	
2-Butanone (MEK)	ug/L	20	14.4	72	72-170	
2-Hexanone	ug/L	20	15.6	78	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	15.6	78	66-150	
Acetone	ug/L	20	14.4	72	30-179	
Acrylonitrile	ug/L	20	16.6	83	48-172	
Benzene	ug/L	20	19.3	96	70-130	
Bromochloromethane	ug/L	20	20.0	100	70-130	
Bromodichloromethane	ug/L	20	18.6	93	70-130	
Bromoform	ug/L	20	15.6	78	70-130	
Bromomethane	ug/L	20	16.6	83	47-174	
Carbon disulfide	ug/L	20	13.0	65	43-133	
Carbon tetrachloride	ug/L	20	17.4	87	56-143	
Chlorobenzene	ug/L	20	19.4	97	70-130	
Chloroethane	ug/L	20	23.7	119	67-139	
Chloroform	ug/L	20	17.1	86	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

LABORATORY CONTROL SAMPLE: 1585418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.6	103	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	17.2	86	70-130	
Dibromomethane	ug/L	20	18.3	91	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
Iodomethane	ug/L	20	7.6J	38	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	16.5	83	70-130	
Methylene Chloride	ug/L	20	16.7	83	55-144	
Naphthalene	ug/L	20	17.9	89	70-130	
Styrene	ug/L	20	19.4	97	70-130	
Tetrachloroethene	ug/L	20	20.1	101	70-130	
Toluene	ug/L	20	19.1	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.2	71	27-116	
Trichloroethene	ug/L	20	19.0	95	70-130	
Trichlorofluoromethane	ug/L	20	24.7	124	60-148	
Vinyl acetate	ug/L	20	12.3	62	30-181	
Vinyl chloride	ug/L	20	25.5	128	70-130	
Xylene (Total)	ug/L	60	59.7	100	70-130	
1,2-Dichloroethane-d4 (S)	%.			89	80-120	
4-Bromofluorobenzene (S)	%.			103	79-129	
Dibromofluoromethane (S)	%.			91	80-120	
Toluene-d8 (S)	%.			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1585589 1585590

Parameter	Units	30274996003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	16.2	14.7	81	74	51-124	10	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.5	16.5	92	83	79-129	11	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.3	15.7	87	79	57-118	10	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.4	16.5	92	82	68-117	11	30	
1,1-Dichloroethane	ug/L	ND	20	20	19.3	17.5	97	87	74-119	10	30	
1,1-Dichloroethene	ug/L	ND	20	20	20.3	18.3	102	92	63-126	10	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.1	16.4	90	82	56-129	10	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	14.5	13.2	73	66	53-120	10	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.3	16.2	91	81	69-124	12	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.2	16.4	91	82	72-119	10	30	
1,2-Dichloroethane	ug/L	ND	20	20	16.8	15.1	84	75	69-116	11	30	
1,2-Dichloropropane	ug/L	ND	20	20	18.9	17.4	95	87	63-118	9	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	16.5	92	82	72-118	11	30	
2-Butanone (MEK)	ug/L	ND	20	20	15.8	15.7	79	78	72-168	1	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1585589 1585590

Parameter	Units	30274996003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	20	20	15.1	14.3	76	72	66-143	5	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.4	14.3	77	72	67-145	7	30	
Acetone	ug/L	ND	20	20	15.6	13.5	78	68	15-175	14	30	
Acrylonitrile	ug/L	ND	20	20	15.9	16.0	80	80	36-165	0	30	
Benzene	ug/L	ND	20	20	22.7	19.2	114	96	67-121	17	30	
Bromochloromethane	ug/L	ND	20	20	20.0	17.7	100	88	62-128	12	30	
Bromodichloromethane	ug/L	ND	20	20	17.8	16.3	89	81	66-127	9	30	
Bromoform	ug/L	ND	20	20	13.1	12.1	65	60	71-127	8	30	ML
Bromomethane	ug/L	ND	20	20	8.2	8.2	41	41	10-156	0	30	
Carbon disulfide	ug/L	ND	20	20	13.0	12.2	65	61	45-131	6	30	
Carbon tetrachloride	ug/L	ND	20	20	17.2	15.6	86	78	69-134	10	30	
Chlorobenzene	ug/L	ND	20	20	19.3	17.7	96	89	69-119	8	30	
Chloroethane	ug/L	ND	20	20	29.6	27.4	148	137	60-156	8	30	
Chloroform	ug/L	ND	20	20	17.4	15.7	87	78	69-115	10	30	
Chloromethane	ug/L	ND	20	20	18.8	17.2	94	86	52-145	9	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.2	16.5	91	83	65-120	10	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.4	15.9	87	79	57-125	9	30	
Dibromochloromethane	ug/L	ND	20	20	15.4	13.9	77	70	64-131	10	30	
Dibromomethane	ug/L	ND	20	20	18.7	16.6	94	83	56-133	12	30	
Ethylbenzene	ug/L	ND	20	20	19.3	17.7	97	89	70-127	9	30	
Iodomethane	ug/L	ND	20	20	3.0J	4.4J	15	22	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	ND	20	20	16.5	15.0	83	75	79-135	10	30	ML
Methylene Chloride	ug/L	ND	20	20	17.4	14.9	87	74	54-133	16	30	
Naphthalene	ug/L	ND	20	20	17.3	15.7	87	78	62-131	10	30	
Styrene	ug/L	ND	20	20	18.6	17.0	93	85	65-121	10	30	
Tetrachloroethene	ug/L	ND	20	20	20.1	18.0	100	90	77-125	11	30	
Toluene	ug/L	ND	20	20	20.5	17.8	102	89	77-125	14	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.3	17.3	96	86	70-119	11	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.7	15.1	83	75	52-125	10	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	9.7	8.6	48	43	13-100	12	30	
Trichloroethene	ug/L	ND	20	20	19.3	17.9	97	89	74-128	8	30	
Trichlorofluoromethane	ug/L	ND	20	20	26.2	23.7	131	119	54-164	10	30	
Vinyl acetate	ug/L	ND	20	20	11.2	10.3	56	52	15-173	8	30	
Vinyl chloride	ug/L	ND	20	20	24.9	23.1	124	115	60-131	7	30	
Xylene (Total)	ug/L	ND	60	60	59.4	53.9	99	90	69-128	10	30	
1,2-Dichloroethane-d4 (S)	%.						89	90	80-120			
4-Bromofluorobenzene (S)	%.						105	103	79-129			
Dibromofluoromethane (S)	%.						95	94	80-120			
Toluene-d8 (S)	%.						99	99	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

QC Batch: 325457 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30274703004

METHOD BLANK: 1585900 Matrix: Water
Associated Lab Samples: 30274703004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/28/18 12:50	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/28/18 12:50	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/28/18 12:50	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/28/18 12:50	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/28/18 12:50	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/28/18 12:50	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/28/18 12:50	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/28/18 12:50	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/28/18 12:50	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/28/18 12:50	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/28/18 12:50	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/28/18 12:50	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/28/18 12:50	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/28/18 12:50	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/28/18 12:50	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/28/18 12:50	
Acetone	ug/L	10.0 U	10.0	2.8	12/28/18 12:50	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/28/18 12:50	
Benzene	ug/L	1.0 U	1.0	0.24	12/28/18 12:50	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/28/18 12:50	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/28/18 12:50	
Bromoform	ug/L	1.0 U	1.0	0.32	12/28/18 12:50	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/28/18 12:50	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/28/18 12:50	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/28/18 12:50	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/28/18 12:50	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/28/18 12:50	
Chloroform	ug/L	1.0 U	1.0	0.30	12/28/18 12:50	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/28/18 12:50	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/28/18 12:50	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/28/18 12:50	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/28/18 12:50	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/28/18 12:50	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/28/18 12:50	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/28/18 12:50	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/28/18 12:50	
Methylene Chloride	ug/L	1.0 U	1.0	0.77	12/28/18 12:50	
Naphthalene	ug/L	2.0 U	2.0	0.82	12/28/18 12:50	
Styrene	ug/L	1.0 U	1.0	0.17	12/28/18 12:50	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/28/18 12:50	
Toluene	ug/L	1.0 U	1.0	0.30	12/28/18 12:50	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

METHOD BLANK: 1585900 Matrix: Water
Associated Lab Samples: 30274703004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/28/18 12:50	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/28/18 12:50	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/28/18 12:50	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/28/18 12:50	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/28/18 12:50	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/28/18 12:50	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/28/18 12:50	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/28/18 12:50	
1,2-Dichloroethane-d4 (S)	%.	94	80-120		12/28/18 12:50	
4-Bromofluorobenzene (S)	%.	103	79-129		12/28/18 12:50	
Dibromofluoromethane (S)	%.	101	80-120		12/28/18 12:50	
Toluene-d8 (S)	%.	95	80-120		12/28/18 12:50	

LABORATORY CONTROL SAMPLE: 1585901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.2	86	70-130	
1,1,1-Trichloroethane	ug/L	20	17.4	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	88	65-127	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	18.3	92	70-130	
1,1-Dichloroethene	ug/L	20	19.4	97	70-130	
1,2,3-Trichloropropane	ug/L	20	18.1	90	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.4	82	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.1	91	70-130	
1,2-Dichlorobenzene	ug/L	20	18.5	93	70-130	
1,2-Dichloroethane	ug/L	20	15.9	80	70-130	
1,2-Dichloropropane	ug/L	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.1	91	70-130	
2-Butanone (MEK)	ug/L	20	14.5	73	72-170	
2-Hexanone	ug/L	20	16.2	81	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.1	81	66-150	
Acetone	ug/L	20	15.2	76	30-179	
Acrylonitrile	ug/L	20	17.0	85	48-172	
Benzene	ug/L	20	19.0	95	70-130	
Bromochloromethane	ug/L	20	19.7	98	70-130	
Bromodichloromethane	ug/L	20	18.2	91	70-130	
Bromoform	ug/L	20	15.3	76	70-130	
Bromomethane	ug/L	20	12.2	61	47-174	CL
Carbon disulfide	ug/L	20	12.7	64	43-133	
Carbon tetrachloride	ug/L	20	17.6	88	56-143	
Chlorobenzene	ug/L	20	19.3	97	70-130	
Chloroethane	ug/L	20	23.1	116	67-139	
Chloroform	ug/L	20	17.0	85	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

LABORATORY CONTROL SAMPLE: 1585901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	18.6	93	57-138	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.1	86	70-130	
Dibromochloromethane	ug/L	20	17.2	86	70-130	
Dibromomethane	ug/L	20	18.5	93	70-130	
Ethylbenzene	ug/L	20	18.7	94	70-130	
Iodomethane	ug/L	20	6.7J	33	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	16.7	83	70-130	
Methylene Chloride	ug/L	20	16.9	84	55-144	
Naphthalene	ug/L	20	18.2	91	70-130	
Styrene	ug/L	20	18.7	93	70-130	
Tetrachloroethene	ug/L	20	19.1	96	70-130	
Toluene	ug/L	20	18.4	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.1	86	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	14.2	71	27-116	
Trichloroethene	ug/L	20	18.7	93	70-130	
Trichlorofluoromethane	ug/L	20	24.7	123	60-148	
Vinyl acetate	ug/L	20	11.3	57	30-181	
Vinyl chloride	ug/L	20	23.4	117	70-130	
Xylene (Total)	ug/L	60	56.5	94	70-130	
1,2-Dichloroethane-d4 (S)	%.			90	80-120	
4-Bromofluorobenzene (S)	%.			105	79-129	
Dibromofluoromethane (S)	%.			94	80-120	
Toluene-d8 (S)	%.			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586040 1586041

Parameter	Units	50212699004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	14.4	14.8	72	74	51-124	3	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	15.8	16.3	79	82	79-129	3	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.1	16.7	81	83	57-118	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.2	18.6	81	93	68-117	14	30	
1,1-Dichloroethane	ug/L	ND	20	20	16.8	17.6	84	88	74-119	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	17.6	18.4	88	92	63-126	5	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	15.4	16.8	77	84	56-129	9	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	12.3	13.7	61	68	53-120	11	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	15.4	16.5	77	83	69-124	7	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.9	16.9	80	85	72-119	6	30	
1,2-Dichloroethane	ug/L	ND	20	20	14.5	15.1	73	76	69-116	4	30	
1,2-Dichloropropane	ug/L	ND	20	20	16.8	17.4	84	87	63-118	4	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.2	16.8	81	84	72-118	3	30	
2-Butanone (MEK)	ug/L	ND	20	20	14.7	14.6	74	73	72-168	0	30	

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REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274703

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586040 1586041

Parameter	Units	50212699004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	20	20	14.0	13.9	70	70	66-143	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	14.7	15.1	74	75	67-145	2	30	
Acetone	ug/L	2.9J	20	20	16.2	14.4	66	57	15-175	12	30	
Acrylonitrile	ug/L	ND	20	20	15.4	15.3	77	76	36-165	1	30	
Benzene	ug/L	ND	20	20	17.3	18.1	86	91	67-121	5	30	
Bromochloromethane	ug/L	ND	20	20	17.6	19.1	88	96	62-128	8	30	
Bromodichloromethane	ug/L	ND	20	20	15.2	16.5	76	83	66-127	8	30	
Bromoform	ug/L	ND	20	20	11.1	12.2	56	61	71-127	10	30	ML
Bromomethane	ug/L	ND	20	20	5.8	6.5	29	32	10-156	11	30	CL
Carbon disulfide	ug/L	ND	20	20	11.8	11.5	59	57	45-131	3	30	
Carbon tetrachloride	ug/L	ND	20	20	15.2	16.3	76	82	69-134	7	30	
Chlorobenzene	ug/L	ND	20	20	17.5	17.6	87	88	69-119	1	30	
Chloroethane	ug/L	ND	20	20	34.7	37.1	173	185	60-156	7	30	MH
Chloroform	ug/L	ND	20	20	15.1	16.0	76	80	69-115	5	30	
Chloromethane	ug/L	ND	20	20	19.1	19.4	96	97	52-145	1	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	15.5	16.5	78	82	65-120	6	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	14.7	15.4	73	77	57-125	5	30	
Dibromochloromethane	ug/L	ND	20	20	13.3	14.3	66	72	64-131	8	30	
Dibromomethane	ug/L	ND	20	20	16.4	17.2	82	86	56-133	5	30	
Ethylbenzene	ug/L	ND	20	20	16.7	17.5	84	87	70-127	4	30	
Iodomethane	ug/L	ND	20	20	2.7J	4.0J	14	20	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	ND	20	20	15.2	15.3	76	76	79-135	1	30	ML
Methylene Chloride	ug/L	ND	20	20	14.6	15.7	73	79	54-133	8	30	
Naphthalene	ug/L	ND	20	20	15.7	16.9	78	85	62-131	8	30	
Styrene	ug/L	ND	20	20	16.0	16.8	80	84	65-121	5	30	
Tetrachloroethene	ug/L	ND	20	20	17.1	17.9	85	90	77-125	5	30	
Toluene	ug/L	ND	20	20	16.4	17.1	82	85	77-125	4	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	16.6	17.6	83	88	70-119	6	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.1	14.6	70	73	52-125	4	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	7.8	7.8	39	39	13-100	0	30	
Trichloroethene	ug/L	ND	20	20	16.6	17.7	83	88	74-128	6	30	
Trichlorofluoromethane	ug/L	ND	20	20	24.1	25.1	120	126	54-164	4	30	
Vinyl acetate	ug/L	ND	20	20	9.8J	10.1	49	51	15-173		30	
Vinyl chloride	ug/L	ND	20	20	23.8	24.8	119	124	60-131	4	30	
Xylene (Total)	ug/L	ND	60	60	49.7	52.3	83	87	69-128	5	30	
1,2-Dichloroethane-d4 (S)	%.						91	93	80-120			
4-Bromofluorobenzene (S)	%.						103	103	79-129			
Dibromofluoromethane (S)	%.						95	93	80-120			
Toluene-d8 (S)	%.						98	99	80-120			

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REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30274703

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30274703

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30274703001	**Trip Blank**	EPA 8260B	325314		
30274703002	**CO027-PZM046**	EPA 8260B	325314		
30274703003	**CO027-PZM012**	EPA 8260B	325314		
30274703004	**CO37-PZM038**	EPA 8260B	325457		
30274703005	**CO042-PZM004**	EPA 8260B	325314		

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	EnviroAnalytics Group
Address:	1600 Sparrows Point Blvd, Suite B2
	Sparrows Point, MD 21219
Email To:	jcalenda@enviroanalyticsgroup.com
Phone:	314-620-3056
Fax:	
Requested Due Date/TAT:	5 Day

Section B Required Project Information:

Report To:	James Calenda
Copy To:	Stewart Kabis
Purchase Order No.:	EAG-SPT-6989
Project Name:	COA IM GW Sampling
Project Number:	180227M-1-3

Section C Invoice Information:

Attention:	Laura Sargent
Company Name:	EnviroAnalytics Group
Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:	
Pace Project Manager:	Samantha Bayura
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			12/17/18	—		2				2						X		001
2	C0027-PZM046	WT	G				1400		3				3						X		002
3	C0027-PZM012	WT	G				1425		3				3						X		003
4	C037-PZM038	WT	G				1455		3				3						X		004
5	C042-PZM004	WT	G				1540		3				3						X		005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 30274703

30274703

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No data pkgs	[signature]	12/17/18	1610	David L Hillegan / Pace	12/17/18	1610				
	David L Hillegan / Pace	12/17/18	1940	[signature]	12-17-18	1945		Y		
	[signature]	12-17-18	2325	[signature]	12/17/18	2325	2.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12-17-18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: enviroanalytics

Project # # 30274703

Label: BJH
LIMS Login: BJH

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 2.8 °C Correction Factor: -0.1 °C Final Temp: 2.7 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: BJH 12/18/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA), coliform, TOC, O&G, Phenolics			✓	16. Initial when completed: BJH Date/time of preservation: Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18. pace provided
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 03, 2019

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30274827

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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Greensburg, PA 15601
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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30274827

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30274827001	**Trip Blank**	Water	12/18/18 00:00	12/18/18 22:15
30274827002	**CO24-PZM007**	Water	12/18/18 09:15	12/18/18 22:15
30274827003	**CO23-PZM008**	Water	12/18/18 11:17	12/18/18 22:15
30274827004	**CO59-PZP002**	Water	12/18/18 12:05	12/18/18 22:15
30274827005	**CO56-PZP001**	Water	12/18/18 13:00	12/18/18 22:15
30274827006	**CO55-PZM000**	Water	12/18/18 13:40	12/18/18 22:15
30274827007	**CO57-PZP002**	Water	12/18/18 14:20	12/18/18 22:15
30274827008	**CO58-PZM001**	Water	12/18/18 15:00	12/18/18 22:15

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30274827

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30274827001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30274827002	**CO24-PZM007**	EPA 8260B	LEL	53	PASI-PA
30274827003	**CO23-PZM008**	EPA 8260B	LEL	53	PASI-PA
30274827004	**CO59-PZP002**	EPA 8260B	LEL	53	PASI-PA
30274827005	**CO56-PZP001**	EPA 8260B	LEL	53	PASI-PA
30274827006	**CO55-PZM000**	EPA 8260B	LEL	53	PASI-PA
30274827007	**CO57-PZP002**	EPA 8260B	LEL	53	PASI-PA
30274827008	**CO58-PZM001**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: Trip Blank **Lab ID: 30274827001** Collected: 12/18/18 00:00 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 17:18	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:18	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:18	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:18	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 17:18	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:18	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 17:18	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		12/31/18 17:18	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:18	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 17:18	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:18	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 17:18	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:18	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		12/31/18 17:18	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		12/31/18 17:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		12/31/18 17:18	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		12/31/18 17:18	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 17:18	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/31/18 17:18	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:18	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 17:18	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:18	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 17:18	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:18	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:18	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 17:18	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 17:18	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:18	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 17:18	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 17:18	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 17:18	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:18	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		12/31/18 17:18	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 17:18	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 17:18	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/31/18 17:18	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 17:18	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:18	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:18	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 17:18	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:18	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		12/31/18 17:18	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:18	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		12/31/18 17:18	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 17:18	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:18	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: Trip Blank **Lab ID: 30274827001** Collected: 12/18/18 00:00 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 17:18	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 17:18	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		12/31/18 17:18	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	79-129		1		12/31/18 17:18	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		12/31/18 17:18	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/31/18 17:18	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		12/31/18 17:18	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO24-PZM007 **Lab ID: 30274827002** Collected: 12/18/18 09:15 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 20:35	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 20:35	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 20:35	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 20:35	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 20:35	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 20:35	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 20:35	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 20:35	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 20:35	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 20:35	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 20:35	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 20:35	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 20:35	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 20:35	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 20:35	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 20:35	108-10-1	
Acetone	**41.4**	ug/L	10.0	2.8	1		12/31/18 20:35	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 20:35	107-13-1	
Benzene	**1.8**	ug/L	1.0	0.24	1		12/31/18 20:35	71-43-2	C8
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 20:35	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 20:35	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 20:35	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 20:35	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 20:35	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 20:35	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 20:35	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 20:35	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 20:35	67-66-3	
Chloromethane	**1.1**	ug/L	1.0	0.68	1		12/31/18 20:35	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 20:35	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 20:35	74-95-3	
Ethylbenzene	**8.8**	ug/L	1.0	0.31	1		12/31/18 20:35	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 20:35	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 20:35	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 20:35	75-09-2	
Naphthalene	**4220**	ug/L	40.0	16.4	20		12/31/18 21:00	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 20:35	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 20:35	127-18-4	
Toluene	**2.1**	ug/L	1.0	0.30	1		12/31/18 20:35	108-88-3	C8
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 20:35	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 20:35	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 20:35	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 20:35	75-01-4	
Xylene (Total)	**10.9**	ug/L	3.0	0.78	1		12/31/18 20:35	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 20:35	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 20:35	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO24-PZM007 **Lab ID: 30274827002** Collected: 12/18/18 09:15 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 20:35	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 20:35	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 20:35	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%.	79-129		1		12/31/18 20:35	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	80-120		1		12/31/18 20:35	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		12/31/18 20:35	2037-26-5	
Dibromofluoromethane (S)	106	%.	80-120		1		12/31/18 20:35	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO23-PZM008 **Lab ID: 30274827003** Collected: 12/18/18 11:17 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**100 U**	ug/L	100	56.0	100		01/01/19 00:17	630-20-6	
1,1,1-Trichloroethane	**100 U**	ug/L	100	28.0	100		01/01/19 00:17	71-55-6	
1,1,2,2-Tetrachloroethane	**100 U**	ug/L	100	34.0	100		01/01/19 00:17	79-34-5	
1,1,2-Trichloroethane	**100 U**	ug/L	100	20.0	100		01/01/19 00:17	79-00-5	
1,1-Dichloroethane	**100 U**	ug/L	100	19.0	100		01/01/19 00:17	75-34-3	
1,1-Dichloroethene	**100 U**	ug/L	100	31.0	100		01/01/19 00:17	75-35-4	
1,2,3-Trichloropropane	**100 U**	ug/L	100	44.0	100		01/01/19 00:17	96-18-4	
1,2-Dibromo-3-chloropropane	**500 U**	ug/L	500	96.0	100		01/01/19 00:17	96-12-8	
1,2-Dibromoethane (EDB)	**100 U**	ug/L	100	20.0	100		01/01/19 00:17	106-93-4	
1,2-Dichlorobenzene	**100 U**	ug/L	100	50.0	100		01/01/19 00:17	95-50-1	
1,2-Dichloroethane	**100 U**	ug/L	100	25.0	100		01/01/19 00:17	107-06-2	
1,2-Dichloropropane	**100 U**	ug/L	100	21.0	100		01/01/19 00:17	78-87-5	
1,4-Dichlorobenzene	**100 U**	ug/L	100	20.0	100		01/01/19 00:17	106-46-7	
2-Butanone (MEK)	**1000 U**	ug/L	1000	210	100		01/01/19 00:17	78-93-3	
2-Hexanone	**1000 U**	ug/L	1000	66.0	100		01/01/19 00:17	591-78-6	
4-Methyl-2-pentanone (MIBK)	**1000 U**	ug/L	1000	37.0	100		01/01/19 00:17	108-10-1	
Acetone	**1000 U**	ug/L	1000	285	100		01/01/19 00:17	67-64-1	
Acrylonitrile	**400 U**	ug/L	400	63.0	100		01/01/19 00:17	107-13-1	
Benzene	**264**	ug/L	100	24.0	100		01/01/19 00:17	71-43-2	
Bromochloromethane	**100 U**	ug/L	100	34.0	100		01/01/19 00:17	74-97-5	
Bromodichloromethane	**100 U**	ug/L	100	29.0	100		01/01/19 00:17	75-27-4	
Bromoform	**100 U**	ug/L	100	32.0	100		01/01/19 00:17	75-25-2	
Bromomethane	**100 U**	ug/L	100	49.0	100		01/01/19 00:17	74-83-9	
Carbon disulfide	**100 U**	ug/L	100	32.0	100		01/01/19 00:17	75-15-0	
Carbon tetrachloride	**100 U**	ug/L	100	34.0	100		01/01/19 00:17	56-23-5	
Chlorobenzene	**100 U**	ug/L	100	15.0	100		01/01/19 00:17	108-90-7	
Chloroethane	**100 U**	ug/L	100	55.0	100		01/01/19 00:17	75-00-3	
Chloroform	**100 U**	ug/L	100	30.0	100		01/01/19 00:17	67-66-3	
Chloromethane	**100 U**	ug/L	100	68.0	100		01/01/19 00:17	74-87-3	
Dibromochloromethane	**100 U**	ug/L	100	27.0	100		01/01/19 00:17	124-48-1	
Dibromomethane	**100 U**	ug/L	100	40.0	100		01/01/19 00:17	74-95-3	
Ethylbenzene	**100 U**	ug/L	100	31.0	100		01/01/19 00:17	100-41-4	
Iodomethane	**5000 U**	ug/L	5000	67.0	100		01/01/19 00:17	74-88-4	CL,IH
Methyl-tert-butyl ether	**100 U**	ug/L	100	23.0	100		01/01/19 00:17	1634-04-4	
Methylene Chloride	**160**	ug/L	100	77.0	100		01/01/19 00:17	75-09-2	B
Naphthalene	**5800**	ug/L	200	82.0	100		01/01/19 00:17	91-20-3	
Styrene	**100 U**	ug/L	100	17.0	100		01/01/19 00:17	100-42-5	
Tetrachloroethene	**100 U**	ug/L	100	32.0	100		01/01/19 00:17	127-18-4	
Toluene	**56.8J**	ug/L	100	30.0	100		01/01/19 00:17	108-88-3	
Trichloroethene	**100 U**	ug/L	100	39.0	100		01/01/19 00:17	79-01-6	
Trichlorofluoromethane	**100 U**	ug/L	100	28.0	100		01/01/19 00:17	75-69-4	
Vinyl acetate	**1000 U**	ug/L	1000	51.0	100		01/01/19 00:17	108-05-4	
Vinyl chloride	**100 U**	ug/L	100	31.0	100		01/01/19 00:17	75-01-4	
Xylene (Total)	**150J**	ug/L	300	78.0	100		01/01/19 00:17	1330-20-7	
cis-1,2-Dichloroethene	**100 U**	ug/L	100	18.0	100		01/01/19 00:17	156-59-2	
cis-1,3-Dichloropropene	**100 U**	ug/L	100	25.0	100		01/01/19 00:17	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO23-PZM008 **Lab ID: 30274827003** Collected: 12/18/18 11:17 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**100 U**	ug/L	100	22.0	100		01/01/19 00:17	156-60-5	
trans-1,3-Dichloropropene	**100 U**	ug/L	100	26.0	100		01/01/19 00:17	10061-02-6	
trans-1,4-Dichloro-2-butene	**500 U**	ug/L	500	62.0	100		01/01/19 00:17	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%.	79-129		100		01/01/19 00:17	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	80-120		100		01/01/19 00:17	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		100		01/01/19 00:17	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		100		01/01/19 00:17	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO59-PZP002 **Lab ID: 30274827004** Collected: 12/18/18 12:05 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 18:07	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 18:07	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 18:07	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 18:07	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 18:07	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 18:07	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 18:07	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 18:07	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 18:07	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 18:07	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 18:07	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 18:07	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 18:07	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 18:07	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 18:07	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 18:07	108-10-1	
Acetone	**30.4**	ug/L	10.0	2.8	1		12/31/18 18:07	67-64-1	R1
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 18:07	107-13-1	
Benzene	**17.5**	ug/L	1.0	0.24	1		12/31/18 18:07	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 18:07	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 18:07	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 18:07	75-25-2	ML
Bromomethane	**0.65J**	ug/L	1.0	0.49	1		12/31/18 18:07	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 18:07	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 18:07	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 18:07	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 18:07	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 18:07	67-66-3	
Chloromethane	**0.78J**	ug/L	1.0	0.68	1		12/31/18 18:07	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 18:07	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 18:07	74-95-3	
Ethylbenzene	**1.3**	ug/L	1.0	0.31	1		12/31/18 18:07	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 18:07	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 18:07	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 18:07	75-09-2	
Naphthalene	**94.5**	ug/L	2.0	0.82	1		12/31/18 18:07	91-20-3	
Styrene	**0.63J**	ug/L	1.0	0.17	1		12/31/18 18:07	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 18:07	127-18-4	
Toluene	**2.5**	ug/L	1.0	0.30	1		12/31/18 18:07	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 18:07	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 18:07	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 18:07	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 18:07	75-01-4	MH
Xylene (Total)	**12.6**	ug/L	3.0	0.78	1		12/31/18 18:07	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 18:07	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 18:07	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO59-PZP002 **Lab ID: 30274827004** Collected: 12/18/18 12:05 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 18:07	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 18:07	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 18:07	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%.	79-129		1		12/31/18 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		12/31/18 18:07	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/31/18 18:07	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		12/31/18 18:07	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO56-PZP001 **Lab ID: 30274827005** Collected: 12/18/18 13:00 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 00:42	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:42	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 00:42	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:42	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/01/19 00:42	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:42	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/01/19 00:42	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/01/19 00:42	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:42	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/01/19 00:42	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 00:42	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:42	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:42	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/01/19 00:42	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/01/19 00:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/01/19 00:42	108-10-1	
Acetone	**65.0**	ug/L	50.0	14.2	5		01/01/19 00:42	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/01/19 00:42	107-13-1	
Benzene	**203**	ug/L	5.0	1.2	5		01/01/19 00:42	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 00:42	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:42	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:42	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/01/19 00:42	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:42	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 00:42	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/01/19 00:42	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 00:42	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/01/19 00:42	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/01/19 00:42	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:42	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 00:42	74-95-3	
Ethylbenzene	**8.8**	ug/L	5.0	1.6	5		01/01/19 00:42	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/01/19 00:42	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 00:42	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		01/01/19 00:42	75-09-2	
Naphthalene	**3290**	ug/L	200	82.0	100		01/01/19 01:06	91-20-3	
Styrene	**43.3**	ug/L	5.0	0.85	5		01/01/19 00:42	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:42	127-18-4	
Toluene	**45.7**	ug/L	5.0	1.5	5		01/01/19 00:42	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 00:42	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:42	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/01/19 00:42	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:42	75-01-4	
Xylene (Total)	**182**	ug/L	15.0	3.9	5		01/01/19 00:42	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/01/19 00:42	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 00:42	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO56-PZP001 **Lab ID: 30274827005** Collected: 12/18/18 13:00 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/01/19 00:42	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/01/19 00:42	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/01/19 00:42	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	79-129		5		01/01/19 00:42	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		5		01/01/19 00:42	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		01/01/19 00:42	2037-26-5	
Dibromofluoromethane (S)	100	%.	80-120		5		01/01/19 00:42	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO55-PZM000 **Lab ID: 30274827006** Collected: 12/18/18 13:40 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 19:46	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:46	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:46	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:46	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 19:46	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:46	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 19:46	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 19:46	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:46	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 19:46	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:46	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 19:46	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:46	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 19:46	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 19:46	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 19:46	108-10-1	
Acetone	**31.6**	ug/L	10.0	2.8	1		12/31/18 19:46	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 19:46	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/31/18 19:46	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:46	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 19:46	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:46	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 19:46	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:46	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:46	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 19:46	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 19:46	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 19:46	67-66-3	
Chloromethane	**1.1**	ug/L	1.0	0.68	1		12/31/18 19:46	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 19:46	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 19:46	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:46	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 19:46	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 19:46	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 19:46	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/31/18 19:46	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 19:46	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:46	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 19:46	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 19:46	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:46	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 19:46	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:46	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/31/18 19:46	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 19:46	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:46	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO55-PZM000 **Lab ID: 30274827006** Collected: 12/18/18 13:40 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 19:46	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 19:46	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 19:46	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		1		12/31/18 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		1		12/31/18 19:46	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/31/18 19:46	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		12/31/18 19:46	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO57-PZP002 **Lab ID: 30274827007** Collected: 12/18/18 14:20 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 19:21	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:21	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:21	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:21	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 19:21	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:21	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 19:21	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 19:21	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:21	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 19:21	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:21	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 19:21	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:21	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 19:21	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 19:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 19:21	108-10-1	
Acetone	**35.8**	ug/L	10.0	2.8	1		12/31/18 19:21	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 19:21	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/31/18 19:21	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:21	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 19:21	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:21	75-25-2	
Bromomethane	**0.94J**	ug/L	1.0	0.49	1		12/31/18 19:21	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:21	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:21	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 19:21	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 19:21	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 19:21	67-66-3	
Chloromethane	**0.98J**	ug/L	1.0	0.68	1		12/31/18 19:21	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 19:21	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 19:21	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:21	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 19:21	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 19:21	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 19:21	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/31/18 19:21	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 19:21	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:21	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 19:21	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 19:21	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:21	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 19:21	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:21	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/31/18 19:21	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 19:21	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:21	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO57-PZP002 **Lab ID: 30274827007** Collected: 12/18/18 14:20 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 19:21	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 19:21	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 19:21	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	79-129		1		12/31/18 19:21	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		12/31/18 19:21	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/31/18 19:21	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		12/31/18 19:21	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO58-PZM001 **Lab ID: 30274827008** Collected: 12/18/18 15:00 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 21:25	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 21:25	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 21:25	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 21:25	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 21:25	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 21:25	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 21:25	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 21:25	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 21:25	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 21:25	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 21:25	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 21:25	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 21:25	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 21:25	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 21:25	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 21:25	108-10-1	
Acetone	**3.1J**	ug/L	10.0	2.8	1		12/31/18 21:25	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 21:25	107-13-1	
Benzene	**195**	ug/L	1.0	0.24	1		12/31/18 21:25	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 21:25	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 21:25	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 21:25	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 21:25	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 21:25	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 21:25	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 21:25	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 21:25	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 21:25	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 21:25	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 21:25	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 21:25	74-95-3	
Ethylbenzene	**9.2**	ug/L	1.0	0.31	1		12/31/18 21:25	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 21:25	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 21:25	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 21:25	75-09-2	
Naphthalene	**2140**	ug/L	40.0	16.4	20		12/31/18 21:49	91-20-3	
Styrene	**22.3**	ug/L	1.0	0.17	1		12/31/18 21:25	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 21:25	127-18-4	
Toluene	**41.5**	ug/L	1.0	0.30	1		12/31/18 21:25	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 21:25	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 21:25	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 21:25	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 21:25	75-01-4	
Xylene (Total)	**149**	ug/L	3.0	0.78	1		12/31/18 21:25	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 21:25	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 21:25	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274827

Sample: CO58-PZM001 **Lab ID: 30274827008** Collected: 12/18/18 15:00 Received: 12/18/18 22:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 21:25	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 21:25	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 21:25	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		1		12/31/18 21:25	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		12/31/18 21:25	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/31/18 21:25	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		12/31/18 21:25	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274827

QC Batch: 325590 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30274827001, 30274827002, 30274827003, 30274827004, 30274827005, 30274827006, 30274827007, 30274827008

METHOD BLANK: 1586585 Matrix: Water
Associated Lab Samples: 30274827001, 30274827002, 30274827003, 30274827004, 30274827005, 30274827006, 30274827007, 30274827008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/31/18 16:53	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/31/18 16:53	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/31/18 16:53	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/31/18 16:53	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/31/18 16:53	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/31/18 16:53	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/31/18 16:53	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/31/18 16:53	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/31/18 16:53	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/31/18 16:53	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/31/18 16:53	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/31/18 16:53	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/31/18 16:53	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/31/18 16:53	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/31/18 16:53	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/31/18 16:53	
Acetone	ug/L	10.0 U	10.0	2.8	12/31/18 16:53	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/31/18 16:53	
Benzene	ug/L	1.0 U	1.0	0.24	12/31/18 16:53	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/31/18 16:53	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/31/18 16:53	
Bromoform	ug/L	1.0 U	1.0	0.32	12/31/18 16:53	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/31/18 16:53	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/31/18 16:53	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/31/18 16:53	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/31/18 16:53	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/31/18 16:53	
Chloroform	ug/L	1.0 U	1.0	0.30	12/31/18 16:53	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/31/18 16:53	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/31/18 16:53	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/31/18 16:53	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/31/18 16:53	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/31/18 16:53	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/31/18 16:53	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/31/18 16:53	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/31/18 16:53	
Methylene Chloride	ug/L	2.0	1.0	0.77	12/31/18 16:53	C9
Naphthalene	ug/L	2.0 U	2.0	0.82	12/31/18 16:53	
Styrene	ug/L	1.0 U	1.0	0.17	12/31/18 16:53	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/31/18 16:53	

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REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274827

METHOD BLANK: 1586585 Matrix: Water

Associated Lab Samples: 30274827001, 30274827002, 30274827003, 30274827004, 30274827005, 30274827006, 30274827007, 30274827008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	1.0 U	1.0	0.30	12/31/18 16:53	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/31/18 16:53	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/31/18 16:53	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/31/18 16:53	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/31/18 16:53	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/31/18 16:53	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/31/18 16:53	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/31/18 16:53	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/31/18 16:53	
1,2-Dichloroethane-d4 (S)	%.	104	80-120		12/31/18 16:53	
4-Bromofluorobenzene (S)	%.	89	79-129		12/31/18 16:53	
Dibromofluoromethane (S)	%.	105	80-120		12/31/18 16:53	
Toluene-d8 (S)	%.	93	80-120		12/31/18 16:53	

LABORATORY CONTROL SAMPLE: 1586586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	65-127	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethene	ug/L	20	22.3	112	70-130	
1,2,3-Trichloropropane	ug/L	20	20.9	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.7	89	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	20	20.7	104	70-130	
1,2-Dichloroethane	ug/L	20	20.7	104	70-130	
1,2-Dichloropropane	ug/L	20	22.3	111	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	20	21.6	108	72-170	
2-Hexanone	ug/L	20	19.9	99	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.5	113	66-150	
Acetone	ug/L	20	22.5	112	30-179	
Acrylonitrile	ug/L	20	22.9	115	48-172	
Benzene	ug/L	20	20.3	101	70-130	
Bromochloromethane	ug/L	20	22.7	113	70-130	
Bromodichloromethane	ug/L	20	18.7	93	70-130	
Bromoform	ug/L	20	16.9	84	70-130	
Bromomethane	ug/L	20	15.2	76	47-174	
Carbon disulfide	ug/L	20	18.1	91	43-133	
Carbon tetrachloride	ug/L	20	19.4	97	56-143	
Chlorobenzene	ug/L	20	20.5	103	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274827

LABORATORY CONTROL SAMPLE: 1586586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroethane	ug/L	20	21.7	109	67-139	
Chloroform	ug/L	20	19.3	97	70-130	
Chloromethane	ug/L	20	20.6	103	57-138	
cis-1,2-Dichloroethene	ug/L	20	22.1	110	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
Dibromochloromethane	ug/L	20	19.9	100	70-130	
Dibromomethane	ug/L	20	19.5	97	70-130	
Ethylbenzene	ug/L	20	20.5	102	70-130	
Iodomethane	ug/L	20	8.1J	40	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	19.6	98	70-130	
Methylene Chloride	ug/L	20	26.0	130	55-144	
Naphthalene	ug/L	20	20.4	102	70-130	
Styrene	ug/L	20	20.0	100	70-130	
Tetrachloroethene	ug/L	20	20.1	100	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.7	108	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	18.3	92	27-116	
Trichloroethene	ug/L	20	20.5	102	70-130	
Trichlorofluoromethane	ug/L	20	22.9	115	60-148	
Vinyl acetate	ug/L	20	19.3	96	30-181	
Vinyl chloride	ug/L	20	21.9	109	70-130	
Xylene (Total)	ug/L	60	61.5	102	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	80-120	
4-Bromofluorobenzene (S)	%.			91	79-129	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586587 1586588

Parameter	Units	30274827004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.3	18.3	92	92	51-124	0	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.7	19.3	98	96	79-129	2	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.5	17.8	88	89	57-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.1	19.1	95	96	68-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	20.9	21.0	104	105	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	22.2	21.6	111	108	63-126	3	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.5	19.0	88	95	56-129	8	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.0	15.4	70	77	53-120	9	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.7	18.7	93	94	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.0	19.3	95	97	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.2	19.3	96	96	69-116	0	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.8	20.5	104	102	63-118	2	30	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274827

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586587 1586588

Parameter	Units	30274827004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.1	19.3	95	96	72-118	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	21.3	21.0	106	105	72-168	1	30	
2-Hexanone	ug/L	10.0 U	20	20	19.5	19.3	97	96	66-143	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.6	21.6	108	108	67-145	0	30	
Acetone	ug/L	30.4	20	20	60.4	42.8	150	62	15-175	34	30	R1
Acrylonitrile	ug/L	4.0 U	20	20	21.2	20.3	106	102	36-165	4	30	
Benzene	ug/L	17.5	20	20	37.5	37.1	100	98	67-121	1	30	
Bromochloromethane	ug/L	1.0 U	20	20	21.5	20.5	107	102	62-128	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.2	18.7	96	93	66-127	3	30	
Bromoform	ug/L	1.0 U	20	20	13.9	13.8	70	69	71-127	1	30	ML
Bromomethane	ug/L	0.65J	20	20	10.3	13.4	48	64	10-156	26	30	
Carbon disulfide	ug/L	1.0 U	20	20	15.3	14.9	76	74	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.3	19.1	96	96	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.0	20.0	100	100	69-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	29.9	28.4	149	142	60-156	5	30	
Chloroform	ug/L	1.0 U	20	20	18.1	18.1	90	90	69-115	0	30	
Chloromethane	ug/L	0.78J	20	20	24.8	24.5	120	119	52-145	1	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.8	20.0	99	100	65-120	1	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.4	17.1	87	86	57-125	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.4	17.4	87	87	64-131	0	30	
Dibromomethane	ug/L	1.0 U	20	20	18.8	18.7	94	93	56-133	1	30	
Ethylbenzene	ug/L	1.3	20	20	21.8	20.6	102	96	70-127	6	30	
Iodomethane	ug/L	50.0 U	20	20	2.4J	4.1J	12	20	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	18.4	17.9	92	90	79-135	2	30	
Methylene Chloride	ug/L	1.0 U	20	20	22.3	22.8	112	114	54-133	2	30	
Naphthalene	ug/L	94.5	20	20	115	120	101	126	62-131	4	30	
Styrene	ug/L	0.63J	20	20	19.0	18.0	92	87	65-121	5	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.5	18.8	97	94	77-125	4	30	
Toluene	ug/L	2.5	20	20	22.0	21.4	97	94	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	21.0	21.2	105	106	70-119	1	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.8	16.8	84	84	52-125	0	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	13.9	13.3	70	67	13-100	5	30	
Trichloroethene	ug/L	1.0 U	20	20	19.2	19.3	96	96	74-128	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	31.1	30.6	155	153	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.0	15.4	80	77	15-173	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	27.4	27.3	137	137	60-131	0	30	MH
Xylene (Total)	ug/L	12.6	60	60	73.1	72.7	101	100	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						98	99	80-120			
4-Bromofluorobenzene (S)	%.						93	92	79-129			
Dibromofluoromethane (S)	%.						102	100	80-120			
Toluene-d8 (S)	%.						99	98	80-120			

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REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30274827

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C8	Result may be biased high due to carryover from previously analyzed sample.
C9	Common Laboratory Contaminant.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30274827

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30274827001	**Trip Blank**	EPA 8260B	325590		
30274827002	**CO24-PZM007**	EPA 8260B	325590		
30274827003	**CO23-PZM008**	EPA 8260B	325590		
30274827004	**CO59-PZP002**	EPA 8260B	325590		
30274827005	**CO56-PZP001**	EPA 8260B	325590		
30274827006	**CO55-PZM000**	EPA 8260B	325590		
30274827007	**CO57-PZP002**	EPA 8260B	325590		
30274827008	**CO58-PZM001**	EPA 8260B	325590		

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The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

ion A ired Client Information:		Section B Required Project Information:		Section C Invoice Information:	
any:	EnviroAnalytics Group	Report To:	James Calenda	Attention:	Laura Sargent
ss:	1600 Sparrows Point Blvd, Suite B2	Copy To:	Stewart Kabis	Company Name:	EnviroAnalytics Group
	Sparrows Point, MD 21219			Address:	1650 Des Peres Road, Suite 303 St. Louis, MO 63131
l To:	jcalenda@enviroanalyticsgroup.com	Purchase Order No.:	EAG-SPT-6989	Pace Quote Reference:	
e: 314-620-3056	Fax:	Project Name:	COA IM GW Sampling	Pace Project Manager:	Samantha Bayura
ested Due Date/TAT:	5 Day	Project Number:	180227M-1-2	Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Requested Analysis Filtered (Y/N)

WO#: 30274827

30274827

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOC + NAPH by 8260	Residual	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			12/18/18	—		2				2						X		001
2	C024-PZM007	WT	G				915		3				3						X		002
3	C023-PZM008	WT	G				1117		3				3						X		003
4	C059-PZP002	WT	G				1205		3				3						X		004
5	C056-PZP001	WT	G				1300		3				3						X		005
6	C055-PZM000	WT	G				1340		3				3						X		006
7	C057-PZP002	WT	G				1420		3				3						X		007
8	C058-PZM001	WT	G				1500		3				3						X		008
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No data pkgs	[signature]	12/18/18	1540	David L Hillegan / Pace	12/18/18	1549				
	David L Hillegan / Pace	12/18/18	1850	Randy [signature]	12/18/18	1850		Y		
	Randy [signature]	12/18/18	2215	[signature]	12/18/18	2215	1.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lisa Perrin

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 12/18/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: enviroanalytics Project # 30274827

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label BMH
LIMS Login BMH

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used 10 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 1.7 °C Correction Factor: -0.0 °C Final Temp: 1.7 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: BMH 12/19/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions: (VOA), coliform, TOC, O&G, Phenolics			✓	16. Initial when completed: _____ Date/time of preservation: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present:	✓			18. pace provided
Trip Blank Custody Seals Present	✓			
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BMH Date: 12/19/18

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 03, 2019

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30274976

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30274976

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30274976001	**Trip Blank**	Water	12/19/18 00:00	12/19/18 23:15
30274976002	**CO60-PZM001**	Water	12/19/18 09:00	12/19/18 23:15
30274976003	**CO26-PZM007**	Water	12/19/18 10:00	12/19/18 23:15
30274976004	**CO103-PZMXXX**	Water	12/19/18 10:50	12/19/18 23:15
30274976005	**CO102-PZMXXX**	Water	12/19/18 11:15	12/19/18 23:15
30274976006	**CO43-PZM048**	Water	12/19/18 13:30	12/19/18 23:15
30274976007	**CO44-PZM048**	Water	12/19/18 13:40	12/19/18 23:15
30274976008	**CO45-PZM047**	Water	12/19/18 13:52	12/19/18 23:15
30274976009	**CO46-PZM047**	Water	12/19/18 14:05	12/19/18 23:15
30274976010	**CO47-PZM046**	Water	12/19/18 14:17	12/19/18 23:15
30274976011	**CO48-PZM044**	Water	12/19/18 14:30	12/19/18 23:15

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30274976

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30274976001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30274976002	**CO60-PZM001**	EPA 8260B	LEL	53	PASI-PA
30274976003	**CO26-PZM007**	EPA 8260B	LEL	53	PASI-PA
30274976004	**CO103-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30274976005	**CO102-PZMXXX**	EPA 8260B	LEL	53	PASI-PA
30274976006	**CO43-PZM048**	EPA 8260B	LEL	53	PASI-PA
30274976007	**CO44-PZM048**	EPA 8260B	LEL	53	PASI-PA
30274976008	**CO45-PZM047**	EPA 8260B	LEL	53	PASI-PA
30274976009	**CO46-PZM047**	EPA 8260B	LEL	53	PASI-PA
30274976010	**CO47-PZM046**	EPA 8260B	LEL	53	PASI-PA
30274976011	**CO48-PZM044**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: Trip Blank **Lab ID: 30274976001** Collected: 12/19/18 00:00 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 17:43	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:43	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:43	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:43	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 17:43	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:43	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 17:43	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		12/31/18 17:43	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:43	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 17:43	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:43	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 17:43	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:43	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		12/31/18 17:43	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		12/31/18 17:43	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		12/31/18 17:43	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		12/31/18 17:43	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 17:43	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/31/18 17:43	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:43	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 17:43	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:43	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 17:43	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:43	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:43	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 17:43	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 17:43	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:43	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 17:43	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 17:43	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 17:43	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:43	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		12/31/18 17:43	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 17:43	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 17:43	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/31/18 17:43	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 17:43	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:43	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:43	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 17:43	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:43	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		12/31/18 17:43	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:43	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		12/31/18 17:43	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 17:43	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:43	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: Trip Blank **Lab ID: 30274976001** Collected: 12/19/18 00:00 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 17:43	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 17:43	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		12/31/18 17:43	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	79-129		1		12/31/18 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		12/31/18 17:43	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/31/18 17:43	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		1		12/31/18 17:43	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO60-PZM001 **Lab ID: 30274976002** Collected: 12/19/18 09:00 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 22:14	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 22:14	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 22:14	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 22:14	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 22:14	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 22:14	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 22:14	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 22:14	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 22:14	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 22:14	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 22:14	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 22:14	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 22:14	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 22:14	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 22:14	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 22:14	108-10-1	
Acetone	**6.5J**	ug/L	10.0	2.8	1		12/31/18 22:14	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 22:14	107-13-1	
Benzene	**218**	ug/L	1.0	0.24	1		12/31/18 22:14	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 22:14	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 22:14	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 22:14	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 22:14	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 22:14	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 22:14	56-23-5	
Chlorobenzene	**0.56J**	ug/L	1.0	0.15	1		12/31/18 22:14	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 22:14	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 22:14	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 22:14	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 22:14	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 22:14	74-95-3	
Ethylbenzene	**7.8**	ug/L	1.0	0.31	1		12/31/18 22:14	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 22:14	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 22:14	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 22:14	75-09-2	
Naphthalene	**2470**	ug/L	40.0	16.4	20		12/31/18 22:39	91-20-3	
Styrene	**35.2**	ug/L	1.0	0.17	1		12/31/18 22:14	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 22:14	127-18-4	
Toluene	**36.1**	ug/L	1.0	0.30	1		12/31/18 22:14	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 22:14	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 22:14	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 22:14	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 22:14	75-01-4	
Xylene (Total)	**167**	ug/L	3.0	0.78	1		12/31/18 22:14	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 22:14	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 22:14	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO60-PZM001 **Lab ID: 30274976002** Collected: 12/19/18 09:00 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 22:14	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 22:14	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 22:14	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	79-129		1		12/31/18 22:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		12/31/18 22:14	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/31/18 22:14	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		12/31/18 22:14	1868-53-7	

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO26-PZM007 **Lab ID: 30274976003** Collected: 12/19/18 10:00 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 23:03	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 23:03	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 23:03	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 23:03	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 23:03	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 23:03	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 23:03	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 23:03	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 23:03	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 23:03	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 23:03	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 23:03	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 23:03	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 23:03	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 23:03	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 23:03	108-10-1	
Acetone	**5.7J**	ug/L	10.0	2.8	1		12/31/18 23:03	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 23:03	107-13-1	
Benzene	**276**	ug/L	1.0	0.24	1		12/31/18 23:03	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 23:03	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 23:03	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 23:03	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 23:03	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 23:03	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 23:03	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 23:03	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 23:03	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 23:03	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 23:03	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 23:03	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 23:03	74-95-3	
Ethylbenzene	**12.4**	ug/L	1.0	0.31	1		12/31/18 23:03	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 23:03	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 23:03	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 23:03	75-09-2	
Naphthalene	**3720**	ug/L	40.0	16.4	20		12/31/18 23:28	91-20-3	
Styrene	**63.6**	ug/L	1.0	0.17	1		12/31/18 23:03	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 23:03	127-18-4	
Toluene	**142**	ug/L	1.0	0.30	1		12/31/18 23:03	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 23:03	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 23:03	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 23:03	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 23:03	75-01-4	
Xylene (Total)	**259**	ug/L	3.0	0.78	1		12/31/18 23:03	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 23:03	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 23:03	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO26-PZM007 **Lab ID: 30274976003** Collected: 12/19/18 10:00 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 23:03	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 23:03	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 23:03	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		1		12/31/18 23:03	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		12/31/18 23:03	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/31/18 23:03	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		1		12/31/18 23:03	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO103-PZMXXX **Lab ID: 30274976004** Collected: 12/19/18 10:50 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 01:31	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:31	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 01:31	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:31	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/01/19 01:31	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:31	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/01/19 01:31	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/01/19 01:31	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:31	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/01/19 01:31	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 01:31	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:31	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:31	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/01/19 01:31	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/01/19 01:31	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/01/19 01:31	108-10-1	
Acetone	**43.3J**	ug/L	50.0	14.2	5		01/01/19 01:31	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/01/19 01:31	107-13-1	
Benzene	**786**	ug/L	5.0	1.2	5		01/01/19 01:31	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 01:31	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:31	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:31	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/01/19 01:31	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:31	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 01:31	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/01/19 01:31	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 01:31	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/01/19 01:31	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/01/19 01:31	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:31	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 01:31	74-95-3	
Ethylbenzene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:31	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/01/19 01:31	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 01:31	1634-04-4	
Methylene Chloride	**5.0 U**	ug/L	5.0	3.8	5		01/01/19 01:31	75-09-2	
Naphthalene	**112**	ug/L	10.0	4.1	5		01/01/19 01:31	91-20-3	
Styrene	**5.0 U**	ug/L	5.0	0.85	5		01/01/19 01:31	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:31	127-18-4	
Toluene	**41.6**	ug/L	5.0	1.5	5		01/01/19 01:31	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 01:31	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:31	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/01/19 01:31	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:31	75-01-4	
Xylene (Total)	**28.2**	ug/L	15.0	3.9	5		01/01/19 01:31	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/01/19 01:31	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 01:31	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO103-PZMXXX **Lab ID: 30274976004** Collected: 12/19/18 10:50 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/01/19 01:31	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/01/19 01:31	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/01/19 01:31	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	79-129		5		01/01/19 01:31	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		01/01/19 01:31	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		01/01/19 01:31	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		01/01/19 01:31	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO102-PZMXXX **Lab ID: 30274976005** Collected: 12/19/18 11:15 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 23:40	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 23:40	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 23:40	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 23:40	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/31/18 23:40	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 23:40	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/31/18 23:40	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/31/18 23:40	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 23:40	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/31/18 23:40	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 23:40	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 23:40	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 23:40	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/31/18 23:40	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/31/18 23:40	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/31/18 23:40	108-10-1	
Acetone	**18.6J**	ug/L	50.0	14.2	5		12/31/18 23:40	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/31/18 23:40	107-13-1	
Benzene	**15300**	ug/L	100	24.0	100		01/01/19 00:05	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 23:40	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 23:40	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 23:40	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/31/18 23:40	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 23:40	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 23:40	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/31/18 23:40	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 23:40	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/31/18 23:40	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/31/18 23:40	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 23:40	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 23:40	74-95-3	
Ethylbenzene	**20.4**	ug/L	5.0	1.6	5		12/31/18 23:40	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/31/18 23:40	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 23:40	1634-04-4	
Methylene Chloride	**6.5**	ug/L	5.0	3.8	5		12/31/18 23:40	75-09-2	B
Naphthalene	**917**	ug/L	10.0	4.1	5		12/31/18 23:40	91-20-3	
Styrene	**6.6**	ug/L	5.0	0.85	5		12/31/18 23:40	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 23:40	127-18-4	
Toluene	**859**	ug/L	5.0	1.5	5		12/31/18 23:40	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 23:40	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 23:40	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/31/18 23:40	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 23:40	75-01-4	
Xylene (Total)	**249**	ug/L	15.0	3.9	5		12/31/18 23:40	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/31/18 23:40	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 23:40	10061-01-5	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO102-PZMXXX **Lab ID: 30274976005** Collected: 12/19/18 11:15 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/31/18 23:40	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/31/18 23:40	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/31/18 23:40	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	79-129		5		12/31/18 23:40	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%.	80-120		5		12/31/18 23:40	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		12/31/18 23:40	2037-26-5	
Dibromofluoromethane (S)	92	%.	80-120		5		12/31/18 23:40	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO43-PZM048 **Lab ID: 30274976006** Collected: 12/19/18 13:30 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 17:55	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:55	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:55	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:55	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 17:55	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:55	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 17:55	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 17:55	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:55	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 17:55	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:55	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 17:55	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:55	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 17:55	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 17:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 17:55	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		12/31/18 17:55	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 17:55	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/31/18 17:55	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:55	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 17:55	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:55	75-25-2	ML
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 17:55	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:55	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:55	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 17:55	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 17:55	75-00-3	MH
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:55	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 17:55	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 17:55	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 17:55	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:55	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 17:55	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 17:55	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 17:55	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/31/18 17:55	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 17:55	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:55	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:55	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 17:55	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:55	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 17:55	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:55	75-01-4	MH
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/31/18 17:55	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 17:55	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:55	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO43-PZM048 **Lab ID: 30274976006** Collected: 12/19/18 13:30 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 17:55	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 17:55	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 17:55	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	79-129		1		12/31/18 17:55	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	80-120		1		12/31/18 17:55	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		1		12/31/18 17:55	2037-26-5	
Dibromofluoromethane (S)	108	%.	80-120		1		12/31/18 17:55	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO44-PZM048 **Lab ID: 30274976007** Collected: 12/19/18 13:40 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 19:09	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:09	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:09	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:09	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 19:09	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:09	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 19:09	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 19:09	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:09	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 19:09	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:09	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 19:09	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:09	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 19:09	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 19:09	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 19:09	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		12/31/18 19:09	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 19:09	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/31/18 19:09	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:09	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 19:09	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:09	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 19:09	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:09	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:09	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 19:09	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 19:09	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 19:09	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 19:09	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 19:09	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 19:09	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:09	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 19:09	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 19:09	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 19:09	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/31/18 19:09	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 19:09	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:09	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 19:09	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 19:09	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:09	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 19:09	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:09	75-01-4	
Xylene (Total)	**3.0 U**	ug/L	3.0	0.78	1		12/31/18 19:09	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 19:09	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:09	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO44-PZM048 **Lab ID: 30274976007** Collected: 12/19/18 13:40 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 19:09	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 19:09	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 19:09	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	79-129		1		12/31/18 19:09	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	80-120		1		12/31/18 19:09	17060-07-0	
Toluene-d8 (S)	95	%.	80-120		1		12/31/18 19:09	2037-26-5	
Dibromofluoromethane (S)	103	%.	80-120		1		12/31/18 19:09	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO45-PZM047 **Lab ID: 30274976008** Collected: 12/19/18 13:52 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 19:33	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:33	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:33	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:33	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 19:33	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:33	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 19:33	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 19:33	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:33	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 19:33	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:33	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 19:33	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 19:33	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 19:33	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 19:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 19:33	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		12/31/18 19:33	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 19:33	107-13-1	
Benzene	**762**	ug/L	10.0	2.4	10		01/02/19 15:05	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:33	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 19:33	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:33	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 19:33	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:33	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 19:33	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 19:33	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 19:33	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 19:33	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 19:33	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 19:33	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 19:33	74-95-3	
Ethylbenzene	**1.1**	ug/L	1.0	0.31	1		12/31/18 19:33	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 19:33	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 19:33	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 19:33	75-09-2	
Naphthalene	**16.3**	ug/L	2.0	0.82	1		12/31/18 19:33	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 19:33	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 19:33	127-18-4	
Toluene	**11.3**	ug/L	1.0	0.30	1		12/31/18 19:33	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 19:33	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 19:33	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 19:33	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 19:33	75-01-4	
Xylene (Total)	**6.7**	ug/L	3.0	0.78	1		12/31/18 19:33	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 19:33	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 19:33	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO45-PZM047 **Lab ID: 30274976008** Collected: 12/19/18 13:52 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 19:33	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 19:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 19:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	79-129		1		12/31/18 19:33	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	80-120		1		12/31/18 19:33	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		12/31/18 19:33	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		12/31/18 19:33	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO46-PZM047 **Lab ID: 30274976009** Collected: 12/19/18 14:05 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 00:30	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:30	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 00:30	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:30	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/01/19 00:30	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:30	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/01/19 00:30	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/01/19 00:30	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:30	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/01/19 00:30	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 00:30	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:30	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 00:30	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/01/19 00:30	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/01/19 00:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/01/19 00:30	108-10-1	
Acetone	**45.3J**	ug/L	50.0	14.2	5		01/01/19 00:30	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/01/19 00:30	107-13-1	
Benzene	**172000**	ug/L	1000	240	1000		01/02/19 15:30	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 00:30	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:30	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:30	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/01/19 00:30	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:30	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 00:30	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/01/19 00:30	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 00:30	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/01/19 00:30	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/01/19 00:30	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:30	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 00:30	74-95-3	
Ethylbenzene	**576**	ug/L	5.0	1.6	5		01/01/19 00:30	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/01/19 00:30	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 00:30	1634-04-4	
Methylene Chloride	**7.7**	ug/L	5.0	3.8	5		01/01/19 00:30	75-09-2	B
Naphthalene	**475**	ug/L	10.0	4.1	5		01/01/19 00:30	91-20-3	
Styrene	**16.9**	ug/L	5.0	0.85	5		01/01/19 00:30	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:30	127-18-4	
Toluene	**7330**	ug/L	200	60.0	200		01/01/19 00:54	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 00:30	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 00:30	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/01/19 00:30	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 00:30	75-01-4	
Xylene (Total)	**3240**	ug/L	15.0	3.9	5		01/01/19 00:30	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/01/19 00:30	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 00:30	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO46-PZM047 **Lab ID: 30274976009** Collected: 12/19/18 14:05 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/01/19 00:30	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/01/19 00:30	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/01/19 00:30	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	79-129		5		01/01/19 00:30	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		01/01/19 00:30	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		5		01/01/19 00:30	2037-26-5	
Dibromofluoromethane (S)	96	%.	80-120		5		01/01/19 00:30	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO47-PZM046 **Lab ID: 30274976010** Collected: 12/19/18 14:17 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 20:10	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 20:10	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 20:10	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 20:10	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/31/18 20:10	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 20:10	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/31/18 20:10	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/31/18 20:10	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 20:10	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/31/18 20:10	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 20:10	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 20:10	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 20:10	106-46-7	
2-Butanone (MEK)	**21.6J**	ug/L	50.0	10.5	5		12/31/18 20:10	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/31/18 20:10	591-78-6	
4-Methyl-2-pentanone (MIBK)	**2.2J**	ug/L	50.0	1.8	5		12/31/18 20:10	108-10-1	
Acetone	**179**	ug/L	50.0	14.2	5		12/31/18 20:10	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/31/18 20:10	107-13-1	
Benzene	**12400**	ug/L	100	24.0	100		01/02/19 14:41	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 20:10	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 20:10	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 20:10	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/31/18 20:10	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 20:10	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 20:10	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/31/18 20:10	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 20:10	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/31/18 20:10	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/31/18 20:10	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 20:10	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 20:10	74-95-3	
Ethylbenzene	**160**	ug/L	5.0	1.6	5		12/31/18 20:10	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/31/18 20:10	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 20:10	1634-04-4	
Methylene Chloride	**8.9**	ug/L	5.0	3.8	5		12/31/18 20:10	75-09-2	B
Naphthalene	**809**	ug/L	10.0	4.1	5		12/31/18 20:10	91-20-3	
Styrene	**135**	ug/L	5.0	0.85	5		12/31/18 20:10	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 20:10	127-18-4	
Toluene	**4370**	ug/L	100	30.0	100		01/02/19 14:41	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 20:10	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 20:10	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/31/18 20:10	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 20:10	75-01-4	
Xylene (Total)	**1730**	ug/L	15.0	3.9	5		12/31/18 20:10	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/31/18 20:10	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 20:10	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO47-PZM046 **Lab ID: 30274976010** Collected: 12/19/18 14:17 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/31/18 20:10	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/31/18 20:10	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/31/18 20:10	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	79-129		5		12/31/18 20:10	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		5		12/31/18 20:10	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		12/31/18 20:10	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		5		12/31/18 20:10	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO48-PZM044 **Lab ID: 30274976011** Collected: 12/19/18 14:30 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 01:18	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:18	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 01:18	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:18	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/01/19 01:18	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:18	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/01/19 01:18	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/01/19 01:18	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:18	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/01/19 01:18	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 01:18	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:18	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/01/19 01:18	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/01/19 01:18	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/01/19 01:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/01/19 01:18	108-10-1	
Acetone	**17.0J**	ug/L	50.0	14.2	5		01/01/19 01:18	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/01/19 01:18	107-13-1	
Benzene	**13900**	ug/L	500	120	500		01/01/19 01:43	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 01:18	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:18	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:18	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/01/19 01:18	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:18	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/01/19 01:18	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/01/19 01:18	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/01/19 01:18	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/01/19 01:18	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/01/19 01:18	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:18	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 01:18	74-95-3	
Ethylbenzene	**237**	ug/L	5.0	1.6	5		01/01/19 01:18	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/01/19 01:18	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 01:18	1634-04-4	
Methylene Chloride	**6.6**	ug/L	5.0	3.8	5		01/01/19 01:18	75-09-2	B
Naphthalene	**1170**	ug/L	10.0	4.1	5		01/01/19 01:18	91-20-3	
Styrene	**316**	ug/L	5.0	0.85	5		01/01/19 01:18	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:18	127-18-4	
Toluene	**7820**	ug/L	500	150	500		01/01/19 01:43	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/01/19 01:18	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/01/19 01:18	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/01/19 01:18	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/01/19 01:18	75-01-4	
Xylene (Total)	**1990**	ug/L	15.0	3.9	5		01/01/19 01:18	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/01/19 01:18	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/01/19 01:18	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30274976

Sample: CO48-PZM044 **Lab ID: 30274976011** Collected: 12/19/18 14:30 Received: 12/19/18 23:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/01/19 01:18	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/01/19 01:18	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/01/19 01:18	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	79-129		5		01/01/19 01:18	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%.	80-120		5		01/01/19 01:18	17060-07-0	
Toluene-d8 (S)	100	%.	80-120		5		01/01/19 01:18	2037-26-5	
Dibromofluoromethane (S)	91	%.	80-120		5		01/01/19 01:18	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

QC Batch: 325590 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30274976001, 30274976002, 30274976003, 30274976004, 30274976010

METHOD BLANK: 1586585 Matrix: Water
Associated Lab Samples: 30274976001, 30274976002, 30274976003, 30274976004, 30274976010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/31/18 16:53	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/31/18 16:53	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/31/18 16:53	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/31/18 16:53	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/31/18 16:53	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/31/18 16:53	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/31/18 16:53	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/31/18 16:53	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/31/18 16:53	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/31/18 16:53	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/31/18 16:53	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/31/18 16:53	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/31/18 16:53	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/31/18 16:53	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/31/18 16:53	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/31/18 16:53	
Acetone	ug/L	10.0 U	10.0	2.8	12/31/18 16:53	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/31/18 16:53	
Benzene	ug/L	1.0 U	1.0	0.24	12/31/18 16:53	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/31/18 16:53	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/31/18 16:53	
Bromoform	ug/L	1.0 U	1.0	0.32	12/31/18 16:53	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/31/18 16:53	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/31/18 16:53	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/31/18 16:53	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/31/18 16:53	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/31/18 16:53	
Chloroform	ug/L	1.0 U	1.0	0.30	12/31/18 16:53	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/31/18 16:53	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/31/18 16:53	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/31/18 16:53	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/31/18 16:53	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/31/18 16:53	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/31/18 16:53	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/31/18 16:53	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/31/18 16:53	
Methylene Chloride	ug/L	2.0	1.0	0.77	12/31/18 16:53	C9
Naphthalene	ug/L	2.0 U	2.0	0.82	12/31/18 16:53	
Styrene	ug/L	1.0 U	1.0	0.17	12/31/18 16:53	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/31/18 16:53	
Toluene	ug/L	1.0 U	1.0	0.30	12/31/18 16:53	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

METHOD BLANK: 1586585 Matrix: Water
Associated Lab Samples: 30274976001, 30274976002, 30274976003, 30274976004, 30274976010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/31/18 16:53	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/31/18 16:53	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/31/18 16:53	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/31/18 16:53	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/31/18 16:53	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/31/18 16:53	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/31/18 16:53	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/31/18 16:53	
1,2-Dichloroethane-d4 (S)	%.	104	80-120		12/31/18 16:53	
4-Bromofluorobenzene (S)	%.	89	79-129		12/31/18 16:53	
Dibromofluoromethane (S)	%.	105	80-120		12/31/18 16:53	
Toluene-d8 (S)	%.	93	80-120		12/31/18 16:53	

LABORATORY CONTROL SAMPLE: 1586586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	65-127	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	20.6	103	70-130	
1,1-Dichloroethene	ug/L	20	22.3	112	70-130	
1,2,3-Trichloropropane	ug/L	20	20.9	104	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.7	89	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	70-130	
1,2-Dichlorobenzene	ug/L	20	20.7	104	70-130	
1,2-Dichloroethane	ug/L	20	20.7	104	70-130	
1,2-Dichloropropane	ug/L	20	22.3	111	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	20	21.6	108	72-170	
2-Hexanone	ug/L	20	19.9	99	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	22.5	113	66-150	
Acetone	ug/L	20	22.5	112	30-179	
Acrylonitrile	ug/L	20	22.9	115	48-172	
Benzene	ug/L	20	20.3	101	70-130	
Bromochloromethane	ug/L	20	22.7	113	70-130	
Bromodichloromethane	ug/L	20	18.7	93	70-130	
Bromoform	ug/L	20	16.9	84	70-130	
Bromomethane	ug/L	20	15.2	76	47-174	
Carbon disulfide	ug/L	20	18.1	91	43-133	
Carbon tetrachloride	ug/L	20	19.4	97	56-143	
Chlorobenzene	ug/L	20	20.5	103	70-130	
Chloroethane	ug/L	20	21.7	109	67-139	
Chloroform	ug/L	20	19.3	97	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

LABORATORY CONTROL SAMPLE: 1586586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	20.6	103	57-138	
cis-1,2-Dichloroethene	ug/L	20	22.1	110	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
Dibromochloromethane	ug/L	20	19.9	100	70-130	
Dibromomethane	ug/L	20	19.5	97	70-130	
Ethylbenzene	ug/L	20	20.5	102	70-130	
Iodomethane	ug/L	20	8.1J	40	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	19.6	98	70-130	
Methylene Chloride	ug/L	20	26.0	130	55-144	
Naphthalene	ug/L	20	20.4	102	70-130	
Styrene	ug/L	20	20.0	100	70-130	
Tetrachloroethene	ug/L	20	20.1	100	70-130	
Toluene	ug/L	20	19.3	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.7	108	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	18.3	92	27-116	
Trichloroethene	ug/L	20	20.5	102	70-130	
Trichlorofluoromethane	ug/L	20	22.9	115	60-148	
Vinyl acetate	ug/L	20	19.3	96	30-181	
Vinyl chloride	ug/L	20	21.9	109	70-130	
Xylene (Total)	ug/L	60	61.5	102	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	80-120	
4-Bromofluorobenzene (S)	%.			91	79-129	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586587 1586588

Parameter	Units	30274827004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.3	18.3	92	92	51-124	0	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.7	19.3	98	96	79-129	2	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.5	17.8	88	89	57-118	1	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.1	19.1	95	96	68-117	0	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	20.9	21.0	104	105	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	22.2	21.6	111	108	63-126	3	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	17.5	19.0	88	95	56-129	8	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.0	15.4	70	77	53-120	9	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.7	18.7	93	94	69-124	0	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.0	19.3	95	97	72-119	1	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.2	19.3	96	96	69-116	0	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	20.8	20.5	104	102	63-118	2	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	19.1	19.3	95	96	72-118	1	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	21.3	21.0	106	105	72-168	1	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586587 1586588

Parameter	Units	30274827004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	19.5	19.3	97	96	66-143	1	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.6	21.6	108	108	67-145	0	30	
Acetone	ug/L	30.4	20	20	60.4	42.8	150	62	15-175	34	30	R1
Acrylonitrile	ug/L	4.0 U	20	20	21.2	20.3	106	102	36-165	4	30	
Benzene	ug/L	17.5	20	20	37.5	37.1	100	98	67-121	1	30	
Bromochloromethane	ug/L	1.0 U	20	20	21.5	20.5	107	102	62-128	5	30	
Bromodichloromethane	ug/L	1.0 U	20	20	19.2	18.7	96	93	66-127	3	30	
Bromoform	ug/L	1.0 U	20	20	13.9	13.8	70	69	71-127	1	30	ML
Bromomethane	ug/L	0.65J	20	20	10.3	13.4	48	64	10-156	26	30	
Carbon disulfide	ug/L	1.0 U	20	20	15.3	14.9	76	74	45-131	3	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.3	19.1	96	96	69-134	1	30	
Chlorobenzene	ug/L	1.0 U	20	20	20.0	20.0	100	100	69-119	0	30	
Chloroethane	ug/L	1.0 U	20	20	29.9	28.4	149	142	60-156	5	30	
Chloroform	ug/L	1.0 U	20	20	18.1	18.1	90	90	69-115	0	30	
Chloromethane	ug/L	0.78J	20	20	24.8	24.5	120	119	52-145	1	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.8	20.0	99	100	65-120	1	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.4	17.1	87	86	57-125	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	17.4	17.4	87	87	64-131	0	30	
Dibromomethane	ug/L	1.0 U	20	20	18.8	18.7	94	93	56-133	1	30	
Ethylbenzene	ug/L	1.3	20	20	21.8	20.6	102	96	70-127	6	30	
Iodomethane	ug/L	50.0 U	20	20	2.4J	4.1J	12	20	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	18.4	17.9	92	90	79-135	2	30	
Methylene Chloride	ug/L	1.0 U	20	20	22.3	22.8	112	114	54-133	2	30	
Naphthalene	ug/L	94.5	20	20	115	120	101	126	62-131	4	30	
Styrene	ug/L	0.63J	20	20	19.0	18.0	92	87	65-121	5	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.5	18.8	97	94	77-125	4	30	
Toluene	ug/L	2.5	20	20	22.0	21.4	97	94	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	21.0	21.2	105	106	70-119	1	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.8	16.8	84	84	52-125	0	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	13.9	13.3	70	67	13-100	5	30	
Trichloroethene	ug/L	1.0 U	20	20	19.2	19.3	96	96	74-128	1	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	31.1	30.6	155	153	54-164	1	30	
Vinyl acetate	ug/L	10.0 U	20	20	16.0	15.4	80	77	15-173	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	27.4	27.3	137	137	60-131	0	30	MH
Xylene (Total)	ug/L	12.6	60	60	73.1	72.7	101	100	69-128	1	30	
1,2-Dichloroethane-d4 (S)	%.						98	99	80-120			
4-Bromofluorobenzene (S)	%.						93	92	79-129			
Dibromofluoromethane (S)	%.						102	100	80-120			
Toluene-d8 (S)	%.						99	98	80-120			

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

QC Batch: 325591 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30274976005, 30274976006, 30274976007, 30274976008, 30274976009, 30274976011

METHOD BLANK: 1586589 Matrix: Water
Associated Lab Samples: 30274976005, 30274976006, 30274976007, 30274976008, 30274976009, 30274976011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/31/18 17:06	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/31/18 17:06	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/31/18 17:06	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/31/18 17:06	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/31/18 17:06	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/31/18 17:06	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/31/18 17:06	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/31/18 17:06	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/31/18 17:06	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/31/18 17:06	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/31/18 17:06	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/31/18 17:06	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/31/18 17:06	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/31/18 17:06	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/31/18 17:06	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/31/18 17:06	
Acetone	ug/L	10.0 U	10.0	2.8	12/31/18 17:06	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/31/18 17:06	
Benzene	ug/L	1.0 U	1.0	0.24	12/31/18 17:06	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/31/18 17:06	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/31/18 17:06	
Bromoform	ug/L	1.0 U	1.0	0.32	12/31/18 17:06	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/31/18 17:06	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/31/18 17:06	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/31/18 17:06	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/31/18 17:06	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/31/18 17:06	
Chloroform	ug/L	1.0 U	1.0	0.30	12/31/18 17:06	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/31/18 17:06	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/31/18 17:06	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/31/18 17:06	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/31/18 17:06	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/31/18 17:06	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/31/18 17:06	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/31/18 17:06	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/31/18 17:06	
Methylene Chloride	ug/L	1.9	1.0	0.77	12/31/18 17:06	C9
Naphthalene	ug/L	2.0 U	2.0	0.82	12/31/18 17:06	
Styrene	ug/L	1.0 U	1.0	0.17	12/31/18 17:06	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/31/18 17:06	
Toluene	ug/L	1.0 U	1.0	0.30	12/31/18 17:06	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

METHOD BLANK: 1586589 Matrix: Water
Associated Lab Samples: 30274976005, 30274976006, 30274976007, 30274976008, 30274976009, 30274976011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/31/18 17:06	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/31/18 17:06	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/31/18 17:06	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/31/18 17:06	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/31/18 17:06	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/31/18 17:06	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/31/18 17:06	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/31/18 17:06	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		12/31/18 17:06	
4-Bromofluorobenzene (S)	%.	97	79-129		12/31/18 17:06	
Dibromofluoromethane (S)	%.	104	80-120		12/31/18 17:06	
Toluene-d8 (S)	%.	93	80-120		12/31/18 17:06	

LABORATORY CONTROL SAMPLE: 1586590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	99	70-130	
1,1,1-Trichloroethane	ug/L	20	19.5	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	65-127	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	20.5	102	70-130	
1,1-Dichloroethene	ug/L	20	23.3	117	70-130	
1,2,3-Trichloropropane	ug/L	20	20.6	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.4	87	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	97	70-130	
1,2-Dichlorobenzene	ug/L	20	20.0	100	70-130	
1,2-Dichloroethane	ug/L	20	19.9	100	70-130	
1,2-Dichloropropane	ug/L	20	21.9	110	70-130	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	23.4	117	72-170	
2-Hexanone	ug/L	20	21.9	110	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.9	104	66-150	
Acetone	ug/L	20	23.7	118	30-179	
Acrylonitrile	ug/L	20	25.0	125	48-172	
Benzene	ug/L	20	20.4	102	70-130	
Bromochloromethane	ug/L	20	20.9	104	70-130	
Bromodichloromethane	ug/L	20	18.7	94	70-130	
Bromoform	ug/L	20	17.1	85	70-130	
Bromomethane	ug/L	20	14.2	71	47-174	
Carbon disulfide	ug/L	20	17.6	88	43-133	
Carbon tetrachloride	ug/L	20	19.7	99	56-143	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	21.9	110	67-139	
Chloroform	ug/L	20	18.6	93	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

LABORATORY CONTROL SAMPLE: 1586590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	19.3	97	57-138	
cis-1,2-Dichloroethene	ug/L	20	21.1	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	19.2	96	70-130	
Dibromomethane	ug/L	20	18.2	91	70-130	
Ethylbenzene	ug/L	20	20.6	103	70-130	
Iodomethane	ug/L	20	7.3J	36	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	19.5	98	70-130	
Methylene Chloride	ug/L	20	23.2	116	55-144	
Naphthalene	ug/L	20	20.2	101	70-130	
Styrene	ug/L	20	19.9	99	70-130	
Tetrachloroethene	ug/L	20	20.0	100	70-130	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.7	108	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	20.1	100	27-116	
Trichloroethene	ug/L	20	21.0	105	70-130	
Trichlorofluoromethane	ug/L	20	21.5	107	60-148	
Vinyl acetate	ug/L	20	18.1	90	30-181	
Vinyl chloride	ug/L	20	21.8	109	70-130	
Xylene (Total)	ug/L	60	63.5	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			93	80-120	
4-Bromofluorobenzene (S)	%.			94	79-129	
Dibromofluoromethane (S)	%.			96	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586591 1586592

Parameter	Units	30274976006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.7	19.0	89	95	51-124	7	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.7	19.9	98	100	79-129	1	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.0	18.9	90	95	57-118	5	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.1	19.9	95	99	68-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	21.3	21.6	106	108	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	22.7	22.6	113	113	63-126	0	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	18.5	19.3	93	97	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.4	15.6	72	78	53-120	8	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.2	19.6	91	98	69-124	8	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.0	19.8	95	99	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.3	19.5	97	98	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	21.5	21.6	107	108	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	18.8	19.3	94	96	72-118	3	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	21.2	22.7	106	113	72-168	7	30	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30274976

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586591 1586592

Parameter	Units	30274976006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	20.2	21.5	101	107	66-143	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.1	21.6	105	108	67-145	3	30	
Acetone	ug/L	10.0 U	20	20	18.6	19.9	91	98	15-175	7	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.9	23.5	110	117	36-165	7	30	
Benzene	ug/L	1.0 U	20	20	21.3	21.3	106	107	67-121	0	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.9	20.6	105	103	62-128	1	30	
Bromodichloromethane	ug/L	1.0 U	20	20	18.9	18.9	94	95	66-127	0	30	
Bromoform	ug/L	1.0 U	20	20	12.6	13.7	63	68	71-127	8	30	ML
Bromomethane	ug/L	1.0 U	20	20	6.2	6.6	31	33	10-156	5	30	
Carbon disulfide	ug/L	1.0 U	20	20	15.5	16.4	78	82	45-131	6	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.4	19.8	97	99	69-134	2	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.7	20.8	98	104	69-119	6	30	
Chloroethane	ug/L	1.0 U	20	20	34.9	31.2	175	156	60-156	11	30	MH
Chloroform	ug/L	1.0 U	20	20	18.5	18.7	93	94	69-115	1	30	
Chloromethane	ug/L	1.0 U	20	20	22.4	22.4	112	112	52-145	0	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	20.2	20.6	101	103	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.3	17.5	87	87	57-125	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.5	18.3	82	92	64-131	11	30	
Dibromomethane	ug/L	1.0 U	20	20	18.1	17.9	91	90	56-133	1	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.5	20.7	98	104	70-127	6	30	
Iodomethane	ug/L	50.0 U	20	20	2.5J	4.0J	12	20	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	18.6	18.8	93	94	79-135	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.2	20.5	101	102	54-133	1	30	
Naphthalene	ug/L	2.0 U	20	20	18.7	19.7	93	98	62-131	5	30	
Styrene	ug/L	1.0 U	20	20	18.9	19.9	94	99	65-121	5	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.1	20.4	95	102	77-125	7	30	
Toluene	ug/L	1.0 U	20	20	19.6	20.6	98	103	77-125	5	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	21.6	21.8	108	109	70-119	1	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	17.7	82	88	52-125	7	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	8.5	8.8	42	44	13-100	3	30	
Trichloroethene	ug/L	1.0 U	20	20	20.7	21.1	103	106	74-128	2	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	29.4	29.9	147	150	54-164	2	30	
Vinyl acetate	ug/L	10.0 U	20	20	15.6	16.3	78	81	15-173	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	28.3	28.1	141	141	60-131	1	30	MH
Xylene (Total)	ug/L	3.0 U	60	60	59.9	63.5	100	106	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						97	96	80-120			
4-Bromofluorobenzene (S)	%.						93	93	79-129			
Dibromofluoromethane (S)	%.						100	96	80-120			
Toluene-d8 (S)	%.						97	102	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30274976

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30274976

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30274976001	**Trip Blank**	EPA 8260B	325590		
30274976002	**CO60-PZM001**	EPA 8260B	325590		
30274976003	**CO26-PZM007**	EPA 8260B	325590		
30274976004	**CO103-PZMXXX**	EPA 8260B	325590		
30274976005	**CO102-PZMXXX**	EPA 8260B	325591		
30274976006	**CO43-PZM048**	EPA 8260B	325591		
30274976007	**CO44-PZM048**	EPA 8260B	325591		
30274976008	**CO45-PZM047**	EPA 8260B	325591		
30274976009	**CO46-PZM047**	EPA 8260B	325591		
30274976010	**CO47-PZM046**	EPA 8260B	325590		
30274976011	**CO48-PZM044**	EPA 8260B	325591		

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Section A — Required Client Information:
Company: EnviroAnalytics Group
Address: 1600 Sparrows Point Blvd, Suite B2
Sparrows Point, MD 21219
Mail To: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 Fax:
Requested Due Date/TAT: 5 Day

Section B — Required Project Information:
Report To: James Calenda
Copy To: Stewart Kabis
Purchase Order No.: EAG-SPT-6989
Project Name: COA IM GW Sampling
Project Number: 180227M-1-2

Section C — Invoice Information:
Attention: Laura Sargent
Company Name: EnviroAnalytics Group
Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager: Samantha Bayura
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MD

Requested Analysis Filtered (Y/N)

WO# : 30274976
30274976

Section D — Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
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ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOC + NAPH by 8260	Resid	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			12/19/18	—		2				2					X		
2	C060-PZM001	WT	G				0900		3				3					X		
3	C026-PZM007	WT	G				1000		3				3					X		
4	C0103-PZMXXX	WT	G				1050		3				3					X		
5	C0102-PZMXXX	WT	G				1115		3				3					X		
6	C043-PZM048	WT	G				1330		3				3					X		
7	C044-PZM048	WT	G				1340		3				3					X		
8	C045-PZM047	WT	G				1352		3				3					X		
9	C046-PZM047	WT	G				1405		3				3					X		
10	C047-PZM046	WT	G				1417		3				3					X		
11	C048-PZM044	WT	G				1430		3				3					X		
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No data pkgs		12/19/18	1720	David Hillman Pace	12/19/18	1720				
	Tom Hillman Pace	12/19/18	2000	Randy Sheep	12/19/18	2010		Y		
	Randy Sheep	12/19/18	2315	Pickup	12/19/18	2315	3.6	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perna
SIGNATURE of SAMPLER: Lisa Perna
DATE Signed (MM/DD/YY): 12/19/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Pace Analytical

Client Name: enviroanalytics Project #: # 30274976

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Label: BRH
LIMS Login: BRH

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Thermometer Used: 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp: 3.7 °C Correction Factor: -0.1 °C Final Temp: 3.6 °C

Temp should be above freezing to 6°C

pH paper Lot#: N/A

Date and Initials of person examining contents: BRH 12/20/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation.			✓ ✓	16.
exceptions: (VOA), coliform, TOC, O&G, Phenolics				Initial when completed: BRH Date/time of preservation:
				Lot # of added preservative:
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present: Trip Blank Custody Seals Present	✓ ✓			18.
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BRH Date:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

January 03, 2019

Mr. James Calenda
EnviroAnalytics Group, LLC
1600 Sparrows Point Blvd
Suite B2
Sparrows Point, MD 21219

RE: Project: COA IM GW Sampling
Pace Project No.: 30275126

Dear Mr. Calenda:
Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Samantha Bayura

Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

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CERTIFICATIONS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: COA IM GW Sampling
Pace Project No.: 30275126

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30275126001	**Trip Blank**	Water	12/20/18 00:00	12/20/18 23:45
30275126002	**CO72-PZM005**	Water	12/20/18 11:05	12/20/18 23:45
30275126003	**CO71-PZM006**	Water	12/20/18 11:15	12/20/18 23:45
30275126004	**CO70-PZM005**	Water	12/20/18 11:25	12/20/18 23:45
30275126005	**CO69-PZM005**	Water	12/20/18 11:50	12/20/18 23:45
30275126006	**CO68-PZM005**	Water	12/20/18 12:03	12/20/18 23:45
30275126007	**CO67-PZM006**	Water	12/20/18 12:20	12/20/18 23:45
30275126008	**CO66-PZM005**	Water	12/20/18 13:20	12/20/18 23:45
30275126009	**CO65-PZM005**	Water	12/20/18 13:48	12/20/18 23:45
30275126010	**CO64-PZM006**	Water	12/20/18 14:05	12/20/18 23:45
30275126011	**CO63-PZM007**	Water	12/20/18 14:27	12/20/18 23:45
30275126012	**CO62-PZM007**	Water	12/20/18 14:43	12/20/18 23:45
30275126013	**CO61-PZM007**	Water	12/20/18 15:01	12/20/18 23:45

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SAMPLE ANALYTE COUNT

Project: COA IM GW Sampling
Pace Project No.: 30275126

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30275126001	**Trip Blank**	EPA 8260B	LEL	53	PASI-PA
30275126002	**CO72-PZM005**	EPA 8260B	LEL	53	PASI-PA
30275126003	**CO71-PZM006**	EPA 8260B	LEL	53	PASI-PA
30275126004	**CO70-PZM005**	EPA 8260B	LEL	53	PASI-PA
30275126005	**CO69-PZM005**	EPA 8260B	LEL	53	PASI-PA
30275126006	**CO68-PZM005**	EPA 8260B	LEL	53	PASI-PA
30275126007	**CO67-PZM006**	EPA 8260B	LEL	53	PASI-PA
30275126008	**CO66-PZM005**	EPA 8260B	LEL	53	PASI-PA
30275126009	**CO65-PZM005**	EPA 8260B	LEL	53	PASI-PA
30275126010	**CO64-PZM006**	EPA 8260B	LEL	53	PASI-PA
30275126011	**CO63-PZM007**	EPA 8260B	LEL	53	PASI-PA
30275126012	**CO62-PZM007**	EPA 8260B	LEL	53	PASI-PA
30275126013	**CO61-PZM007**	EPA 8260B	LEL	53	PASI-PA

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: Trip Blank **Lab ID: 30275126001** Collected: 12/20/18 00:00 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 17:30	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:30	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:30	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:30	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 17:30	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:30	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 17:30	96-18-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.96	1		12/31/18 17:30	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:30	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 17:30	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:30	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 17:30	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 17:30	106-46-7	
2-Butanone (MEK)	ND	ug/L	5.0	2.1	1		12/31/18 17:30	78-93-3	
2-Hexanone	ND	ug/L	5.0	0.66	1		12/31/18 17:30	591-78-6	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.37	1		12/31/18 17:30	108-10-1	
Acetone	ND	ug/L	5.0	2.8	1		12/31/18 17:30	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 17:30	107-13-1	
Benzene	**1.0 U**	ug/L	1.0	0.24	1		12/31/18 17:30	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:30	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 17:30	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:30	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 17:30	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:30	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 17:30	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 17:30	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 17:30	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:30	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 17:30	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 17:30	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 17:30	74-95-3	
Ethylbenzene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:30	100-41-4	
Iodomethane	ND	ug/L	1.0	0.67	1		12/31/18 17:30	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 17:30	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 17:30	75-09-2	
Naphthalene	**2.0 U**	ug/L	2.0	0.82	1		12/31/18 17:30	91-20-3	
Styrene	**1.0 U**	ug/L	1.0	0.17	1		12/31/18 17:30	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 17:30	127-18-4	
Toluene	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 17:30	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 17:30	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 17:30	75-69-4	
Vinyl acetate	ND	ug/L	2.0	0.51	1		12/31/18 17:30	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 17:30	75-01-4	
Xylene (Total)	ND	ug/L	1.0	0.78	1		12/31/18 17:30	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 17:30	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 17:30	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: Trip Blank **Lab ID: 30275126001** Collected: 12/20/18 00:00 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 17:30	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 17:30	10061-02-6	
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0	0.62	1		12/31/18 17:30	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	79-129		1		12/31/18 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	80-120		1		12/31/18 17:30	17060-07-0	
Toluene-d8 (S)	93	%.	80-120		1		12/31/18 17:30	2037-26-5	
Dibromofluoromethane (S)	105	%.	80-120		1		12/31/18 17:30	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO72-PZM005 **Lab ID: 30275126002** Collected: 12/20/18 11:05 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 22:51	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 22:51	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 22:51	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 22:51	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/31/18 22:51	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 22:51	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/31/18 22:51	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/31/18 22:51	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 22:51	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/31/18 22:51	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 22:51	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 22:51	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 22:51	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/31/18 22:51	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/31/18 22:51	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/31/18 22:51	108-10-1	
Acetone	**46.4J**	ug/L	50.0	14.2	5		12/31/18 22:51	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/31/18 22:51	107-13-1	
Benzene	**170**	ug/L	5.0	1.2	5		12/31/18 22:51	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 22:51	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 22:51	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 22:51	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/31/18 22:51	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 22:51	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 22:51	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/31/18 22:51	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 22:51	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/31/18 22:51	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/31/18 22:51	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 22:51	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 22:51	74-95-3	
Ethylbenzene	**7.6**	ug/L	5.0	1.6	5		12/31/18 22:51	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/31/18 22:51	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 22:51	1634-04-4	
Methylene Chloride	**8.5**	ug/L	5.0	3.8	5		12/31/18 22:51	75-09-2	B
Naphthalene	**1690**	ug/L	10.0	4.1	5		12/31/18 22:51	91-20-3	
Styrene	**27.4**	ug/L	5.0	0.85	5		12/31/18 22:51	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 22:51	127-18-4	
Toluene	**24.4**	ug/L	5.0	1.5	5		12/31/18 22:51	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 22:51	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 22:51	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/31/18 22:51	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 22:51	75-01-4	
Xylene (Total)	**159**	ug/L	15.0	3.9	5		12/31/18 22:51	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/31/18 22:51	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 22:51	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO72-PZM005 **Lab ID: 30275126002** Collected: 12/20/18 11:05 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/31/18 22:51	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/31/18 22:51	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/31/18 22:51	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	79-129		5		12/31/18 22:51	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		12/31/18 22:51	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		12/31/18 22:51	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		5		12/31/18 22:51	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO71-PZM006 **Lab ID: 30275126003** Collected: 12/20/18 11:15 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 19:58	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 19:58	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 19:58	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 19:58	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		12/31/18 19:58	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 19:58	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		12/31/18 19:58	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		12/31/18 19:58	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 19:58	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		12/31/18 19:58	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 19:58	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 19:58	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		12/31/18 19:58	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		12/31/18 19:58	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		12/31/18 19:58	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		12/31/18 19:58	108-10-1	
Acetone	**40.8J**	ug/L	50.0	14.2	5		12/31/18 19:58	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		12/31/18 19:58	107-13-1	
Benzene	**181**	ug/L	5.0	1.2	5		12/31/18 19:58	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 19:58	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 19:58	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 19:58	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		12/31/18 19:58	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 19:58	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		12/31/18 19:58	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		12/31/18 19:58	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		12/31/18 19:58	75-00-3	
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		12/31/18 19:58	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		12/31/18 19:58	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 19:58	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 19:58	74-95-3	
Ethylbenzene	**9.0**	ug/L	5.0	1.6	5		12/31/18 19:58	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		12/31/18 19:58	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 19:58	1634-04-4	
Methylene Chloride	**8.6**	ug/L	5.0	3.8	5		12/31/18 19:58	75-09-2	B
Naphthalene	**1660**	ug/L	10.0	4.1	5		12/31/18 19:58	91-20-3	
Styrene	**30.7**	ug/L	5.0	0.85	5		12/31/18 19:58	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 19:58	127-18-4	
Toluene	**26.7**	ug/L	5.0	1.5	5		12/31/18 19:58	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		12/31/18 19:58	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		12/31/18 19:58	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		12/31/18 19:58	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		12/31/18 19:58	75-01-4	
Xylene (Total)	**178**	ug/L	15.0	3.9	5		12/31/18 19:58	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		12/31/18 19:58	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		12/31/18 19:58	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO71-PZM006 **Lab ID: 30275126003** Collected: 12/20/18 11:15 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		12/31/18 19:58	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		12/31/18 19:58	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		12/31/18 19:58	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%.	79-129		5		12/31/18 19:58	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	80-120		5		12/31/18 19:58	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		12/31/18 19:58	2037-26-5	
Dibromofluoromethane (S)	104	%.	80-120		5		12/31/18 19:58	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO70-PZM005 **Lab ID: 30275126004** Collected: 12/20/18 11:25 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 20:23	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 20:23	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 20:23	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 20:23	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 20:23	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 20:23	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 20:23	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 20:23	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 20:23	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 20:23	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 20:23	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 20:23	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 20:23	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 20:23	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 20:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 20:23	108-10-1	
Acetone	**3.6J**	ug/L	10.0	2.8	1		12/31/18 20:23	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 20:23	107-13-1	
Benzene	**74.7**	ug/L	1.0	0.24	1		12/31/18 20:23	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 20:23	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 20:23	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 20:23	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 20:23	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 20:23	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 20:23	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		12/31/18 20:23	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 20:23	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 20:23	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 20:23	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 20:23	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 20:23	74-95-3	
Ethylbenzene	**3.9**	ug/L	1.0	0.31	1		12/31/18 20:23	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 20:23	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 20:23	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 20:23	75-09-2	
Naphthalene	**643**	ug/L	40.0	16.4	20		12/31/18 20:48	91-20-3	
Styrene	**5.8**	ug/L	1.0	0.17	1		12/31/18 20:23	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 20:23	127-18-4	
Toluene	**12.8**	ug/L	1.0	0.30	1		12/31/18 20:23	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 20:23	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 20:23	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 20:23	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 20:23	75-01-4	
Xylene (Total)	**69.5**	ug/L	3.0	0.78	1		12/31/18 20:23	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 20:23	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 20:23	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO70-PZM005 **Lab ID: 30275126004** Collected: 12/20/18 11:25 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 20:23	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 20:23	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 20:23	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	79-129		1		12/31/18 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		1		12/31/18 20:23	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		12/31/18 20:23	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		1		12/31/18 20:23	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO69-PZM005 **Lab ID: 30275126005** Collected: 12/20/18 11:50 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 21:12	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 21:12	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 21:12	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 21:12	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 21:12	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 21:12	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 21:12	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 21:12	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 21:12	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 21:12	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 21:12	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 21:12	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 21:12	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 21:12	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 21:12	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 21:12	108-10-1	
Acetone	**5.6J**	ug/L	10.0	2.8	1		12/31/18 21:12	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 21:12	107-13-1	
Benzene	**152**	ug/L	1.0	0.24	1		12/31/18 21:12	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 21:12	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 21:12	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 21:12	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 21:12	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 21:12	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 21:12	56-23-5	
Chlorobenzene	**0.43J**	ug/L	1.0	0.15	1		12/31/18 21:12	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 21:12	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 21:12	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 21:12	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 21:12	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 21:12	74-95-3	
Ethylbenzene	**7.3**	ug/L	1.0	0.31	1		12/31/18 21:12	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 21:12	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 21:12	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 21:12	75-09-2	
Naphthalene	**705**	ug/L	40.0	16.4	20		12/31/18 21:37	91-20-3	
Styrene	**17.2**	ug/L	1.0	0.17	1		12/31/18 21:12	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 21:12	127-18-4	
Toluene	**28.8**	ug/L	1.0	0.30	1		12/31/18 21:12	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 21:12	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 21:12	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 21:12	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 21:12	75-01-4	
Xylene (Total)	**143**	ug/L	3.0	0.78	1		12/31/18 21:12	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 21:12	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 21:12	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO69-PZM005 **Lab ID: 30275126005** Collected: 12/20/18 11:50 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 21:12	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 21:12	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 21:12	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	79-129		1		12/31/18 21:12	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		12/31/18 21:12	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		12/31/18 21:12	2037-26-5	
Dibromofluoromethane (S)	95	%.	80-120		1		12/31/18 21:12	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO68-PZM005 **Lab ID: 30275126006** Collected: 12/20/18 12:03 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		12/31/18 22:01	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 22:01	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 22:01	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 22:01	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		12/31/18 22:01	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 22:01	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		12/31/18 22:01	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		12/31/18 22:01	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 22:01	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		12/31/18 22:01	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 22:01	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		12/31/18 22:01	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		12/31/18 22:01	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		12/31/18 22:01	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		12/31/18 22:01	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		12/31/18 22:01	108-10-1	
Acetone	**4.1J**	ug/L	10.0	2.8	1		12/31/18 22:01	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		12/31/18 22:01	107-13-1	
Benzene	**171**	ug/L	1.0	0.24	1		12/31/18 22:01	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 22:01	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		12/31/18 22:01	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 22:01	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		12/31/18 22:01	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 22:01	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		12/31/18 22:01	56-23-5	
Chlorobenzene	**0.33J**	ug/L	1.0	0.15	1		12/31/18 22:01	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		12/31/18 22:01	75-00-3	
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		12/31/18 22:01	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		12/31/18 22:01	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		12/31/18 22:01	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		12/31/18 22:01	74-95-3	
Ethylbenzene	**9.4**	ug/L	1.0	0.31	1		12/31/18 22:01	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		12/31/18 22:01	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		12/31/18 22:01	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		12/31/18 22:01	75-09-2	
Naphthalene	**1210**	ug/L	40.0	16.4	20		12/31/18 22:26	91-20-3	
Styrene	**15.7**	ug/L	1.0	0.17	1		12/31/18 22:01	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		12/31/18 22:01	127-18-4	
Toluene	**37.6**	ug/L	1.0	0.30	1		12/31/18 22:01	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		12/31/18 22:01	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		12/31/18 22:01	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		12/31/18 22:01	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		12/31/18 22:01	75-01-4	
Xylene (Total)	**167**	ug/L	3.0	0.78	1		12/31/18 22:01	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		12/31/18 22:01	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		12/31/18 22:01	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO68-PZM005 **Lab ID: 30275126006** Collected: 12/20/18 12:03 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		12/31/18 22:01	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		12/31/18 22:01	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		12/31/18 22:01	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	79-129		1		12/31/18 22:01	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%.	80-120		1		12/31/18 22:01	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		1		12/31/18 22:01	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		12/31/18 22:01	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO67-PZM006 **Lab ID: 30275126007** Collected: 12/20/18 12:20 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		01/02/19 16:44	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		01/02/19 16:44	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 16:44	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 16:44	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		01/02/19 16:44	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		01/02/19 16:44	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		01/02/19 16:44	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		01/02/19 16:44	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 16:44	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		01/02/19 16:44	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		01/02/19 16:44	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		01/02/19 16:44	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 16:44	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		01/02/19 16:44	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		01/02/19 16:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		01/02/19 16:44	108-10-1	
Acetone	**5.1J**	ug/L	10.0	2.8	1		01/02/19 16:44	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		01/02/19 16:44	107-13-1	
Benzene	**120**	ug/L	1.0	0.24	1		01/02/19 16:44	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 16:44	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		01/02/19 16:44	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 16:44	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		01/02/19 16:44	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 16:44	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 16:44	56-23-5	
Chlorobenzene	**0.35J**	ug/L	1.0	0.15	1		01/02/19 16:44	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		01/02/19 16:44	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		01/02/19 16:44	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		01/02/19 16:44	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		01/02/19 16:44	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		01/02/19 16:44	74-95-3	
Ethylbenzene	**3.8**	ug/L	1.0	0.31	1		01/02/19 16:44	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		01/02/19 16:44	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		01/02/19 16:44	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		01/02/19 16:44	75-09-2	
Naphthalene	**187**	ug/L	2.0	0.82	1		01/02/19 16:44	91-20-3	
Styrene	**4.5**	ug/L	1.0	0.17	1		01/02/19 16:44	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 16:44	127-18-4	
Toluene	**17.1**	ug/L	1.0	0.30	1		01/02/19 16:44	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		01/02/19 16:44	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		01/02/19 16:44	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		01/02/19 16:44	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		01/02/19 16:44	75-01-4	L1
Xylene (Total)	**59.5**	ug/L	3.0	0.78	1		01/02/19 16:44	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		01/02/19 16:44	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		01/02/19 16:44	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO67-PZM006 **Lab ID: 30275126007** Collected: 12/20/18 12:20 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		01/02/19 16:44	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		01/02/19 16:44	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		01/02/19 16:44	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%.	79-129		1		01/02/19 16:44	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		1		01/02/19 16:44	17060-07-0	
Toluene-d8 (S)	99	%.	80-120		1		01/02/19 16:44	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		1		01/02/19 16:44	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO66-PZM005 **Lab ID: 30275126008** Collected: 12/20/18 13:20 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 19:11	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 19:11	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 19:11	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 19:11	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/02/19 19:11	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 19:11	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/02/19 19:11	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/02/19 19:11	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 19:11	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/02/19 19:11	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 19:11	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 19:11	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 19:11	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/02/19 19:11	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/02/19 19:11	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/02/19 19:11	108-10-1	
Acetone	**21.9J**	ug/L	50.0	14.2	5		01/02/19 19:11	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/02/19 19:11	107-13-1	
Benzene	**201**	ug/L	5.0	1.2	5		01/02/19 19:11	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 19:11	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 19:11	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 19:11	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/02/19 19:11	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 19:11	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 19:11	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/02/19 19:11	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 19:11	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/02/19 19:11	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/02/19 19:11	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 19:11	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 19:11	74-95-3	
Ethylbenzene	**10.2**	ug/L	5.0	1.6	5		01/02/19 19:11	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/02/19 19:11	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 19:11	1634-04-4	
Methylene Chloride	**9.9**	ug/L	5.0	3.8	5		01/02/19 19:11	75-09-2	B
Naphthalene	**1780**	ug/L	10.0	4.1	5		01/02/19 19:11	91-20-3	
Styrene	**19.7**	ug/L	5.0	0.85	5		01/02/19 19:11	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 19:11	127-18-4	
Toluene	**52.7**	ug/L	5.0	1.5	5		01/02/19 19:11	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 19:11	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 19:11	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/02/19 19:11	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 19:11	75-01-4	L1
Xylene (Total)	**156**	ug/L	15.0	3.9	5		01/02/19 19:11	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/02/19 19:11	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 19:11	10061-01-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO66-PZM005 **Lab ID: 30275126008** Collected: 12/20/18 13:20 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/02/19 19:11	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/02/19 19:11	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/02/19 19:11	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		5		01/02/19 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		01/02/19 19:11	17060-07-0	
Toluene-d8 (S)	94	%.	80-120		5		01/02/19 19:11	2037-26-5	
Dibromofluoromethane (S)	102	%.	80-120		5		01/02/19 19:11	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO65-PZM005 **Lab ID: 30275126009** Collected: 12/20/18 13:48 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 20:00	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:00	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 20:00	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:00	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/02/19 20:00	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:00	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/02/19 20:00	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/02/19 20:00	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:00	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/02/19 20:00	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 20:00	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:00	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:00	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/02/19 20:00	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/02/19 20:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/02/19 20:00	108-10-1	
Acetone	**50.0 U**	ug/L	50.0	14.2	5		01/02/19 20:00	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/02/19 20:00	107-13-1	
Benzene	**423**	ug/L	5.0	1.2	5		01/02/19 20:00	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 20:00	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:00	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:00	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/02/19 20:00	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:00	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 20:00	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/02/19 20:00	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 20:00	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/02/19 20:00	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/02/19 20:00	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:00	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 20:00	74-95-3	
Ethylbenzene	**21.6**	ug/L	5.0	1.6	5		01/02/19 20:00	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/02/19 20:00	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 20:00	1634-04-4	
Methylene Chloride	**8.2**	ug/L	5.0	3.8	5		01/02/19 20:00	75-09-2	B
Naphthalene	**3870**	ug/L	100	41.0	50		01/02/19 20:25	91-20-3	
Styrene	**56.2**	ug/L	5.0	0.85	5		01/02/19 20:00	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:00	127-18-4	
Toluene	**185**	ug/L	5.0	1.5	5		01/02/19 20:00	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 20:00	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:00	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/02/19 20:00	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:00	75-01-4	L1
Xylene (Total)	**366**	ug/L	15.0	3.9	5		01/02/19 20:00	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/02/19 20:00	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 20:00	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO65-PZM005 **Lab ID: 30275126009** Collected: 12/20/18 13:48 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/02/19 20:00	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/02/19 20:00	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/02/19 20:00	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	79-129		5		01/02/19 20:00	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	80-120		5		01/02/19 20:00	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		01/02/19 20:00	2037-26-5	
Dibromofluoromethane (S)	98	%.	80-120		5		01/02/19 20:00	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO64-PZM006 **Lab ID: 30275126010** Collected: 12/20/18 14:05 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 20:49	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:49	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 20:49	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:49	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/02/19 20:49	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:49	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/02/19 20:49	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/02/19 20:49	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:49	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/02/19 20:49	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 20:49	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:49	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 20:49	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/02/19 20:49	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/02/19 20:49	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/02/19 20:49	108-10-1	
Acetone	**37.8J**	ug/L	50.0	14.2	5		01/02/19 20:49	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/02/19 20:49	107-13-1	
Benzene	**447**	ug/L	5.0	1.2	5		01/02/19 20:49	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 20:49	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:49	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:49	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/02/19 20:49	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:49	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 20:49	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/02/19 20:49	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 20:49	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/02/19 20:49	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/02/19 20:49	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:49	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 20:49	74-95-3	
Ethylbenzene	**22.5**	ug/L	5.0	1.6	5		01/02/19 20:49	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/02/19 20:49	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 20:49	1634-04-4	
Methylene Chloride	**10.6**	ug/L	5.0	3.8	5		01/02/19 20:49	75-09-2	B
Naphthalene	**3830**	ug/L	100	41.0	50		01/02/19 21:14	91-20-3	
Styrene	**43.7**	ug/L	5.0	0.85	5		01/02/19 20:49	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:49	127-18-4	
Toluene	**190**	ug/L	5.0	1.5	5		01/02/19 20:49	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 20:49	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 20:49	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/02/19 20:49	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 20:49	75-01-4	L1
Xylene (Total)	**378**	ug/L	15.0	3.9	5		01/02/19 20:49	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/02/19 20:49	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 20:49	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO64-PZM006 **Lab ID: 30275126010** Collected: 12/20/18 14:05 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/02/19 20:49	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/02/19 20:49	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/02/19 20:49	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	79-129		5		01/02/19 20:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	80-120		5		01/02/19 20:49	17060-07-0	
Toluene-d8 (S)	97	%.	80-120		5		01/02/19 20:49	2037-26-5	
Dibromofluoromethane (S)	101	%.	80-120		5		01/02/19 20:49	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO63-PZM007 **Lab ID: 30275126011** Collected: 12/20/18 14:27 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 21:38	630-20-6	
1,1,1-Trichloroethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 21:38	71-55-6	
1,1,2,2-Tetrachloroethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 21:38	79-34-5	
1,1,2-Trichloroethane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 21:38	79-00-5	
1,1-Dichloroethane	**5.0 U**	ug/L	5.0	0.95	5		01/02/19 21:38	75-34-3	
1,1-Dichloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 21:38	75-35-4	
1,2,3-Trichloropropane	**5.0 U**	ug/L	5.0	2.2	5		01/02/19 21:38	96-18-4	
1,2-Dibromo-3-chloropropane	**25.0 U**	ug/L	25.0	4.8	5		01/02/19 21:38	96-12-8	
1,2-Dibromoethane (EDB)	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 21:38	106-93-4	
1,2-Dichlorobenzene	**5.0 U**	ug/L	5.0	2.5	5		01/02/19 21:38	95-50-1	
1,2-Dichloroethane	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 21:38	107-06-2	
1,2-Dichloropropane	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 21:38	78-87-5	
1,4-Dichlorobenzene	**5.0 U**	ug/L	5.0	1.0	5		01/02/19 21:38	106-46-7	
2-Butanone (MEK)	**50.0 U**	ug/L	50.0	10.5	5		01/02/19 21:38	78-93-3	
2-Hexanone	**50.0 U**	ug/L	50.0	3.3	5		01/02/19 21:38	591-78-6	
4-Methyl-2-pentanone (MIBK)	**50.0 U**	ug/L	50.0	1.8	5		01/02/19 21:38	108-10-1	
Acetone	**34.2J**	ug/L	50.0	14.2	5		01/02/19 21:38	67-64-1	
Acrylonitrile	**20.0 U**	ug/L	20.0	3.2	5		01/02/19 21:38	107-13-1	
Benzene	**459**	ug/L	5.0	1.2	5		01/02/19 21:38	71-43-2	
Bromochloromethane	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 21:38	74-97-5	
Bromodichloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 21:38	75-27-4	
Bromoform	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 21:38	75-25-2	
Bromomethane	**5.0 U**	ug/L	5.0	2.4	5		01/02/19 21:38	74-83-9	
Carbon disulfide	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 21:38	75-15-0	
Carbon tetrachloride	**5.0 U**	ug/L	5.0	1.7	5		01/02/19 21:38	56-23-5	
Chlorobenzene	**5.0 U**	ug/L	5.0	0.75	5		01/02/19 21:38	108-90-7	
Chloroethane	**5.0 U**	ug/L	5.0	2.8	5		01/02/19 21:38	75-00-3	L1
Chloroform	**5.0 U**	ug/L	5.0	1.5	5		01/02/19 21:38	67-66-3	
Chloromethane	**5.0 U**	ug/L	5.0	3.4	5		01/02/19 21:38	74-87-3	
Dibromochloromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 21:38	124-48-1	
Dibromomethane	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 21:38	74-95-3	
Ethylbenzene	**24.6**	ug/L	5.0	1.6	5		01/02/19 21:38	100-41-4	
Iodomethane	**250 U**	ug/L	250	3.4	5		01/02/19 21:38	74-88-4	CL,IH
Methyl-tert-butyl ether	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 21:38	1634-04-4	
Methylene Chloride	**10.4**	ug/L	5.0	3.8	5		01/02/19 21:38	75-09-2	B
Naphthalene	**4070**	ug/L	100	41.0	50		01/02/19 22:03	91-20-3	
Styrene	**60.2**	ug/L	5.0	0.85	5		01/02/19 21:38	100-42-5	
Tetrachloroethene	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 21:38	127-18-4	
Toluene	**204**	ug/L	5.0	1.5	5		01/02/19 21:38	108-88-3	
Trichloroethene	**5.0 U**	ug/L	5.0	2.0	5		01/02/19 21:38	79-01-6	
Trichlorofluoromethane	**5.0 U**	ug/L	5.0	1.4	5		01/02/19 21:38	75-69-4	
Vinyl acetate	**50.0 U**	ug/L	50.0	2.6	5		01/02/19 21:38	108-05-4	
Vinyl chloride	**5.0 U**	ug/L	5.0	1.6	5		01/02/19 21:38	75-01-4	L1
Xylene (Total)	**400**	ug/L	15.0	3.9	5		01/02/19 21:38	1330-20-7	
cis-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	0.90	5		01/02/19 21:38	156-59-2	
cis-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.2	5		01/02/19 21:38	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO63-PZM007 **Lab ID: 30275126011** Collected: 12/20/18 14:27 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**5.0 U**	ug/L	5.0	1.1	5		01/02/19 21:38	156-60-5	
trans-1,3-Dichloropropene	**5.0 U**	ug/L	5.0	1.3	5		01/02/19 21:38	10061-02-6	
trans-1,4-Dichloro-2-butene	**25.0 U**	ug/L	25.0	3.1	5		01/02/19 21:38	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	79-129		5		01/02/19 21:38	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	80-120		5		01/02/19 21:38	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		5		01/02/19 21:38	2037-26-5	
Dibromofluoromethane (S)	99	%.	80-120		5		01/02/19 21:38	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO62-PZM007 **Lab ID: 30275126012** Collected: 12/20/18 14:43 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		01/02/19 17:33	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		01/02/19 17:33	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 17:33	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 17:33	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		01/02/19 17:33	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		01/02/19 17:33	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		01/02/19 17:33	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		01/02/19 17:33	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 17:33	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		01/02/19 17:33	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		01/02/19 17:33	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		01/02/19 17:33	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 17:33	106-46-7	
2-Butanone (MEK)	**75.4**	ug/L	10.0	2.1	1		01/02/19 17:33	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		01/02/19 17:33	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		01/02/19 17:33	108-10-1	
Acetone	**85.1**	ug/L	10.0	2.8	1		01/02/19 17:33	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		01/02/19 17:33	107-13-1	
Benzene	**13.5**	ug/L	1.0	0.24	1		01/02/19 17:33	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 17:33	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		01/02/19 17:33	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 17:33	75-25-2	
Bromomethane	**0.68J**	ug/L	1.0	0.49	1		01/02/19 17:33	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 17:33	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 17:33	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		01/02/19 17:33	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		01/02/19 17:33	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		01/02/19 17:33	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		01/02/19 17:33	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		01/02/19 17:33	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		01/02/19 17:33	74-95-3	
Ethylbenzene	**2.8**	ug/L	1.0	0.31	1		01/02/19 17:33	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		01/02/19 17:33	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		01/02/19 17:33	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		01/02/19 17:33	75-09-2	
Naphthalene	**3.1**	ug/L	2.0	0.82	1		01/02/19 17:33	91-20-3	
Styrene	**1.1**	ug/L	1.0	0.17	1		01/02/19 17:33	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 17:33	127-18-4	
Toluene	**16.7**	ug/L	1.0	0.30	1		01/02/19 17:33	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		01/02/19 17:33	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		01/02/19 17:33	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		01/02/19 17:33	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		01/02/19 17:33	75-01-4	L1
Xylene (Total)	**32.1**	ug/L	3.0	0.78	1		01/02/19 17:33	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		01/02/19 17:33	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		01/02/19 17:33	10061-01-5	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO62-PZM007 **Lab ID: 30275126012** Collected: 12/20/18 14:43 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		01/02/19 17:33	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		01/02/19 17:33	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		01/02/19 17:33	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	79-129		1		01/02/19 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		01/02/19 17:33	17060-07-0	
Toluene-d8 (S)	96	%.	80-120		1		01/02/19 17:33	2037-26-5	
Dibromofluoromethane (S)	97	%.	80-120		1		01/02/19 17:33	1868-53-7	

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ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO61-PZM007 **Lab ID: 30275126013** Collected: 12/20/18 15:01 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
1,1,1,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.56	1		01/02/19 18:22	630-20-6	
1,1,1-Trichloroethane	**1.0 U**	ug/L	1.0	0.28	1		01/02/19 18:22	71-55-6	
1,1,2,2-Tetrachloroethane	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 18:22	79-34-5	
1,1,2-Trichloroethane	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 18:22	79-00-5	
1,1-Dichloroethane	**1.0 U**	ug/L	1.0	0.19	1		01/02/19 18:22	75-34-3	
1,1-Dichloroethene	**1.0 U**	ug/L	1.0	0.31	1		01/02/19 18:22	75-35-4	
1,2,3-Trichloropropane	**1.0 U**	ug/L	1.0	0.44	1		01/02/19 18:22	96-18-4	
1,2-Dibromo-3-chloropropane	**5.0 U**	ug/L	5.0	0.96	1		01/02/19 18:22	96-12-8	
1,2-Dibromoethane (EDB)	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 18:22	106-93-4	
1,2-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.50	1		01/02/19 18:22	95-50-1	
1,2-Dichloroethane	**1.0 U**	ug/L	1.0	0.25	1		01/02/19 18:22	107-06-2	
1,2-Dichloropropane	**1.0 U**	ug/L	1.0	0.21	1		01/02/19 18:22	78-87-5	
1,4-Dichlorobenzene	**1.0 U**	ug/L	1.0	0.20	1		01/02/19 18:22	106-46-7	
2-Butanone (MEK)	**10.0 U**	ug/L	10.0	2.1	1		01/02/19 18:22	78-93-3	
2-Hexanone	**10.0 U**	ug/L	10.0	0.66	1		01/02/19 18:22	591-78-6	
4-Methyl-2-pentanone (MIBK)	**10.0 U**	ug/L	10.0	0.37	1		01/02/19 18:22	108-10-1	
Acetone	**10.0 U**	ug/L	10.0	2.8	1		01/02/19 18:22	67-64-1	
Acrylonitrile	**4.0 U**	ug/L	4.0	0.63	1		01/02/19 18:22	107-13-1	
Benzene	**435**	ug/L	20.0	4.8	20		01/02/19 18:46	71-43-2	
Bromochloromethane	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 18:22	74-97-5	
Bromodichloromethane	**1.0 U**	ug/L	1.0	0.29	1		01/02/19 18:22	75-27-4	
Bromoform	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 18:22	75-25-2	
Bromomethane	**1.0 U**	ug/L	1.0	0.49	1		01/02/19 18:22	74-83-9	
Carbon disulfide	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 18:22	75-15-0	
Carbon tetrachloride	**1.0 U**	ug/L	1.0	0.34	1		01/02/19 18:22	56-23-5	
Chlorobenzene	**1.0 U**	ug/L	1.0	0.15	1		01/02/19 18:22	108-90-7	
Chloroethane	**1.0 U**	ug/L	1.0	0.55	1		01/02/19 18:22	75-00-3	L1
Chloroform	**1.0 U**	ug/L	1.0	0.30	1		01/02/19 18:22	67-66-3	
Chloromethane	**1.0 U**	ug/L	1.0	0.68	1		01/02/19 18:22	74-87-3	
Dibromochloromethane	**1.0 U**	ug/L	1.0	0.27	1		01/02/19 18:22	124-48-1	
Dibromomethane	**1.0 U**	ug/L	1.0	0.40	1		01/02/19 18:22	74-95-3	
Ethylbenzene	**25.7**	ug/L	1.0	0.31	1		01/02/19 18:22	100-41-4	
Iodomethane	**50.0 U**	ug/L	50.0	0.67	1		01/02/19 18:22	74-88-4	CL,IH
Methyl-tert-butyl ether	**1.0 U**	ug/L	1.0	0.23	1		01/02/19 18:22	1634-04-4	
Methylene Chloride	**1.0 U**	ug/L	1.0	0.77	1		01/02/19 18:22	75-09-2	
Naphthalene	**3770**	ug/L	40.0	16.4	20		01/02/19 18:46	91-20-3	
Styrene	**66.3**	ug/L	1.0	0.17	1		01/02/19 18:22	100-42-5	
Tetrachloroethene	**1.0 U**	ug/L	1.0	0.32	1		01/02/19 18:22	127-18-4	
Toluene	**246**	ug/L	1.0	0.30	1		01/02/19 18:22	108-88-3	
Trichloroethene	**1.0 U**	ug/L	1.0	0.39	1		01/02/19 18:22	79-01-6	
Trichlorofluoromethane	**1.0 U**	ug/L	1.0	0.28	1		01/02/19 18:22	75-69-4	
Vinyl acetate	**10.0 U**	ug/L	10.0	0.51	1		01/02/19 18:22	108-05-4	
Vinyl chloride	**1.0 U**	ug/L	1.0	0.31	1		01/02/19 18:22	75-01-4	L1
Xylene (Total)	**428**	ug/L	3.0	0.78	1		01/02/19 18:22	1330-20-7	
cis-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.18	1		01/02/19 18:22	156-59-2	
cis-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.25	1		01/02/19 18:22	10061-01-5	

REPORT OF LABORATORY ANALYSIS

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(724)850-5600

ANALYTICAL RESULTS

Project: COA IM GW Sampling
Pace Project No.: 30275126

Sample: CO61-PZM007 **Lab ID: 30275126013** Collected: 12/20/18 15:01 Received: 12/20/18 23:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
trans-1,2-Dichloroethene	**1.0 U**	ug/L	1.0	0.22	1		01/02/19 18:22	156-60-5	
trans-1,3-Dichloropropene	**1.0 U**	ug/L	1.0	0.26	1		01/02/19 18:22	10061-02-6	
trans-1,4-Dichloro-2-butene	**5.0 U**	ug/L	5.0	0.62	1		01/02/19 18:22	110-57-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	79-129		1		01/02/19 18:22	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%.	80-120		1		01/02/19 18:22	17060-07-0	
Toluene-d8 (S)	98	%.	80-120		1		01/02/19 18:22	2037-26-5	
Dibromofluoromethane (S)	94	%.	80-120		1		01/02/19 18:22	1868-53-7	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

QC Batch: 325591 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30275126001, 30275126002, 30275126003, 30275126004, 30275126005, 30275126006

METHOD BLANK: 1586589 Matrix: Water
Associated Lab Samples: 30275126001, 30275126002, 30275126003, 30275126004, 30275126005, 30275126006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	12/31/18 17:06	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	12/31/18 17:06	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	12/31/18 17:06	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	12/31/18 17:06	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	12/31/18 17:06	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	12/31/18 17:06	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	12/31/18 17:06	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	12/31/18 17:06	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	12/31/18 17:06	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	12/31/18 17:06	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	12/31/18 17:06	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	12/31/18 17:06	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	12/31/18 17:06	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	12/31/18 17:06	
2-Hexanone	ug/L	10.0 U	10.0	0.66	12/31/18 17:06	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	12/31/18 17:06	
Acetone	ug/L	10.0 U	10.0	2.8	12/31/18 17:06	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	12/31/18 17:06	
Benzene	ug/L	1.0 U	1.0	0.24	12/31/18 17:06	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	12/31/18 17:06	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	12/31/18 17:06	
Bromoform	ug/L	1.0 U	1.0	0.32	12/31/18 17:06	
Bromomethane	ug/L	1.0 U	1.0	0.49	12/31/18 17:06	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	12/31/18 17:06	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	12/31/18 17:06	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	12/31/18 17:06	
Chloroethane	ug/L	1.0 U	1.0	0.55	12/31/18 17:06	
Chloroform	ug/L	1.0 U	1.0	0.30	12/31/18 17:06	
Chloromethane	ug/L	1.0 U	1.0	0.68	12/31/18 17:06	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	12/31/18 17:06	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	12/31/18 17:06	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	12/31/18 17:06	
Dibromomethane	ug/L	1.0 U	1.0	0.40	12/31/18 17:06	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	12/31/18 17:06	
Iodomethane	ug/L	50.0 U	50.0	0.67	12/31/18 17:06	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	12/31/18 17:06	
Methylene Chloride	ug/L	1.9	1.0	0.77	12/31/18 17:06	C9
Naphthalene	ug/L	2.0 U	2.0	0.82	12/31/18 17:06	
Styrene	ug/L	1.0 U	1.0	0.17	12/31/18 17:06	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	12/31/18 17:06	
Toluene	ug/L	1.0 U	1.0	0.30	12/31/18 17:06	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

METHOD BLANK: 1586589 Matrix: Water
Associated Lab Samples: 30275126001, 30275126002, 30275126003, 30275126004, 30275126005, 30275126006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	12/31/18 17:06	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	12/31/18 17:06	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	12/31/18 17:06	
Trichloroethene	ug/L	1.0 U	1.0	0.39	12/31/18 17:06	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	12/31/18 17:06	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	12/31/18 17:06	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	12/31/18 17:06	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	12/31/18 17:06	
1,2-Dichloroethane-d4 (S)	%.	102	80-120		12/31/18 17:06	
4-Bromofluorobenzene (S)	%.	97	79-129		12/31/18 17:06	
Dibromofluoromethane (S)	%.	104	80-120		12/31/18 17:06	
Toluene-d8 (S)	%.	93	80-120		12/31/18 17:06	

LABORATORY CONTROL SAMPLE: 1586590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.7	99	70-130	
1,1,1-Trichloroethane	ug/L	20	19.5	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	65-127	
1,1,2-Trichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethane	ug/L	20	20.5	102	70-130	
1,1-Dichloroethene	ug/L	20	23.3	117	70-130	
1,2,3-Trichloropropane	ug/L	20	20.6	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	17.4	87	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	97	70-130	
1,2-Dichlorobenzene	ug/L	20	20.0	100	70-130	
1,2-Dichloroethane	ug/L	20	19.9	100	70-130	
1,2-Dichloropropane	ug/L	20	21.9	110	70-130	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	23.4	117	72-170	
2-Hexanone	ug/L	20	21.9	110	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.9	104	66-150	
Acetone	ug/L	20	23.7	118	30-179	
Acrylonitrile	ug/L	20	25.0	125	48-172	
Benzene	ug/L	20	20.4	102	70-130	
Bromochloromethane	ug/L	20	20.9	104	70-130	
Bromodichloromethane	ug/L	20	18.7	94	70-130	
Bromoform	ug/L	20	17.1	85	70-130	
Bromomethane	ug/L	20	14.2	71	47-174	
Carbon disulfide	ug/L	20	17.6	88	43-133	
Carbon tetrachloride	ug/L	20	19.7	99	56-143	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	21.9	110	67-139	
Chloroform	ug/L	20	18.6	93	70-130	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

LABORATORY CONTROL SAMPLE: 1586590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	19.3	97	57-138	
cis-1,2-Dichloroethene	ug/L	20	21.1	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	70-130	
Dibromochloromethane	ug/L	20	19.2	96	70-130	
Dibromomethane	ug/L	20	18.2	91	70-130	
Ethylbenzene	ug/L	20	20.6	103	70-130	
Iodomethane	ug/L	20	7.3J	36	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	19.5	98	70-130	
Methylene Chloride	ug/L	20	23.2	116	55-144	
Naphthalene	ug/L	20	20.2	101	70-130	
Styrene	ug/L	20	19.9	99	70-130	
Tetrachloroethene	ug/L	20	20.0	100	70-130	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.7	108	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	20.1	100	27-116	
Trichloroethene	ug/L	20	21.0	105	70-130	
Trichlorofluoromethane	ug/L	20	21.5	107	60-148	
Vinyl acetate	ug/L	20	18.1	90	30-181	
Vinyl chloride	ug/L	20	21.8	109	70-130	
Xylene (Total)	ug/L	60	63.5	106	70-130	
1,2-Dichloroethane-d4 (S)	%.			93	80-120	
4-Bromofluorobenzene (S)	%.			94	79-129	
Dibromofluoromethane (S)	%.			96	80-120	
Toluene-d8 (S)	%.			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586591 1586592

Parameter	Units	30274976006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	20	20	17.7	19.0	89	95	51-124	7	30	
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.7	19.9	98	100	79-129	1	30	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	18.0	18.9	90	95	57-118	5	30	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.1	19.9	95	99	68-117	4	30	
1,1-Dichloroethane	ug/L	1.0 U	20	20	21.3	21.6	106	108	74-119	1	30	
1,1-Dichloroethene	ug/L	1.0 U	20	20	22.7	22.6	113	113	63-126	0	30	
1,2,3-Trichloropropane	ug/L	1.0 U	20	20	18.5	19.3	93	97	56-129	4	30	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	14.4	15.6	72	78	53-120	8	30	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	18.2	19.6	91	98	69-124	8	30	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	19.0	19.8	95	99	72-119	4	30	
1,2-Dichloroethane	ug/L	1.0 U	20	20	19.3	19.5	97	98	69-116	1	30	
1,2-Dichloropropane	ug/L	1.0 U	20	20	21.5	21.6	107	108	63-118	1	30	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	18.8	19.3	94	96	72-118	3	30	
2-Butanone (MEK)	ug/L	10.0 U	20	20	21.2	22.7	106	113	72-168	7	30	

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586591 1586592

Parameter	Units	30274976006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	10.0 U	20	20	20.2	21.5	101	107	66-143	6	30	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	21.1	21.6	105	108	67-145	3	30	
Acetone	ug/L	10.0 U	20	20	18.6	19.9	91	98	15-175	7	30	
Acrylonitrile	ug/L	4.0 U	20	20	21.9	23.5	110	117	36-165	7	30	
Benzene	ug/L	1.0 U	20	20	21.3	21.3	106	107	67-121	0	30	
Bromochloromethane	ug/L	1.0 U	20	20	20.9	20.6	105	103	62-128	1	30	
Bromodichloromethane	ug/L	1.0 U	20	20	18.9	18.9	94	95	66-127	0	30	
Bromoform	ug/L	1.0 U	20	20	12.6	13.7	63	68	71-127	8	30	ML
Bromomethane	ug/L	1.0 U	20	20	6.2	6.6	31	33	10-156	5	30	
Carbon disulfide	ug/L	1.0 U	20	20	15.5	16.4	78	82	45-131	6	30	
Carbon tetrachloride	ug/L	1.0 U	20	20	19.4	19.8	97	99	69-134	2	30	
Chlorobenzene	ug/L	1.0 U	20	20	19.7	20.8	98	104	69-119	6	30	
Chloroethane	ug/L	1.0 U	20	20	34.9	31.2	175	156	60-156	11	30	MH
Chloroform	ug/L	1.0 U	20	20	18.5	18.7	93	94	69-115	1	30	
Chloromethane	ug/L	1.0 U	20	20	22.4	22.4	112	112	52-145	0	30	
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	20.2	20.6	101	103	65-120	2	30	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	17.3	17.5	87	87	57-125	1	30	
Dibromochloromethane	ug/L	1.0 U	20	20	16.5	18.3	82	92	64-131	11	30	
Dibromomethane	ug/L	1.0 U	20	20	18.1	17.9	91	90	56-133	1	30	
Ethylbenzene	ug/L	1.0 U	20	20	19.5	20.7	98	104	70-127	6	30	
Iodomethane	ug/L	50.0 U	20	20	2.5J	4.0J	12	20	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	18.6	18.8	93	94	79-135	1	30	
Methylene Chloride	ug/L	1.0 U	20	20	20.2	20.5	101	102	54-133	1	30	
Naphthalene	ug/L	2.0 U	20	20	18.7	19.7	93	98	62-131	5	30	
Styrene	ug/L	1.0 U	20	20	18.9	19.9	94	99	65-121	5	30	
Tetrachloroethene	ug/L	1.0 U	20	20	19.1	20.4	95	102	77-125	7	30	
Toluene	ug/L	1.0 U	20	20	19.6	20.6	98	103	77-125	5	30	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	21.6	21.8	108	109	70-119	1	30	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	17.7	82	88	52-125	7	30	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	20	20	8.5	8.8	42	44	13-100	3	30	
Trichloroethene	ug/L	1.0 U	20	20	20.7	21.1	103	106	74-128	2	30	
Trichlorofluoromethane	ug/L	1.0 U	20	20	29.4	29.9	147	150	54-164	2	30	
Vinyl acetate	ug/L	10.0 U	20	20	15.6	16.3	78	81	15-173	4	30	
Vinyl chloride	ug/L	1.0 U	20	20	28.3	28.1	141	141	60-131	1	30	MH
Xylene (Total)	ug/L	3.0 U	60	60	59.9	63.5	100	106	69-128	6	30	
1,2-Dichloroethane-d4 (S)	%.						97	96	80-120			
4-Bromofluorobenzene (S)	%.						93	93	79-129			
Dibromofluoromethane (S)	%.						100	96	80-120			
Toluene-d8 (S)	%.						97	102	80-120			

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QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

QC Batch: 325733 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
Associated Lab Samples: 30275126007, 30275126008, 30275126009, 30275126010, 30275126011, 30275126012, 30275126013

METHOD BLANK: 1586946 Matrix: Water
Associated Lab Samples: 30275126007, 30275126008, 30275126009, 30275126010, 30275126011, 30275126012, 30275126013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.56	01/02/19 13:03	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.28	01/02/19 13:03	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.34	01/02/19 13:03	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.20	01/02/19 13:03	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.19	01/02/19 13:03	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.31	01/02/19 13:03	
1,2,3-Trichloropropane	ug/L	1.0 U	1.0	0.44	01/02/19 13:03	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.96	01/02/19 13:03	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.20	01/02/19 13:03	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.50	01/02/19 13:03	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.25	01/02/19 13:03	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.21	01/02/19 13:03	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.20	01/02/19 13:03	
2-Butanone (MEK)	ug/L	10.0 U	10.0	2.1	01/02/19 13:03	
2-Hexanone	ug/L	10.0 U	10.0	0.66	01/02/19 13:03	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.37	01/02/19 13:03	
Acetone	ug/L	10.0 U	10.0	2.8	01/02/19 13:03	
Acrylonitrile	ug/L	4.0 U	4.0	0.63	01/02/19 13:03	
Benzene	ug/L	1.0 U	1.0	0.24	01/02/19 13:03	
Bromochloromethane	ug/L	1.0 U	1.0	0.34	01/02/19 13:03	
Bromodichloromethane	ug/L	1.0 U	1.0	0.29	01/02/19 13:03	
Bromoform	ug/L	1.0 U	1.0	0.32	01/02/19 13:03	
Bromomethane	ug/L	1.0 U	1.0	0.49	01/02/19 13:03	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	01/02/19 13:03	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.34	01/02/19 13:03	
Chlorobenzene	ug/L	1.0 U	1.0	0.15	01/02/19 13:03	
Chloroethane	ug/L	1.0 U	1.0	0.55	01/02/19 13:03	
Chloroform	ug/L	1.0 U	1.0	0.30	01/02/19 13:03	
Chloromethane	ug/L	1.0 U	1.0	0.68	01/02/19 13:03	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.18	01/02/19 13:03	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.25	01/02/19 13:03	
Dibromochloromethane	ug/L	1.0 U	1.0	0.27	01/02/19 13:03	
Dibromomethane	ug/L	1.0 U	1.0	0.40	01/02/19 13:03	
Ethylbenzene	ug/L	1.0 U	1.0	0.31	01/02/19 13:03	
Iodomethane	ug/L	50.0 U	50.0	0.67	01/02/19 13:03	CL,IH
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.23	01/02/19 13:03	
Methylene Chloride	ug/L	2.1	1.0	0.77	01/02/19 13:03	C9
Naphthalene	ug/L	2.0 U	2.0	0.82	01/02/19 13:03	
Styrene	ug/L	1.0 U	1.0	0.17	01/02/19 13:03	
Tetrachloroethene	ug/L	1.0 U	1.0	0.32	01/02/19 13:03	
Toluene	ug/L	1.0 U	1.0	0.30	01/02/19 13:03	

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REPORT OF LABORATORY ANALYSIS

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

METHOD BLANK: 1586946 Matrix: Water
Associated Lab Samples: 30275126007, 30275126008, 30275126009, 30275126010, 30275126011, 30275126012, 30275126013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.22	01/02/19 13:03	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.26	01/02/19 13:03	
trans-1,4-Dichloro-2-butene	ug/L	5.0 U	5.0	0.62	01/02/19 13:03	
Trichloroethene	ug/L	1.0 U	1.0	0.39	01/02/19 13:03	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.28	01/02/19 13:03	
Vinyl acetate	ug/L	10.0 U	10.0	0.51	01/02/19 13:03	
Vinyl chloride	ug/L	1.0 U	1.0	0.31	01/02/19 13:03	
Xylene (Total)	ug/L	3.0 U	3.0	0.78	01/02/19 13:03	
1,2-Dichloroethane-d4 (S)	%.	106	80-120		01/02/19 13:03	
4-Bromofluorobenzene (S)	%.	97	79-129		01/02/19 13:03	
Dibromofluoromethane (S)	%.	105	80-120		01/02/19 13:03	
Toluene-d8 (S)	%.	96	80-120		01/02/19 13:03	

LABORATORY CONTROL SAMPLE: 1586947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.2	91	70-130	
1,1,1-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	65-127	
1,1,2-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	20	20.1	100	70-130	
1,1-Dichloroethene	ug/L	20	22.0	110	70-130	
1,2,3-Trichloropropane	ug/L	20	19.7	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	20	16.1	80	58-128	
1,2-Dibromoethane (EDB)	ug/L	20	18.5	93	70-130	
1,2-Dichlorobenzene	ug/L	20	19.5	97	70-130	
1,2-Dichloroethane	ug/L	20	18.7	93	70-130	
1,2-Dichloropropane	ug/L	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	20	18.9	94	70-130	
2-Butanone (MEK)	ug/L	20	18.3	91	72-170	
2-Hexanone	ug/L	20	18.6	93	65-151	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	66-150	
Acetone	ug/L	20	15.8	79	30-179	
Acrylonitrile	ug/L	20	18.2	91	48-172	
Benzene	ug/L	20	19.7	99	70-130	
Bromochloromethane	ug/L	20	20.3	102	70-130	
Bromodichloromethane	ug/L	20	19.3	97	70-130	
Bromoform	ug/L	20	15.2	76	70-130	
Bromomethane	ug/L	20	14.1	71	47-174	
Carbon disulfide	ug/L	20	12.5	62	43-133	
Carbon tetrachloride	ug/L	20	19.8	99	56-143	
Chlorobenzene	ug/L	20	19.1	95	70-130	
Chloroethane	ug/L	20	29.5	147	67-139	L1
Chloroform	ug/L	20	17.8	89	70-130	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

LABORATORY CONTROL SAMPLE: 1586947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloromethane	ug/L	20	23.8	119	57-138	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	70-130	
Dibromochloromethane	ug/L	20	18.2	91	70-130	
Dibromomethane	ug/L	20	17.5	87	70-130	
Ethylbenzene	ug/L	20	19.8	99	70-130	
Iodomethane	ug/L	20	5.1J	25	10-175	CL,IH
Methyl-tert-butyl ether	ug/L	20	16.5	82	70-130	
Methylene Chloride	ug/L	20	21.7	108	55-144	
Naphthalene	ug/L	20	19.1	95	70-130	
Styrene	ug/L	20	19.1	96	70-130	
Tetrachloroethene	ug/L	20	18.9	94	70-130	
Toluene	ug/L	20	18.7	94	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	102	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
trans-1,4-Dichloro-2-butene	ug/L	20	15.3	77	27-116	
Trichloroethene	ug/L	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	20	27.4	137	60-148	
Vinyl acetate	ug/L	20	18.5	93	30-181	
Vinyl chloride	ug/L	20	27.5	138	70-130	L1
Xylene (Total)	ug/L	60	59.6	99	70-130	
1,2-Dichloroethane-d4 (S)	%.			95	80-120	
4-Bromofluorobenzene (S)	%.			94	79-129	
Dibromofluoromethane (S)	%.			100	80-120	
Toluene-d8 (S)	%.			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586948 1586949

Parameter	Units	30275188001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	16.2	17.7	81	88	51-124	9	30	
1,1,1-Trichloroethane	ug/L	ND	20	20	18.0	19.0	90	95	79-129	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.5	17.4	83	87	57-118	5	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.8	18.7	89	93	68-117	5	30	
1,1-Dichloroethane	ug/L	ND	20	20	19.6	20.6	98	103	74-119	5	30	
1,1-Dichloroethene	ug/L	ND	20	20	21.5	23.2	107	116	63-126	8	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.1	18.0	91	90	56-129	1	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	13.4	14.5	67	72	53-120	8	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.3	17.6	87	88	69-124	2	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.3	18.3	86	92	72-119	6	30	
1,2-Dichloroethane	ug/L	ND	20	20	18.3	18.8	92	94	69-116	3	30	
1,2-Dichloropropane	ug/L	ND	20	20	19.8	20.8	99	104	63-118	5	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.1	18.2	85	91	72-118	6	30	
2-Butanone (MEK)	ug/L	ND	20	20	17.2	18.8	86	94	72-168	9	30	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: COA IM GW Sampling
Pace Project No.: 30275126

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586948 1586949

Parameter	Units	30275188001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2-Hexanone	ug/L	ND	20	20	16.3	16.8	82	84	66-143	3	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.1	17.8	90	89	67-145	1	30	
Acetone	ug/L	ND	20	20	26.9	23.7	98	83	15-175	12	30	
Acrylonitrile	ug/L	ND	20	20	18.2	18.6	91	93	36-165	2	30	
Benzene	ug/L	ND	20	20	18.5	19.4	93	97	67-121	5	30	
Bromochloromethane	ug/L	ND	20	20	20.1	20.3	101	102	62-128	1	30	
Bromodichloromethane	ug/L	ND	20	20	17.4	18.5	87	92	66-127	6	30	
Bromoform	ug/L	ND	20	20	12.0	12.5	60	63	71-127	4	30	ML
Bromomethane	ug/L	ND	20	20	9.9	10.6	50	53	10-156	7	30	
Carbon disulfide	ug/L	ND	20	20	12.2	11.9	61	60	45-131	2	30	
Carbon tetrachloride	ug/L	ND	20	20	17.8	19.0	89	95	69-134	6	30	
Chlorobenzene	ug/L	ND	20	20	18.4	19.4	92	97	69-119	5	30	
Chloroethane	ug/L	ND	20	20	32.0	29.8	160	149	60-156	7	30	MH
Chloroform	ug/L	ND	20	20	16.9	17.7	85	88	69-115	4	30	
Chloromethane	ug/L	ND	20	20	25.0	23.8	125	119	52-145	5	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.0	19.6	95	98	65-120	3	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.8	16.0	79	80	57-125	1	30	
Dibromochloromethane	ug/L	ND	20	20	15.6	16.7	78	84	64-131	7	30	
Dibromomethane	ug/L	ND	20	20	16.8	17.2	84	86	56-133	3	30	
Ethylbenzene	ug/L	ND	20	20	18.5	19.4	93	97	70-127	4	30	
Iodomethane	ug/L	ND	20	20	3.4J	4.9J	17	24	10-152		30	CL,IH
Methyl-tert-butyl ether	ug/L	ND	20	20	16.2	15.6	81	78	79-135	4	30	ML
Methylene Chloride	ug/L	ND	20	20	19.7	20.8	99	104	54-133	5	30	
Naphthalene	ug/L	ND	20	20	17.7	18.0	89	90	62-131	1	30	
Styrene	ug/L	ND	20	20	17.3	18.7	87	94	65-121	8	30	
Tetrachloroethene	ug/L	ND	20	20	17.6	19.0	88	95	77-125	8	30	
Toluene	ug/L	ND	20	20	17.9	18.5	89	92	77-125	3	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.9	20.8	100	104	70-119	4	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	15.2	16.0	76	80	52-125	5	30	
trans-1,4-Dichloro-2-butene	ug/L	ND	20	20	8.7	9.4	44	47	13-100	7	30	
Trichloroethene	ug/L	ND	20	20	19.1	20.0	96	100	74-128	4	30	
Trichlorofluoromethane	ug/L	ND	20	20	29.9	29.3	149	147	54-164	2	30	
Vinyl acetate	ug/L	ND	20	20	12.1	12.0	61	60	15-173	1	30	
Vinyl chloride	ug/L	ND	20	20	30.1	29.7	150	148	60-131	1	30	MH
Xylene (Total)	ug/L	ND	60	60	56.7	59.2	94	99	69-128	4	30	
1,2-Dichloroethane-d4 (S)	%.						98	97	80-120			
4-Bromofluorobenzene (S)	%.						92	92	79-129			
Dibromofluoromethane (S)	%.						96	98	80-120			
Toluene-d8 (S)	%.						96	97	80-120			

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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: COA IM GW Sampling
Pace Project No.: 30275126

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COA IM GW Sampling
Pace Project No.: 30275126

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30275126001	**Trip Blank**	EPA 8260B	325591		
30275126002	**CO72-PZM005**	EPA 8260B	325591		
30275126003	**CO71-PZM006**	EPA 8260B	325591		
30275126004	**CO70-PZM005**	EPA 8260B	325591		
30275126005	**CO69-PZM005**	EPA 8260B	325591		
30275126006	**CO68-PZM005**	EPA 8260B	325591		
30275126007	**CO67-PZM006**	EPA 8260B	325733		
30275126008	**CO66-PZM005**	EPA 8260B	325733		
30275126009	**CO65-PZM005**	EPA 8260B	325733		
30275126010	**CO64-PZM006**	EPA 8260B	325733		
30275126011	**CO63-PZM007**	EPA 8260B	325733		
30275126012	**CO62-PZM007**	EPA 8260B	325733		
30275126013	**CO61-PZM007**	EPA 8260B	325733		

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Page: 1 of 2

Section A — Required Client Information:
Company: EnviroAnalytics Group
Address: 1600 Sparrows Point Blvd, Suite B2
Sparrows Point, MD 21219
Mail To: jcalenda@enviroanalyticsgroup.com
Phone: 314-620-3056 Fax:
Requested Due Date/TAT: 5 Day

Section B — Required Project Information:
Report To: James Calenda
Copy To: Stewart Kabis
Purchase Order No.: EAG-SPT-6989
Project Name: COA IM GW Sampling
Project Number: 180227m-L-2

Section C — Invoice Information:
Attention: Laura Sargent
Company Name: EnviroAnalytics Group
Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
Pace Quote Reference:
Pace Project Manager: Samantha Bayura
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location STATE: MD

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

Requested Analysis Filtered (Y/N)

WO# : 30275126

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	Residu	Pace Project No./ Lab I.D.
1	Trip Blank	WT	G			12/20/18	—		2				2						X		001
2	C072-PZM005	WT	G				1105		3				3						X		002
3	C071-PZM006	WT	G				1115		3				3						X		003
4	C070-PZM005	WT	G				1125		3				3						X		004
5	C069-PZM005	WT	G				1150		3				3						X		005
6	C068-PZM005	WT	G				1203		3				3						X		006
7	C067-PZM006	WT	G				1220		3				3						X		007
8	C066-PZM005	WT	G				1320		3				3						X		008
9	C065-PZM005	WT	G				1348		3				3						X		009
10	C064-PZM006	WT	G				1405		3				3						X		010
11	C063-PZM007	WT	G				1427		3				3						X		011
12	C062-PZM007	WT	G				1443		3				3						X		012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
No data pkgs	Lisa Perrin	12/20/18	1600	Courier/Pace	12/20/18	1585				
	Courier/Pace	12/20/18	19:00	[illegible]	12/20/18	1900		Y		
	[illegible]	12/20/18	2345	[illegible]	12/20/18	2345	35	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Perrin
SIGNATURE of SAMPLER: Lisa Perrin
DATE Signed (MM/DD/YY): 12/20/18

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Section A — Required Client Information:
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- Address: 1600 Sparrows Point Blvd, Suite B2
- Sparrows Point, MD 21219
- Email To: jcalenda@enviroanalyticsgroup.com
- Phone: 314-620-3056 Fax:
- Requested Due Date/TAT: 5 Day

Section B — Required Project Information:
- Report To: James Calenda
- Copy To: Stewart Kabis
- Purchase Order No.: EAG-SPT-6989
- Project Name: COA IM GW Sampling
- Project Number: 180227m-1-2

Section C — Invoice Information:
- Attention: Laura Sargent
- Company Name: EnviroAnalytics Group
- Address: 1650 Des Peres Road, Suite 303 St. Louis, MO 63131
- Pace Quote Reference:
- Pace Project Manager: Samantha Bayura
- Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MD

Requested Analysis Filtered (Y/N)

Section D — Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOC + NAPH by 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	C061-PZM007	WT	G			12/20/18	1501		3				3						X		013
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

#302751

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
No data pkgs		12/20/18	1600		12/20/18	1655				
		12/20/18	1900		12/20/18	1900		X		
		12/20/18	2345		12/20/18	2345	3.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lisa Ferrie
SIGNATURE of SAMPLER: Lisa Ferrie
DATE Signed (MM/DD/YY): 12/20/18

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt

Face Analytical

Client Name: enviroanalytics Project # 30275126

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other ____

Label BMH
LIMS Login BMH

Tracking #: N/A

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Thermometer Used 9 Type of Ice: (Wet) Blue None

Cooler Temperature Observed Temp 3.6 °C Correction Factor: -0.1 °C Final Temp: 3.5 °C

Temp should be above freezing to 6°C

pH paper Lot# N/A

Date and Initials of person examining contents: BMH 12/21/18

Comments:	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:	✓			8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered			✓	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			✓	13.
Organic Samples checked for dechlorination:			✓	14.
Filtered volume received for Dissolved tests			✓	15.
All containers have been checked for preservation. All containers needing preservation are found to be in compliance with EPA recommendation. exceptions (VOA), coliform, TOC, O&G, Phenolics			✓ ✓	16. Initial when completed BMH Date/time of preservation; Lot # of added preservative
Headspace in VOA Vials (>6mm):		✓		17.
Trip Blank Present: Trip Blank Custody Seals Present	✓ ✓			18.
Rad Aqueous Samples Screened > 0.5 mrem/hr			✓	Initial when completed: BMH Date: 12/21/18

Client Notification/ Resolution:

Person Contacted: ____ Date/Time: ____ Contacted By: ____

Comments/ Resolution: ____

☐ **A check in this box indicates that additional information has been stored in ereports.**

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

APPENDIX C

System Operations/Shut-Down Summary

JANUARY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 Extreme cold temperatures ↓ •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	2 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	3 •Cell 1 **(Off)** •Cell 2 GW **(Off)** - Locked up dilution blower •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	4 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	5 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	6 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
7 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	8 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)** - Pipes burst	9 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)** - Piping removal and repair	10 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)** - Dual phase motor damaged	11 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	12 •Cell 1 **(Off)** - For the weekend •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)** - Booster blower motor replaced	13 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**
14 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	15 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	16 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)** - Piping repaired	17 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)** - Waiting for dual phase motor repair	18 •Cell 1 **(Off)** - Ice developing in piping and carbon vessels •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	19 •Cell 1 (On) •Cell 2 GW **(Off)** - Inlet pump leaking •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	20 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**
21 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	22 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	23 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	24 •Cell 1 (On) •Cell 2 GW **(Off)** - Stripper being cleaned •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) - Temporary outage, MS tank high level •Cell 5 (On)	27 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)
28 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	29 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)** - MS pump needs replaced	30 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	31 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**			
		NOTES: **Cell 1 system off from 1/1 - 1/8, 1/12 - 1/15, 1/18 (13 Days)** **Cell 2 GW system off from 1/1 - 1/8, 1/19 - 1/31 (21 Days)** **Cell 2 SVE system off from 1/1 - 1/8 (8 Days)** **Cell 3 system off from 1/1 - 1/8 (8 Days)** **Cell 5 system off from 1/1 - 1/25, 1/29 - 1/31 (28 Days)**				

FEBRUARY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 •Cell 1 (On) •Cell 2 GW **(Off)** - Stripper being cleaned •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	2 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	3 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)
4 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	5 •Cell 1 **(Off)** - No power •Cell 2 GW **(Off)** - AST transfer pump leak, replacing •Cell 2 SVE (On) •Cell 3 **(Off)** - No power •Cell 5 (On)	6 •Cell 1 **(Off)** - Reset, bad relay •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	7 •Cell 1 **(Off)** - SVE motor locked up •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	8 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	9 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	10 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)
11 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	12 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	13 •Cell 1 **(Off)** - SVE blower removed for maint. •Cell 2 GW (On) - Fitting replaced •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	14 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	15 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	16 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	17 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)
18 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	19 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	20 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)** - Waiting for LRP oil	21 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 **(Off)**	22 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	23 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	24 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)
25 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	26 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 **(Off)** - No power •Cell 5 (On)	27 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	28 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)			
		NOTES: **Cell 1 system off from 2/5 - 2/28 (24 Days)** **Cell 2 GW system off from 2/1, 2/6 - 2/12 (8 Days)** **Cell 3 system off from 2/5, 2/26 (2 Days)** **Cell 5 system off from 2/1, 2/20 - 2/21 (3 Days)**				

MARCH 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 •Cell 1 **(Off)** - No SVE motor •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	2 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	3 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
4 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	5 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	6 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	7 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	8 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**- General maintenance	9 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	10 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**
11 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	12 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	13 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	14 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	15 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	16 •Cell 1 **(Off)** •Cell 2 GW **(Off)** - Influent water test •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	17 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
18 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	19 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	20 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	21 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	22 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	23 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	24 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
25 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	26 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	27 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	28 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	29 •Cell 1 **(Off)** •Cell 2 GW (On) - Temporary outage, MS tank high level •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	30 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - Let settle over the weekend •Cell 5 (On)	31 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
		NOTES: **Cell 1 system off from 3/1 - 3/31 (31 Days)** **Cell 2 GW system off from 3/16 - 3/18 (3 Days)** **Cell 2 SVE system off from 3/1 - 3/31 (31 Days)** **Cell 3 system off from 3/30 - 3/31 (2 Days)** **Cell 5 system off from 3/8 - 3/12 (5 Days)**				

APRIL 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 •Cell 1 **(Off)** - No SVE Motor •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	2 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	3 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On) - Temporary outage for maintenance	4 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	5 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE (On) •Cell 3 (On) •Cell 5 (On)	6 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** - SVE Low vacuum alarm •Cell 3 (On) •Cell 5 (On)	7 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
8 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	9 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	10 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - No power •Cell 5 (On)	11 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	12 •Cell 1 (On) - SVE motor installed •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	13 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	14 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
15 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	16 •Cell 1 **(Off)** - No power •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - No power •Cell 5 (On)	17 •Cell 1 (On) •Cell 2 GW **(Off)** - Inlet pump leaking •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	18 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	19 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	20 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	21 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
22 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	23 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	24 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	25 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	27 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	28 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
29 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	30 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)					
		NOTES: **Cell 1 system off from 4/1 - 4/11, 4/16 (12 Days)** **Cell 2 GW system off on 4/17 (1 Day)** **Cell 2 SVE system off from 4/1 - 4/2, 4/6 - 4/30 (27 Days)** **Cell 3 system off from 4/1, 4/10 - 4/11, 4/16 (4 Days)**				

MAY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 •Cell 1 (On) - High discharge pressure alarm •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)** - Waiting for acid delivery	2 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	3 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	4 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	5 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
6 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	7 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	8 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	9 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	10 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW **(Off)** - MS tank repairs •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
13 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	14 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	15 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	16 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	17 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	18 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)** - Outlet pump removed, waiting for parts	19 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**
20 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	21 •Cell 1 **(Off)** - No power •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	22 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	23 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	24 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
27 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	28 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	29 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	30 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	31 •Cell 1 (On) - Carbon changed •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)** - Carbon change		
		NOTES: **Cell 1 system off on 5/21 (1 Day)** **Cell 2 GW system off from 5/11 - 5/31 (21 Days)** **Cell 2 SVE system off from 5/1 - 5/31 (31 Days)** **Cell 5 system off from 5/1 - 5/2, 5/18 - 5/20, 5/31 (6 Days)**				

JUNE 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	2 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**
3 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	4 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	5 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	6 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	7 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	8 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	9 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
10 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	13 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	14 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	15 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	16 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
17 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	18 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)** - Acid pump repairs	19 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	20 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	21 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	22 •Cell 1 (On) •Cell 2 GW (On) - Bag filters changed •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	23 •Cell 1 **(Off)** - Low concentrations •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**
24 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	25 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	26 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - Carbon change and low concentrations •Cell 5 **(Off)**	27 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	28 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	29 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	30 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
		NOTES: **Cell 1 system off from 6/23 - 6/30 (8 Days)** **Cell 2 GW system off from 6/1 - 6/21 (21 Days)** **Cell 2 SVE system off from 6/1 - 6/30 (30 Days)** **Cell 3 system off from 6/26 - 6/30 (5 Days)** **Cell 5 system off from 6/1 - 6/4, 6/18 - 6/30 (17 Days)**				

JULY 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 •Cell 1 **(Off)** •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	2 •Cell 1 **(Off)** - MID carbon hose ripped •Cell 2 GW **(Off)** - Maintenance and leak •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	3 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - New lines for acid pump installed	4 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	5 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	6 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	7 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
8 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	9 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	10 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	13 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	14 •Cell 1 **(Off)** - Planned outage •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - Planned outage •Cell 5 **(Off)** - Planned outage
15 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	16 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	17 •Cell 1 (On) - Temporary outage •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 (On)	18 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	19 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	20 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	21 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
22 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	23 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	24 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Temporary outage •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	27 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	28 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
29 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	30 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Mag gauge and sample port installations •Cell 5 (On) - Mag gauge installation	31 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)				
		NOTES: **Cell 1 system off from 7/1 - 7/9, 7/14 - 7/15 (11 Days)** **Cell 2 GW system off from 7/2 - 7/31 (30 Days)** **Cell 2 SVE system off from 7/1 - 7/31 (31 Days)** **Cell 3 system off from 7/1, 7/14 - 7/15 (3 Days)** **Cell 5 system off from 7/1 - 7/2, 7/14 - 7/15 (4 Days)**				

AUGUST 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	2 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Temporary shutdown for acid spill	3 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Inlet transfer pump installed	4 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)** - Filter housing installation
5 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	6 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	7 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 **(Off)**	8 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - replaced filter vessel	9 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	10 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
12 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	13 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Filled acid	14 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	15 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - AST transfer pump switched to Goulds	16 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - MS pump replaced with Goulds	17 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On) - Defoamer refilled	18 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
19 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	20 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	21 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) - Sample ports installed for PID readings •Cell 5 (On)	22 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	23 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	24 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	27 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	28 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	29 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	30 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	31 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	
		NOTES: **Cell 2 GW system off from 8/1 - 8/31 (31 Days)** **Cell 2 SVE system off from 8/1 - 8/31 (31 Days)** **Cell 5 system off from 8/4 - 8/7 (4 Days)**				

SEPTEMBER 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)
2 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	3 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	4 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	5 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	6 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 (On) •Cell 5 (On)	7 •Cell 1 **(Off)** - Low concentrations •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - Low concentrations •Cell 5 (On)	8 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
9 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	10 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	11 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	12 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	13 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Tempoarary shut down to recharge wells	14 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	15 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
16 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	17 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	18 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	19 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	20 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	21 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Filters and cartridges changed, oil filled	22 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
23 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	24 •Cell 1 (On) - Hose line leak fixed •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - troubleshooting after low concentrations on 9/7 •Cell 5 (On)	25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	27 •Cell 1 **(Off)** - No power •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	28 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	29 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
30 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)		NOTES: **Cell 1 system off from 9/7 - 9/23, 9/27 (18 Days)** **Cell 2 GW system off from 9/1 - 9/30 (30 Days)** **Cell 2 SVE system off from 9/1 - 9/30 (30 Days)** **Cell 3 system off from 9/7 - 9/30 (24 Days)**				

OCTOBER 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** - Attempt to restart system, discover VFD is broken, needs replaced •Cell 5 (On)	2 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	3 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	4 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	5 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	6 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
7 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	8 •Cell 1 **(Off)** - Low concentrations •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Replaced acid injection pump	9 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	10 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	11 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	12 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	13 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
14 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	15 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	16 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	17 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	18 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	19 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	20 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
21 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	22 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	23 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	24 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Replace filters, add acid and anitfoam agent	27 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
28 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	29 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	30 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	31 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)			
		NOTES: **Cell 1 system off from 10/8 - 10/23 (16 Days)** **Cell 2 GW system off from 10/1 - 10/31 (31 Days)** **Cell 2 SVE system off from 10/1 - 10/31 (31 Days)** **Cell 3 system off from 10/1 - 10/31 (31 Days)**				

NOVEMBER 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	2 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Change filters, adjust antifoaming agent flow	3 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
4 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	5 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	6 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	7 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	8 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Change duel phase fluid	9 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Install PPE drum and waste oil drum	10 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
11 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	13 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	14 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	15 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	16 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	17 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
18 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	19 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	20 •Cell 1 (On) - Repair vapor line •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On) - Fill acid and antifoam drums	21 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	22 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	23 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	24 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
25 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	26 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	27 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	28 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	29 •Cell 1 (On) - Temporary outage •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	30 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	
		NOTES: **Cell 2 GW system off from 11/1 - 11/30 (30 Days)** **Cell 2 SVE system off from 11/1 - 11/30 (30 Days)** **Cell 3 system off from 11/1 - 11/30 (30 Days)**				

DECEMBER 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
2 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	3 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	4 •Cell 1 (On) - Temporary outage •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	5 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	6 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	7 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	8 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
9 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	10 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	11 •Cell 1 (On) •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	12 •Cell 1 (On) •Cell 2 GW (On) - Oxidizer installed •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	13 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	14 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	15 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)
16 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	17 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	18 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	19 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 (On)	20 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)** - For sampling and holiday	21 •Cell 1 (On) •Cell 2 GW (On) •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	22 •Cell 1 **(Off)** - For holiday •Cell 2 GW **(Off)** - For holiday •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
23 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	24 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	25 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	26 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	27 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	28 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	29 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**
30 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	31 •Cell 1 **(Off)** •Cell 2 GW **(Off)** •Cell 2 SVE **(Off)** •Cell 3 **(Off)** •Cell 5 **(Off)**	**NOTES:** **Cell 1 system off from 12/22 - 12/31 (10 Days)** **Cell 2 GW system off from 12/1 - 12/11, 12/22 - 12/31 (21 Days)** **Cell 2 SVE system off from 12/1 - 12/31 (31 Days)** **Cell 3 system off from 12/1 - 12/31 (31 Days)** **Cell 5 system off from 12/20 - 12/31 (12 Days)**				

APPENDIX D

Historical Data Summary

Coke Oven Historical Data - Cell 1 Groundwater Analytical Results

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO02-PZM006			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	5 U	5 U	25 U	25 U	25 U	25 U	25 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	3.2 J	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	10.4 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	5 J	50 U	50 U	50 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	3.4 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	4.8 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	3.3 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	1.1 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	33.8	50 U	48.9	50 U	25 U	25 U	25 U	25 U	25 U	40.7 J	50 U	44.2 J	38 J	49.3 J	74.5	18.3 J	37.3 J	37.3 J	39.6 J
Anthracene	NS	NS	NS	NS	1.7 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	0.2 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	152,000	53,400	187,000	170,000	168,000	159,000	267,000	236,000	205,000	145,000	312,000	339,000	191,000	15,700	241,000	104,000	63,100	46,800	155,000
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	0.26 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	0.26 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.24 J2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.8 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	2.4 J	5 U	5 U	1.1 J	5 U	5 U	5 U	5 U	1.4 J	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.6 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	368	72	622	394	374	471	731	470	451 IS	367	267	367	225	271	335	261	202	134	283
Fluoranthene	NS	NS	NS	NS	2.9 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	5 2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Indeno[1,2,3-c,d]pyrene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Isophorone	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Isopropylbenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	11.9 L2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methyl tert-butyl ether (MTBE)	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Methylene Chloride	8.5	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	4.5 JB	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	413	5,780	968	599	373	562	664	476	392 IS	511	273	360	210	276	370	314	164	119	187
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	1.5 J2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	9.6 2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	36.3 2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	1.7 2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	0.27 J2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	30	13.8	32.7	22.8	11.7	14.2	31.5	6.6	8.5 IS	6.7	6.4	7.2	5.5	5.8	9.2	5.8	3.1 J	1.8 J	4.1 J
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	884	3,850	7,150	1,540	156	951	15,400	2,690	2,500	1,070	243	122	136	43.5	104	32	33.3	13.7	77.7
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	1,220	1,360	3,380	1,840	753	1,180	4,310	1,630	1,590 ES	1,220	480	738	345	403	643	376	139	60.2	139

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO02-PZM041*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,1-Trichloroethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2,2-Tetrachloroethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichloroethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*NS*	*NS*	*NS*	*8 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromoethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloroethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloropropane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	1.9 4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*NS*	*NS*	*NS*	*20 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*NS*	*NS*	*NS*	*NS*	*20 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	0.32 J4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	0.28 J4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*NS*	*NS*	*NS*	*NS*	*20 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	25.2 4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*NS*	*NS*	*NS*	*NS*	*100 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Anthracene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Benz[a]anthracene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benzene	NS	NS	NS	NS	36.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromomethane	NS	NS	NS	NS	8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	NS	NS	NS	8 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloromethane	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	NS	NS	NS	3.7 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	NS	NS	NS	NS	0.45 J4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	0.7 J4c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	NS	NS	NS	4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	NS	NS	NS	NS	36.3 L1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Naphthalene	NS	NS	NS	NS	376	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nitrobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Phenanthrene	*NS*	*NS*	*NS*	*NS*	4.4 4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	0.69 J4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.26 J4c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Tetrachloroethene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Toluene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,2-Dichloroethene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,3-Dichloropropene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichloroethene	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichlorofluoromethane	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Vinyl chloride	*NS*	*NS*	*NS*	*NS*	*4 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Xylenes	*NS*	*NS*	*NS*	*NS*	9.9	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO18-PZM006*			*ug/L*															
1,1,1,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*5 U*	*25 U*	*5 U*	*25 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	25.9 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	10.9 J	*50 U*	12.6 J	*50 U*	*50 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	1.8 J	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	1.1 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	1.9 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	0.69 J1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	0.26 J1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	62.9	*50 U*	186	74.5	72.8	*25 U*	28.6 JL1	37.9 JL1	*25 U*	45.5 J	*50 U*	40.7 J	78.4	136	92.3	64.5	47.4 J	74.5	65.6

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	0.63 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	0.96 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	146,000	196,000	82,600	38,300	13,200	61,000	73,600	265,000	227,000	198,000	227,000	669,000	365,000	454,000	293,000	251,000	328,000	281,000	149,000
Benzo[a]pyrene	NS	NS	NS	NS	0.7 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1.7 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	0.24 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	0.64 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	2.8 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5.1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	8.1	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	11.5 L1BC9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1.3 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	40.6	53	62.4	10.6	4.7 J	14.4	17.2	49	57	44.4	38.7	98.8	51.1	86.8	43.2	51.4	69.2	43.1	49.4
Fluoranthene	NS	NS	NS	NS	5.1 1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	0.88 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	0.26 J1c2c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	8	5.5	7.2 B	*5 U*	6.1 B	*5 U*	*5 U*	*5 U*	*5 U*	4.7 JB	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	181	615	385	78.4	33.8	81.8	279	145	132	142	140	262	117	211	159	182	172	121	135
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	3.7 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	8.6 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	4.1 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	1.6 1c2c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*5 U*	*5 U*	20.3	*5 U*	4.9 J	*5 U*	*5 U*	1.7 J	*5 U*	2.1 J	2.2 J	*5 U*	1.8 J	3.1 J	3.2 J	4.4 J	2.1 J	2.5 J	1.6 J
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	1,990	1,140	1,080	560	237	377	730	3,330	3,700	5,950	5,060	36,500	20,400	28,500	1,940	1,170	6,710	1,430	6,070
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	1,870	2,170	1,960	592	380	202	279	796	1,130	859	680	2,520	1,310	2,260	1,010	1,100	1,610	903	1,420

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO93-PZM*			*ug/L*															
1,1,1,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*5 U*	*25 U*	*5 U*	*25 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	31.2 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	27.9 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	20.5 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	4.1 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	1.9 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	39.9	*50 U*	111	*50 U*	*25 U*	*25 U*	29.9 JL1	*25 U*	*25 U*	55.4	*50 U*	*50 U*	42 J	62.9	58.5	19.9 J	16.7 J	21.8 J	35.1 J

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	3.7 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	95,800	1,190	218,000	236,000	302,000	269,000	318,000	276,000	507,000	209,000	335,000	180,000	230,000	230,000	215,000	117,000	122,000	201,000	172,000
Benzo[a]pyrene	NS	NS	NS	NS	1.8 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	3.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	0.26 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1.4 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	26.8	5 U	5 U	5 U	3.5 J	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	14	9.5	12.3	10.1	21.3	12.8	38.2 IS	24.8	23.6	18.1	15.1 L2	19.7	16.4	5 U	9.8	17.4	14.6
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	7.3	5 U	5 U	16.2	16.4	5 U	17.7	16.6	17.9 IS	15.2	5 U	5 U	10	12	12	7.3	10.5	12.2	10.1
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	12.4 L1BC9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	1,690	5 U	2,670	2,690	2,970	2,650	4,020 J	2,130	1,860	1,510	1,550	1,430	894	1,130	1,400	812	934	1,120	975
Fluoranthene	NS	NS	NS	NS	7.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	9.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	0.31 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	35.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	9.1	*5 U*	7 B	*5 U*	6.3 B	*5 U*	*5 U*	*5 U*	*5 U*	6.2 B	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	1,570	27.8	1,990	5,740	1,880	7,950	54,800	5,890	11,900	2,080 J	5,660	1,970	1,480	3,750	10,000	1,540	1,790	1,930	1,930
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	2.8 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	16.5 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	93.3 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	4.4 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	19.5 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	863	*5 U*	1,090	1,930	1,550	2,140	4,350 J	1,800	1,840	1,430	1,530	1,600	945	1,200	1,430	735	952	1,180	1,010
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	20,900	43.4	50,200	49,100	51,800	47,800	78,200	59,000	62,700	58,400	102,000	55,400	50,700	61,500	61,300	27,100	32,900	63,900	60,700
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	1.7 J	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	22,000	18.3	33,500	34,600	37,000	34,600	51,000	25,400	25,000	17,300	32,200	17,800	10,600	15,300	19,500	7,240	9,080	17,100	16,200

U: Non-Detect, *NS: Not Sampled*

Coke Oven Historical Data - Cell 2 Groundwater Analytical Results

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO27-PZM012			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	1 U	1 U	5 U	1 U	5 U	25 U	25 U	5 U	1 U	1 U	25 U	25 U	25 U	25 U	25 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	5 U	5 U	10 U	5 U	25 U	50 U	50 U	10 U	5 U	5 U	3.5 J	50 U	50 U	50 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	5 U	5 U	10 U	5 U	25 U	50 U	50 U	10 U	5 U	5 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	12.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	4.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	5 U	5 U	10 U	5 U	25 U	50 U	50 U	10 U	5 U	5 U	50 U	50 U	50 U	50 U	50 U
4-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	0.6 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	0.84 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	48.4	50 U	25 U	50 U	5 U	5.1 J	7.4 J	5 U	25 U	28.3 J	50 U	10 U	17.8	44.3	45.5 J	16.9 J	58.1	20.3 J	42.9 J
Anthracene	NS	NS	NS	NS	0.21 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	15,500	26,300	22,600	8,280	8,340	12,300	15,200	18,300	19,400	17,400	21,300	16,100	13,400	9,540	10,900	10,500	3,180	6,490	4,670
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.2 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbazole	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	0.35 J	0.85 J	2.2	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	1 U	1 U	0.34 J	1 U	5 U	5 U	5 U	1 U	1 U	0.25 J	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	10.5 L1BC9	5 U	1 U	1 U	1 U	1 U	5 U	1.3 J	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	110	171	278	73.2	95.8	130	178	169	177	181	175	171	117	130	120	114	20.7	59.8	37.7
Fluoranthene	NS	NS	NS	NS	0.23 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	7.9	5.8	5.1 B	5 U	1 U	1 U	1 U	1 U	5 U	4.5 JB	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	731	1,440	1,650	596	937	1,720	4,030	3,080	756	1,230	1,330	5,670	1,910	1,280	863	913	176	482	293
Nitrobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitrosodiphenylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NS	NS	NS	NS	0.98 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	NS	NS	NS	NS	3.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	NS	NS	NS	NS	0.26 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	134	248	348	47.4	110	167	231	199	215	212	216	213	135	134	136	120	16.3	54.7	32.8
Tetrachloroethene	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Toluene	4,660	8,240	8,580	1,920	2,720	3,810	5,160	6,500	7,000	6,330	7,170	5,390	4,210	3,040	3,900	3,390	410	1,130	744
trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Xylenes	1,050	1,800	2,470	661	793	1,070	1,580	1,790	1,610	1,540	1,550	1,500	1,010	1,060	1,060	1,040	160	511	327

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO27-PZM046			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	0.99 J	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	NS	25 U	5 U	5 U	25 U	25 U	25 U	5 U	5 U	25 U	25 U	25 U	25 U	25 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	22.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	NS	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	9 J	50 U	50 U	50 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	NS	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	64.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	37.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	NS	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
4-Nitroaniline	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	10.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Acenaphthylene	NS	NS	NS	NS	47.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	75.4	50 U	25 U	NS	55.4	25 U	25 U	59.7	50 U	50 U	55.9	60	69.1	23.3 J	20.5 J	36.5 J	61.2
Anthracene	NS	NS	NS	NS	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	308,000	412,000	436,000	403,000	413,000	NS	374,000	448,000	436,000	98,000	218,000 H1	55,600	240,000	212,000	117,000	215,000	214,000	346,000	297,000
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.28 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbazole	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	1.7 J	NS	7.3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.7 J	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	NS	3.7 J	5 U	3.5 J	1.9 J	2.1 J	5 U	2.2 J	1.9 J	1.3 J	5 U	2.4 J	5 U	2.5 J
Chloroethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	11.1 L1BC9	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	863	1,150	1,170	853	773	NS	1,240	1,120	979	464	633	35.4	474	505	375	611	703	932	789
Fluoranthene	NS	NS	NS	NS	0.39 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	11.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	6.4	6.2	5.7 B	5 U	6.3 B	NS	5 U	5 U	5 U	6 B	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	731	1,160	7,110	20,800	3,230	NS	12,500	8,750	13,700	3,600	3,320	1,170	5,200	19,700	6,970	7,240	15,800	1,680	1,360
Nitrobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitrosodiphenylamine	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	NS	NS	NS	NS	1.4 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NS	NS	NS	NS	8.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	NS	NS	NS	NS	59.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	NS	NS	NS	NS	24.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	200	266	403	216	347	NS	357	258	238	157	104	7.8	72.8	88.4	44.7	126	123	204	160
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	55,800	83,700	68,000	56,800	63,500	NS	72,700	88,100	70,000	17,400	36,200	6,920	34,800	30,300	16,900	33,700	33,200	70,700	59,400
trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	1.9 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Xylenes	14,500	16,900	14,900	13,400	12,100	NS	18,600	20,000	18,200	4,350	8,680	617	9,100	7,850	4,330	7,290	8,260	23,900	16,300

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO36-PZM008			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	1 U	5 U	25 U	5 U	5 U	25 U	25 U	25 U	5 U	5 U	25 U	25 U	25 U	25 U	25 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	8.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	5 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	5 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	6.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	5 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	0.85 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	3.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	25 U	50 U	5 U	25 U	21.2 J	25 U	25 U	34.7 J	50 U	50 U	25 U	57.9	61.1	18.6 J	25.3 JB	50 U	29.5 J
Anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	0.22 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	27,100	38,800	26,100	30,200	27,300	23,700	33,100	16,000	22,300	18,100	11,900	21,300	13,100	16,400	9,510	3,830	23,400	6,550	8,050
Benzo[a]pyrene	NS	NS	NS	NS	0.32 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	0.45 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	3.5 JB	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	0.5 J	1.6 J	8.2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	0.23 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	67.7	107	97.7	72.1	88.4	75.3	131	31.5	59.9	59.4	16.9	54.3	58.3	59.8	21.4	7.4	88.6	31	27.2
Fluoranthene	NS	NS	NS	NS	0.56 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5.8	5.8	5 U	5 U	0.97 J	5 U	5 U	5 U	5 U	6.3 B	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	679	935	772	584	223	411	1,020	363	382	441	355	723	440	435	283	113	752	239	311

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	1.3 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	0.89 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	9.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.4 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	0.82 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	11	21.2	25.3	14.2	22.1	21.4	33	9.4	19.1	15.7	6	15.4	16.1	16.9	5.7	1.9 J	25.8	7.2	7.6
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	5,790	8,500	5,980	5,960	5,610	4,930	7,410	3,410	4,880	3,830	1,790	4,610	3,270	3,490	1,540	628	5,590	1,360	1,610
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	1,260	1,970	1,780	1,460	1,630	1,340	2,160	917	1,210	990	682	1,370	1,150	1,040	631	392	1,610	520	642

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO36-PZM043*			*ug/L*															
1,1,1,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*5 U*	*25 U*	*5 U*	*25 U*	*5 U*	*5 U*	*25 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*5 U*	*5 U*	708	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	799 IS	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	3.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	9.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	4.9	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	2.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	4.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	17.4 J	*25 U*	*25 U*	29 J	*50 U*	*50 U*	*25 U*	93.7	45.9 J	*50 U*	60 B	22.7 J	25.1 J
Anthracene	*NS*	*NS*	*NS*	*NS*	1.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	0.35 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	14,800	31,300	29,000	41,500	26,500	36,300	21,800	42,200	25,400	23,600	37,300	15,400	17,100	31,500	30,400	27,900	17,200	29,800	31,200
Benzo[a]pyrene	NS	NS	NS	NS	0.27 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	0.56 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	0.56 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.51 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	6.8	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	0.33 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	23	60.3	91.9	104	71.5	78	64.9	116	71.6	54.7	38.4	101	31.9	43.4	42.9	45.5	22.8	45.6	45.8
Fluoranthene	NS	NS	NS	NS	2.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	3.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	6	7.1	5	5 U	6 B	5 U	5 U	5 U	5 U	5.3 B	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	574	940	904	996	690	655	642	995	562	583	766	7,980	538	742	812	655	414	836	766

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	7.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	5.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	1.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	9.5	16.6	11.7	20.6	12.8	20.7	14	33	18.6	13.8	8.6	95.6	7.6	9.1	7.5	9.9	5.2	10.6	10.1
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	2,060	4,560	5,050	7,950	4,410	5,730	2,980	8,070	4,020	3,610	4,040	1,690	2,270	3,430	3,400	3,400	1,810	3,490	3,740
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	381	1,090	1,470	1,770	1,120	1,240	860	1,900	1,040	847	626	836	553	704	675	740	380	739	735

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO37-PZM003*		*ug/L*																
1,1,1,2-Tetrachloroethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,1-Trichloroethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2,2-Tetrachloroethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichloroethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethene	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*5 U*	*25 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromoethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichlorobenzene	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloroethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloropropane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dioxane	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*25 U*	*50 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*25 U*	*50 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*25 U*	*50 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	183	183	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Benzene	22,500	22,100	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromodichloromethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromoform	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Bromomethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Carbon disulfide	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Carbon tetrachloride	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chlorobenzene	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloroethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloroform	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Chloromethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
cis-1,2-Dichloroethene	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
cis-1,3-Dichloropropene	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Dibromochloromethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Dichlorodifluoromethane	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Ethylbenzene	413	375	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methyl tert-butyl ether (MTBE)	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methylene Chloride	5.9	5.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Naphthalene	1,470	1,730	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	381	415	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Tetrachloroethene	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Toluene	14,200	15,900	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,2-Dichloroethene	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Trichloroethene	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichlorofluoromethane	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Vinyl chloride	*5 U*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Xylenes	4,080	3,750	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO37-PZM038		ug/L																
1,1,1,2-Tetrachloroethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	NS	25 U	5 U	5 U	25 U	5 U	5 U	25 U	25 U	25 U	5 U	1 U	5 U	5 U	5 U	25 U	25 U
1,2-Dibromoethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,2-Dichlorobenzene	5 U	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	NS	5 U	5 U	2.5 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	6.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	NS	50 U	25 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	5 U	10 U	10 U	10 U	50 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	NS	50 U	25 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	5 U	10 U	10 U	10 U	50 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	58.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	10.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	NS	50 U	25 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	5 U	10 U	10 U	10 U	50 U	50 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	1.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	6.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	NS	50 U	25 U	25 U	50 U	25 U	25 U	25.2 J	50 U	32 J	41.9 J	28.4	3.2 J	5.8 J	7.7 JB	50 U	43.9 J
Anthracene	NS	NS	NS	NS	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	12,800	22,500 H1	NS	32,800	35,900	37,500	34,900	26,100	22,900	16,700	15,500	69,400	27	7,830	9,170	9,350	10,800	12,100	12,300
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.26 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Bromoform	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Bromomethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	NS	5 U	3.7 J	5 U	5 U	5 U	5 U	2.3 J	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1.6 J	5 U
Carbon tetrachloride	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Chlorobenzene	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.44 J	0.52 J	0.47 J	1 U	5 U	5 U
Chloroethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Chloroform	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Chloromethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.28 J	1 U	1 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	176	303 H1	NS	346	423	442	399	372	322	286	236	244	5 U	238	270	263	263	248	243
Fluoranthene	NS	NS	NS	NS	0.55 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	0.2 J	1 U	1 U	5 U	5 U
Methylene Chloride	6.1	5 U	NS	5 U	6.4 B	5 U	5 U	5 U	5 U	5 B	5 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U
Naphthalene	1,310	2,000 H1	NS	5,300	1,780	7,070	1,870	1,900	14,000	1,730	1,700	1,280	14.1	1,550	1,370	1,260	1,620	1,330	1,370

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	1.7 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	5.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	17.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.48 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	3.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	341	533 H1	*NS*	585	616	813	696	601	540	442	381	12.2	*5 U*	315	338	368	385	374	377
Tetrachloroethene	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*
Toluene	6,140	11,000 H1	*NS*	15,000	15,800	16,600	15,400	12,800	11,900	9,200	8,820	6,180	5.9	5,960	6,980	6,570	6,980	7,280	7,550
trans-1,2-Dichloroethene	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	0.53 J	*1 U*	*1 U*	*5 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*
Xylenes	1,540	2,570	*NS*	2,880	3,340	3,280	*NS*	3,080	2,620	2,280	1,940	2,230	*5 U*	1,720	2,080	1,880	1,920	2,020	2,040

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO38-PZM006			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	1 U	5 U	1 U	5 U	25 U	5 U	5 U	1 U	1 U	25 U	25 U	25 U	25 U	25 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	5 U	10 U	5 U	25 U	50 U	10 U	10 U	5 U	5 U	2.6 J	50 U	50 U	50 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	5 U	10 U	5 U	25 U	50 U	10 U	10 U	5 U	5 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	8.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	3.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	5 U	10 U	5 U	25 U	50 U	10 U	10 U	5 U	5 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	0.61 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	0.58 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	25 U	50 U	25 U	5 U	10 U	5 U	25 U	35.4 J	10 U	10 U	12.2	35.5	54.7	50 U	22.4 JB	50 U	16.5 J
Anthracene	NS	NS	NS	NS	0.43 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	13,000	14,100	10,400	16,500	13,100	14,400	12,300	10,400	9,350	8,080	8,650	10,700	7,130	6,090	5,690	5,250	5,520	4,690	5,060
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	1.4	2.5	1 U	5 U	5 U	1.2	1 U	1 U	1 U	5 U	5 U	5 U	1.7 J	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	1 U	1 U	0.31 J	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	10.4 L1BC9	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	96.6	97.1	118	123	127	150	148	134	104	67.4	107	269	76	94.9	72.2	66.8	60.1	50.8	60.7
Fluoranthene	NS	NS	NS	NS	0.76 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	6	5 U	5 U	5 U	5 U	1 U	1 U	1 U	5 U	4.3 JB	1 U	1 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	626	748	611	819	800	1,660	2,900	2,890	780	615	1,150	6,620	1,730	2,070	1,190	1,350	1,320	1,170	1,370

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	2.9	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	3.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.5 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	71.5	56.4	57.1	126	97.9	90.4	78	96.3	49.4	27.2	83.6	340	48.8	51.9	42.5	41	43.7	35.9	45.5
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	1,910	1,270	1,360	3,610	1,890	2,200	2,040	2,260	1,970	543	2,050	7,210	1,330	1,350	970	1,260	1,060	920	1,040
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	704	668	606	961	838	922	821	941	722	354	776	2,120	557	698	549	559	478	443	496

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO38-PZM043			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	0.27 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	0.29 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	25 U	10 U	6.4 J	5 U	10 U	5 U	5 U	10 U	10 U	10 U	6.9 J	55.4	3.1 J	3.4 J	3.2 JB	3.3 J	3.1 J
Anthracene	NS	NS	NS	NS	0.59 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	95.8	342	46.4	10.3	7.4	11.8	5.7	4.6	9	5.1	4.5	1.4	7,280	7.2	1.2	1 U	3.8	4	0.45 J
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.24 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	1 U	1 U	1 U	0.58 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.32 J	1 U
Carbon tetrachloride	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5 U	5 U	5 U	1 U	0.61 J	0.63 J	1 U	1 U	1 U	0.41 J	0.43 J	1 U	1 U	1 U	0.37 J	1 U	1 U	0.27 J	1 U
Chloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	5 U	5 U	11.4 L1BC9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	5 U	5 U	8.4	8.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	219	1 U	0.23 J	1 U	1 U	1 U	1 U
Fluoranthene	NS	NS	NS	NS	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	1 U	0.25 J	1 U	1 U	1 U	1 U	0.24 J	1 U	1 U	1 U	1 U	0.35 J	1 U	1 U	1 U	1 U
Methylene Chloride	5.7	6.6	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	11.6	72.5	10 U	4	0.64 J	6.3	3.2	2 U	2 U	2 U	2 U	2 U	1,260	3.2	1.1 J	2 U	2 U	5.8	2 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.58 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	280	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	14.1	46.8	*5 U*	2.2	1.3	2.7	1.3	*1 U*	*1 U*	0.2 J	*1 U*	*1 U*	4,810	0.71 J	*1 U*	*1 U*	0.39 J	1	*1 U*
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	*5 U*	*15 U*	*5 U*	*3 U*	*1 U*	1.9 J	0.85 J	*1 U*	*1 U*	*3 U*	*3 U*	*3 U*	1,370	*1 U*	1.2 J	*3 U*	*3 U*	1.6 J	*3 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO39-PZM007			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	1 U	25 U	25 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	1.7 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	50 U	50 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	50 U	50 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	10.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	0.24 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	50 U	50 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	0.39 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	0.39 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	56.4	57.8	10 U	8.1 J	5 U	10 U	5 U	5 U	39.2 J	50 U	10 U	7.4 J	27.9	10 U	4.2 J	3.8 JB	3 J	10 U
Anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	699	15,100	14,600	424	336	26,800	9,350	396	8,760	13,900	11,400	386	1,490	972	1,970	370	355	664	381
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5 U	5 U	5 U	1 U	1 U	2.2	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	1 U	1 U	1.3	2.8	1 U	1 U	5 U	5 U	1 U	1 U	1 U	0.57 J	1 U	1 U	1 U	1 U
Carbon tetrachloride	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5 U	5 U	5 U	1 U	1 U	1 U	0.15 J	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	5 U	5 U	11.2 L1BC9	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	5 U	52.3	63.7	2.7	2.3	141	87.2	3.3	41.2	90.3	71.1	2.8	7.1	8.4	13.8	2.1	2.2	4.1	2.2
Fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	6.1	7.9	6 B	1 U	1 U	1 U	1 U	1 U	1 U	5 JB	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	324	1,760	1,440	378	489	3,770	20,700	538	1,570	1,890	1,450	676	841	918	643	356	880	1,180	902

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	0.84 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	0.33 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*5 U*	55.2	65.4	1.2	1.2	205	61.1	1.5	51.4	77	40.3	1.5	6.9	7.7	12.4	*1 U*	*1 U*	3	*1 U*
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	136	3,100	3,290	38.6	24.5	6,780	1,710	40.4	1,980	3,500	1,790	37.2	296	213	393	33.5	21.1	79	24.8
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	28.5	495	565	18.4	13.5	1,140	460	18.5	357	599	376	15.9	60.1	56.1	98.3	11.8	12.4	23.6	12

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO39-PZM042			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	5 U	25 U	5 U	5 U	25 U	25 U	25 U	5 U	5 U	25 U	25 U	25 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	42.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	3.9 J	50 U	50 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	49.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	53.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	25 U	50 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	1.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	5.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	25 U	50 U	25 U	25 U	21.6 J	25 U	25 U	26.5 J	50 U	50 U	32.5 J	57.9	42.5 J	50 U	25.9 JB	3.2 J	3.4 J
Anthracene	NS	NS	NS	NS	0.87 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	33,200	39,500	32,700	41,700	52,600	49,300	38,000	35,900	29,300	29,900	28,300	5,720	14,300	20,900	14,500	1,890	1,090	6,040	3,720
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.32 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	10.7	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5.2	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.1	1 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	1 J	5 U	5 U	0.83 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chloroform	5 U	5 U	11.4 L1BC9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	349	355	409	340	466	133	428	369	276	298	227	63.3	111	223	140	14.7	7.6	70.7	37.7
Fluoranthene	NS	NS	NS	NS	0.59 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	5.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	1.6 J	5 U	1.2 J	5 U	2.6 J	1 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Methylene Chloride	5.6	6	5 U	5 U	5.7 B	5 U	5 U	5 U	5 U	4.9 JB	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	1 U
Naphthalene	1,810	1,750	2,000	1,840	1,920	675	8,540	4,880	7,680	1,870	1,640	1,050	1,320	1,540	1,470	947	1,040	1,840	1,970

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	4.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	95.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.27 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	13.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	549	606	536	552	701	207	710	544	464	442	338	97.9	170	338	203	19	10	98.9	55.3
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*
Toluene	13,500	15,400	13,000	15,700	18,200	16,700	13,800	15,400	12,600	11,700	10,700	2,220	4,480	8,150	5,720	568	272	2,240	1,320
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*
Xylenes	2,870	2,990	3,260	2,820	3,580	1,060	3,140	3,000	2,430	2,380	1,840	554	911	1,740	1,180	129	69.8	580	323

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO40-PZM008			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	5 U	25 U	5 U	5 U	25 U	5 U	25 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	2.6 J	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	1.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	25 U	50 U	25 U	25 U	50 U	10 U	50 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	25 U	50 U	25 U	25 U	50 U	10 U	50 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	117 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	2.4 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	25 U	50 U	25 U	25 U	50 U	10 U	50 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	2.6 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	6.7 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	95.8	50 U	25 U	50 U	25 U	25 U	50 U	25 U	25 U	29.4 J	10 U	64	5 U	42.6	10 U	10 U	7.4 J	3.1 J	4.3 J
Anthracene	NS	NS	NS	NS	0.55 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	20,500	24,600	8,500	8,910	6,590	4,960	7,900	4,120	292	1,250	29	302	21.6	551	58.2	61.1	464	5,690	1,340
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.24 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	0.71 J	1 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	5 U	5 U	11.1 L1BC9	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	0.96 J	1 U	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	198	198	112	87.7	73.1	74	78.9	84.6	4.4 J	15	0.75 J	4.4 J	0.31 J	7.6	0.68 J	1 U	1.6	105	17.3
Fluoranthene	NS	NS	NS	NS	1.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	4.9 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	8.5	5.6	5.6 B	5 U	3.2 J	5 U	5 U	5 U	5 U	4.6 JB	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	38,300	1,990	12,400	13,600	8,380	17,900	13,800	9,670	376	1,130	89.2	287	8	354	32.6	27	160	2,190	1,720

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	4 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	2.1 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.76 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	1 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	229	275	136	128	105	107	109	34.7	*5 U*	18.2	*1 U*	4.1 J	*1 U*	5.5	*1 U*	*1 U*	1	70.2	19.7
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	7,350	7,690	2,470	2,930	1,910	1,600	1,960	2,750	123	382	16.1	89.2	1.2	82.9	5.2	3.7	29.8	1,670	344
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	1,470	1,570	1,030	901	849	851	*NS*	984	69.5	150	23	48.4	3.5	47.4	9.4	3.4	16.8	614	153

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO41-PZM001			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	5 U	5 U	5 U	25 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	3.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	9.9 J	50 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	0.73 J	50 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	8.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	5.5 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	10 U	50 U	10 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	0.92 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	0.91 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	37.8	50 U	93.7	50 U	25 U	25 U	25 U	25 U	25 U	39 J	50 U	22.7 J	25 U	91.8	7.6 J	50 U	5 JB	10 U	5.9 J

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	0.44 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	74,500	92,200	111,000	98,600	76,200	74,900	1,160	15,500	5,170	13,500	12,200	20,500	1,220	1,960	17,800	200	5.2	338	252
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	2.2 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.95 J	5 U	1 U	1 U	1 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Chloroform	5 U	5 U	11.6 L1BC9	5 U	5 U	5 U	5 U	5 U	5 U	1.1 J	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	1,570	1,270	1,380	1,010	990	1,020	129	312	66.9	112	130	314	23.2	59.5	392	4.8 J	1 U	20.5	22.2
Fluoranthene	NS	NS	NS	NS	0.48 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	2.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	7	5.6	7.2 B	*5 U*	3.1 J	*5 U*	*5 U*	*5 U*	*5 U*	4.4 JB	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*
Naphthalene	996	1,250	919	677	707	645	120	194	66.6	98.7	186	280	18.9	45.7	271	16	7.3	12	9.4
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	2.3 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	13.4 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.28 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*5 U*	113	144	95.5	*5 U*	70.8	7.9	12.6	3.3 J	1.8 J	2.9 J	10.8	1.1 J	1.2 J	3.8	*5 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*
Toluene	56,300	50,300	64,900	45,700	42,600	43,000	1,640	10,000	3,170	6,570	5,060	12,700	801	1,490	11,900	66	0.62 J	327	285
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*
Xylenes	26,400	20,200	35,700	16,400	16,300	15,500	1,660	3,570	864	1,060	1,220	3,420	238	569	4,010	44.5	*3 U*	203	177

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO41-PZM036			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	25 U	25 U	25 U	5 U	5 U	25 U	25 U	25 U	25 U	25 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	8.8 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	4.2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	16.6 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	25 U	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	50 U	50 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	0.55 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	1.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	58.9	50 U	25 U	25 U	25 U	25 U	25 U	40 J	50 U	45.8 J	25 U	66.6	37.1 J	50 U	50 U	50 U	51.1

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	0.48 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	481,000	474,000	437,000	428,000	616,000	482,000	557,000	567,000	291,000	187,000	207,000	102,000	47,100	113,000	139,000	121,000	108,000	189,000	245,000
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	0.19 JIS1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.54 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	3.9 J	5 U	5 U	5 U	5 U	4.2 J	3.7 J	3.3 J	5 U	5 U	5 U	5 U	5 U	2.8 J	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5.3	5 U	5.2	5 U	3.3 J	2.9 J	5 U	1.8 J	1.7 J	2 J	5 U	5 U	5 U	2.1 J
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	0.25 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	1,120	1,240	1,200	1,210	1,260	1,380	1,320	1,280	1,200	845	887	858	605	592	621	659	548	658	580
Fluoranthene	NS	NS	NS	NS	0.55 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1.5 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	17.3 L2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	9.1	7.1	*5 U*	*5 U*	6.6 B	*5 U*	*5 U*	*5 U*	*5 U*	6 B	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	274	373	345	339	282	330	327	328	190 IS	235	256	322	239	234	306	325	303	385	327
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	1.6 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	27.9 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.39 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	0.68 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	395	480	489	328	416	562	397	529	474 IS	389	418	420	263	264	287	314	275	362	319
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	131,000	135,000	123,000	141,000	138,000	137,000	175,000	167,000	116,000	77,300	80,800	57,900	21,600	31,700	42,500	40,500	37,000	55,700	66,700
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	4 J
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	27,600	24,800	27,400	27,700	30,000	29,600	40,700	29,200	26,000	19,000	21,800	25,600	9,420	10,200	12,600	11,500	10,300	16,900	13,300

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO42-PZM004			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	2 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	10 U	3.3 J	10 U	5 U	5 U	1 J	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	6.5 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	4.3 1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	0.24 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	0.88 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	26.5	78.7	74.6	10 U	5 U	5 U	6.8 J	5 U	5 U	5.8 J	6 J	10 U	25	48.6	10 U	29	7.5 JB	7.2 J	23.6
Anthracene	NS	NS	NS	NS	0.34 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	873	6,800 H5	5,030	1,390	650	681	526	390	661	1,130	1,100	1 U	738	1,220	215	72.5	51.5	294	5.8
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.21 J	1 U	1 U	1 U	1 U
Bromomethane	5 U	5 U	5 U	1 U	10	1 U	1 U	1 U	1 U	1 U	5.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	1 U	0.62 J	1 U	1 U	1 U	1 U	0.61 J	0.76 J	1 U	1 U	1 U	1 U	1 U	1 U	0.87 J	1 U
Carbon tetrachloride	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	0.15 J	0.14 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	5 U	5 U	11.5 L1BC9	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.4	1 U	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	0.21 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	107	307	412	218	103	57.6	149	137	176	164	171	1 U	50.3	52.4	23.2	7.6	6.8	56.2	5.1
Fluoranthene	NS	NS	NS	NS	0.26 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	0.88 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	6.1	7.9	7 B	1 U	1 B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Naphthalene	475	1,190	1,560	860	94.8 1c	235	847	633	3,650	755	763	6.1	188	155	93.8	22.1	25	210	5.9

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	1.5 1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	0.2 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.35 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	89.9	387	524	201	100	64.3	154	115	89.9	156	154	*1 U*	47.6	49.6	21.6	12.4	4.8	53	4.2
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	1,140	7,500 H5	8,060	3,020	1,310	984	1,300	1,130	1,700	2,230	2,200	*1 U*	1,010	1,930	398	205	107	615	10
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	1,150	2,870	3,580	2,160	908	534	1,370	1,330	1,930	1,630	1,730	*3 U*	562	464	356	219	72.3	409	39.5

U: Non-Detect, *NS: Not Sampled*

Coke Oven Historical Data - Cell 3 Groundwater Analytical Results

2018

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO101-PZM			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,1,1-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,1,2-Trichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,1-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,1-Dichloroethene	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	5 U	1 U	1 U	5 U	1 U	1 U	25 U	25 U	5 U	5 U	5 U	NS	NS	NS	25 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,2-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,2-Dichloroethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,2-Dichloropropane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	3.9 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	10 U	5 U	5 U	25 U	5 U	5 U	50 U	50 U	10 U	25 U	994	NS	NS	NS	50 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	10 U	5 U	5 U	25 U	5 U	5 U	50 U	50 U	10 U	25 U	109	NS	NS	NS	50 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	13.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	10 U	5 U	5 U	25 U	5 U	5 U	50 U	50 U	10 U	25 U	25 U	NS	NS	NS	50 U	10 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	3.2 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	10.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	48.2	50 U	25 U	10 U	5 U	5 U	25 U	5 U	5 U	27 J	50 U	22.4 B	48.7 J	6,200	NS	NS	NS	50 U	10 U
Anthracene	NS	NS	NS	NS	2.4 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	0.33 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	13,600	18,000	17,700	2,240	15,600	22,400	27,900	26,800	23,800	21,200	17,700	17,400	10,400	5,690	NS	NS	NS	28.7	10.8
Benzo[a]pyrene	NS	NS	NS	NS	0.25 JISH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	0.45 JISH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.3 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Bromoform	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Bromomethane	5 U	5 U	5 U	1 U	1 U	2.2	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	1 U	1 U	0.5 J	5 U	1 U	1 U	5 U	3.9 J	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Carbon tetrachloride	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Chlorobenzene	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Chloroethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Chloroform	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	2.7 J	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Chloromethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Chrysene	NS	NS	NS	NS	0.35 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	5 U	1 U	5 U	5 U	NS	NS	NS	5 U	1 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	17	17.1	20.5	18.6	22	24.2	32.4	32.5	31.8 IS	20.4	15.4	21.3	4 J	5	NS	NS	NS	5 U	1 U
Fluoranthene	NS	NS	NS	NS	3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	11.3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Indeno[1,2,3-c,d]pyrene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Isophorone	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Isopropylbenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methyl tert-butyl ether (MTBE)	*5 U*	*NS*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
Methylene Chloride	9.5	*5 U*	*5 U*	*1 U*	1 B	*1 U*	*5 U*	*1 U*	*1 U*	4.2 JB	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
Naphthalene	603	1,010	798	4,680	421 H21c	1,760	781	2,100	4,040	642	753	2,150	107	167	*NS*	*NS*	*NS*	6.2 J	*2 U*
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	14.6 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	4.1 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	1.9 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	0.26 JH21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	6.7	6.8	6.8	6.3	8.1	9.1	12.7	10.4	10.2 IS	6.2	5.9	6.6	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
Toluene	945	1,100	1,130	*500 U*	1,310	1,460	1,730	1,900	1,630	1,100	925	1,220	235	316	*NS*	*NS*	*NS*	*5 U*	0.55 J
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	2.9 J	*1 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*NS*	*NS*	*NS*	*5 U*	*1 U*
Xylenes	216	228	261	233	270	281	353	388	368 ES	237	174	249	41.5	63.7	*NS*	*NS*	*NS*	*15 U*	*3 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO102-PZM			ug/L															
1,1,1,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	10 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	5 U	25 U	5 U	25 U	5 U	5 U	5 U	NS	5 U	25 U	25 U	25 U	5 U	5 U	25 U	25 U	25 U	5 U	25 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,2-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	5 U	NS	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
1,4-Dioxane	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	4.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	NS	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	10 U	50 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	25 U	50 U	25 U	50 U	25 U	25 U	25 U	NS	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	10 U	50 U
2-Methylnaphthalene	NS	NS	NS	NS	31.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	8.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	25 U	50 U	25 U	50 U	25 U	25 U	25 U	NS	25 U	50 U	50 U	50 U	25 U	25 U	50 U	50 U	50 U	10 U	50 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	5.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	19.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	25 U	50 U	25 U	50 U	25 U	25 U	25 U	NS	25 U	22.7 J	50 U	67.7 B	25 U	89.4	50 U	50 U	18.6 J	10 U	18.6 J

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	4.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	0.22 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	16,100	22,200	25,200	17,200	23,400	19,600	31,800	NS	23,000	19,200	29,800	15,700	11,900	25,200	22,300	16,900	12,300	1 U	15,300
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.21 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	6.2	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	6.4	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Chrysene	NS	NS	NS	NS	0.22 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	3.3 J	5 U	5 U	1 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	19	20.1	29.1	22.5	25.4	18.1	37.1	NS	33.7	24.6	28.4	19.6	20.8	25.8	24	24.9	19.7	1 U	20.4
Fluoranthene	NS	NS	NS	NS	4.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	22.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	6.6	*5 U*	*5 U*	*5 U*	6 B	*5 U*	*5 U*	*NS*	*5 U*	4.4 JB	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	6.5 B
Naphthalene	916	1,330	1,230	1,370	872	891	1,180	*NS*	9,900	1,090	1,080	875	874	1,070	970	987	980	*2 U*	917
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	32	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	5.5	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	2.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	0.24 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	7.7	7.5	10.6	5.7	8.9	9.3	16.1	*NS*	11.1	7.7	8.6	6.1	6.3	8.1	8.3	7.3	6.4	*1 U*	6.6
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*
Toluene	1,040	1,280	1,510	1,100	1,190	1,110	2,610	*NS*	851	1,220	1,650	1,150	1,220	1,400	1,470	1,230	884	*1 U*	859
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*
Xylenes	231	254	340	253	285	209	396	*NS*	372	278	301	238	240	287	292	293	228	*3 U*	249

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO103-PZM*			*ug/L*															
1,1,1,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*5 U*	*25 U*	*5 U*	*25 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*25 U*	*25 U*	*25 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	10.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*NS*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	4.7 J	*50 U*	*50 U*	*50 U*	*50 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*NS*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	71.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	17.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*NS*	*25 U*	*50 U*	*50 U*	*50 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	3.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	30	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	75.7	*50 U*	26.7	*50 U*	*25 U*	39.2 J	*25 U*	*NS*	*25 U*	40.1 J	24.5 J	76.1 B	50.6 L2	97.4	24.4 J	25.2 J	18.3 J	16.5 J	43.3 J

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	3.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	0.3 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	14,000	237,000	48,900	47,300	50,900	54,800	52,000	NS	37,900	24,200	26,500	27,700	10,800	15,800	19,700	13,000	57.5	837	786
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.28 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	3.4 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	0.26 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	3.8 J	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	29	531	100	80	94.2	88.8	102	NS	78	59.2	53.8	55.5	41.7	31.3	48.7	30.4	5 U	2.3 J	5 U
Fluoranthene	NS	NS	NS	NS	4.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	8.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	9.8	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	4.1 JB	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	1,290	987	36,700	11,000	5,880	10,000	10,500	*NS*	18,300	3,350	24,900	12,300	7,210	1,970	3,510	1,760	14.6	82.3	112
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	15.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	13.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	2.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	1.5	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*5 U*	71	18.9	14.6	16.3	12.5	18.2	*NS*	16.2	10.9	10.6	10.4	8.1	3.1 J	10.1	4.6 J	*5 U*	*5 U*	*5 U*
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	1,110	22,000	3,930	3,710	3,920	3,680	3,620	*NS*	3,190	1,910	2,470	1,980	1,680	1,110	1,890	1,100	8.1	59.3	41.6
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	6.8	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	477	4,660	1,630	1,340	1,490	1,430	1,570	*NS*	1,330	926	887	960	769	520	813	499	*15 U*	27.8	28.2

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO104-PZM			ug/L															
1,1,1,2-Tetrachloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	1 U	5 U	1 U	5 U	1 U	1 U	1 U	NS	1 U	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	1 U	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	100 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	5 U	10 U	5 U	10 U	5 U	5 U	5 U	NS	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	5 U	10 U	5 U	10 U	5 U	5 U	5 U	NS	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	5 U	10 U	5 U	10 U	5 U	5 U	5 U	NS	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	5 U	10 U	5 U	10 U	5 U	5 U	5 U	NS	5 U	2.7 J	10 U	10 U	29.8 L2M0R1	114	10 U	10 U	3.4 J	13.1	10 U

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	4,610	35.8	93.7	55.1	31.1	23.1	64.2	NS	13.7	0.66 J	8.5	16.5	1 U	5.5	4.1	1 U	1 U	59.5	3.6
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	1 U	1 U	1 U	1 U	3.8	2.9	1 U	NS	1 U	1.1 B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	1 U	1 U	1 U	1 U	1 U	0.45 J	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	1 U	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	16.4	3.6	1 U	1 U	0.45 J	0.4 J	0.59 J	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	NS	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	20.9	101	52.5	42.9	4.2 1c	4.7	23	*NS*	5.3	*2 U*	1.8 J	5.5	*2 U*	2.2	1.1 J	*2 U*	*2 U*	13.5	*2 U*
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	0.38 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.42 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	5.2	2.6	*1 U*	*1 U*	0.2 J	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	1,800	96.5	12.4	6.3	7	2.9	12.4	*NS*	1.4	*1 U*	0.45 J	1.1	*1 U*	*1 U*	0.27 J	*1 U*	*1 U*	5.3	*1 U*
trans-1,2-Dichloroethene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	254	68	10.7	3.3	6	3.4	8.5	*NS*	*1 U*	*3 U*	*3 U*	*3 U*	*1 U*	*1 U*	*3 U*	*3 U*	*3 U*	4.3	*3 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO30-PZM015*			*ug/L*															
1,1,1,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*5 U*	*25 U*	*5 U*	*25 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*NS*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*5 U*	*NS*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	15 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*25 U*	*50 U*	*25 U*	*50 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*NS*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*25 U*	*50 U*	*25 U*	*50 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*NS*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	36.3 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	21.6 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*25 U*	*50 U*	*25 U*	*50 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*NS*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	4.7 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	27.3 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	26.3	*50 U*	86.2	*50 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	26.5 J	*50 U*	46.2 JB	*NS*	159	*50 U*	22.3 J	19.3 J	*50 U*	*50 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	1.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	75,300	83,400	73,700	79,500	67,900	62,600	82,800	89,800	71,600	66,200	77,400	52,800	NS	88,400	67,500	50,800	72,700	25,500	70,300
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	0.28 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	7.8	5 U	5 U	5 U	5 U	5 U	26.8	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	5 U	5 U	5 U	5 U	0.46 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	11 L1BC9	5 U	1 U	5 U	5 U	5 U	5 U	9.3	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	5 U	NS	5 U	5 U	1 U	3.6 J	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	6	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	101	94.4	117	96.8	107	85.4	115	124	101 IS	100	88.9	71.3	NS	118	102	84.5	95.4	39.9	111
Fluoranthene	NS	NS	NS	NS	1.7 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	10.2 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	5 U	NS	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	5.9	*5 U*	7 B	*5 U*	1 B	3 J	*5 U*	*5 U*	*5 U*	4.3 JB	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	31,100	2,130	12,600	7,050	3,320	1,690	12,100	7,400	19,500	2,720	2,310	1,830	*NS*	3,560	3,440	1,720	1,980	1,020	4,660
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	8.7 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	10.8 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	0.98 JH21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	2 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*5 U*	23.8	25.7	24.4	25.2	18.9	23.6	24.7	19.3 IS	18.1	17.2	10.9	*NS*	18.3	15.5	12.3	15.3	5.4	16
Tetrachloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	5,560	5,260	6,440	5,650	4,930	4,220	5,820	5,950	4,850	4,470	5,010	3,620	*NS*	5,860	4,720	3,190	5,020	1,410	5,460
trans-1,2-Dichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	2 J	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	4.7 J	*5 U*
Trichlorofluoromethane	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	1,510	1,530	1,710	1,420	1,630	1,260	1,620	1,780	1,440 ES	1,360	1,270	1,060	*NS*	1,620	1,440	1,210	1,290	572	1,500

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO30-PZM060*			*ug/L*															
1,1,1,2-Tetrachloroethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*1 U*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*NS*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*100 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	0.69 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*5 U*	*10 U*	*5 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*NS*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*5 U*	*10 U*	*5 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*NS*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	0.2 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*5 U*	*10 U*	*5 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*NS*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*5 U*	*10 U*	*5 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	3.4 J	*10 U*	*10 U*	*NS*	58.8	*10 U*	3.6 J	4.5 JR1	*10 U*	3.1 J

U: Non-Detect, *NS: Not Sampled*

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	1,050	21	11.8	10.8	15.3	1.5	2.4	28.4	40.7	20	7.2	1 U	NS	5.2	8.1	19.2	16.9	80.4	22.2
Benzo[a]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	0.38 J	1 U
Carbon tetrachloride	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	1 U	1 U	2.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1.3	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	3.3	3.1	1 U	1 U	0.31 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene	NS	NS	NS	NS	0.23 J1c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	3/1/2016	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	12	72.4	2.5	5.3	2.9	*2 U*	3.5	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	*NS*	2 J	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	0.22 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	0.27 J1c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	2	3.6	*1 U*	*1 U*	0.17 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	234	70.8	3.7	1.7	3.7	*1 U*	0.61 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	1.2	*1 U*	*1 U*	*1 U*	1.8	*1 U*
trans-1,2-Dichloroethene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.23 J	0.25 J	*1 U*	*1 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	50.2	55.7	1.8	*3 U*	3.3	*1 U*	*1 U*	*1 U*	*1 U*	*3 U*	*3 U*	*3 U*	*NS*	*1 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*

U: Non-Detect, *NS: Not Sampled*

Coke Oven Historical Data - Cell 5 Groundwater Analytical Results

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO23-PZM008			ug/L															
1,1,1,2-Tetrachloroethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,1,1-Trichloroethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,1,2,2-Tetrachloroethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,1,2-Trichloroethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,1-Dichloroethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,1-Dichloroethene	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NS	5 U	25 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	25 U	25 U	25 U	25 U	500 U
1,2-Dibromoethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,2-Dichlorobenzene	NS	5 U	NS	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,2-Dichloroethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,2-Dichloropropane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	NS	5 U	NS	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
1,4-Dioxane	NS	NS	500 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	NS	41.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NS	25 U	50 U	25 U	NS	25 U	25 U	5 U	25 U	NS	NS	NS	NS	25 U	50 U	50 U	50 U	50 U	1000 U
2-Chloronaphthalene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NS	25 U	50 U	25 U	NS	25 U	25 U	5 U	25 U	NS	NS	NS	NS	25 U	50 U	50 U	50 U	50 U	1000 U
2-Methylnaphthalene	NS	NS	NS	NS	NS	27.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	NS	43.2 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	NS	25 U	50 U	25 U	NS	25 U	25 U	5 U	25 U	NS	NS	NS	NS	25 U	50 U	50 U	50 U	50 U	1000 U

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
4-Nitrophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	NS	2.4 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	NS	11 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	NS	108	50 U	25 U	NS	25 U	25 U	5 U	25 U	NS	NS	NS	NS	67.7	19.3 J	14.5 J	37.2 JB	17.7 J	1000 U
Anthracene	NS	NS	NS	NS	NS	1.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	NS	0.32 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	1,380	991	947	NS	531	428	727	636	NS	NS	NS	NS	564	657	600	403	163	264
Benzo[a]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	NS	0.3 JISH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	1.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Bromoform	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Bromomethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Butylbenzylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Carbon tetrachloride	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Chlorobenzene	NS	5 U	5 U	5 U	NS	5 U	5 U	1.1	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Chloroethane	NS	5 U	5 U	9.2	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Chloroform	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Chloromethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Chrysene	NS	NS	NS	NS	NS	0.33 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	5 U	NS	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	2.2 J	100 U
cis-1,3-Dichloropropene	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	38.7	42.1	52.3	NS	22.2	17.3	54.4	31.6	NS	NS	NS	NS	23.2	34.2	25	16.8	10	100 U
Fluoranthene	NS	NS	NS	NS	NS	2.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	NS	7.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	5 U	NS	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Methylene Chloride	NS	11.8	5 U	6	NS	6.6 B	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	160 B
Naphthalene	NS	39,500	3,110	3,590	NS	886 H21c	1,210	2,960	9,640	NS	NS	NS	NS	4,260	4,300	3,780	2,630	3,870	5,800
Nitrobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	NS	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	NS	NS	NS	NS	NS	9.3 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	NS	NS	NS	NS	NS	41.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	NS	NS	NS	NS	NS	1.4 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	NS	NS	NS	NS	NS	8.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	NS	37.8	46.6	51.5	NS	10.7	9.1	51.8	21.1	NS	NS	NS	NS	19.8	30.2	22.1	8.4	5.7	100 U
Tetrachloroethene	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Toluene	NS	501	603	604	NS	276	217	424	413	NS	NS	NS	NS	217	374	310	26.8	20.3	56.8 J
trans-1,2-Dichloroethene	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
trans-1,3-Dichloropropene	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Trichloroethene	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	3.6 J	100 U
Trichlorofluoromethane	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Vinyl chloride	NS	5 U	5 U	5 U	NS	5 U	5 U	1 U	5 U	NS	NS	NS	NS	5 U	5 U	5 U	5 U	5 U	100 U
Xylenes	NS	624	809	840	NS	383	300	855	474	NS	NS	NS	NS	373	543	392	265	152	150 J

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO24-PZM007*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*NS*	*100 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	0.53 JH21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*25 U*	*10 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	3.5 J	*10 U*	*10 U*	*10 U*	*10 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*NS*	*25 U*	*10 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	86.8 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*NS*	*25 U*	*10 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	*NS*	17.9 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	*NS*	58.5 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*NS*	28.8	*10 U*	*25 U*	*10 U*	*5 U*	9 J	*5 U*	*5 U*	10.2	5.2 J	35.6	22.7 L2	47.8	23.2	4.8 J	14.4 B	9 J	41.4

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	NS	8.9 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	NS	2.5 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	452	25.6	5.3	4.9	4.8	5.7	6.2	5.3	7.5	5.2	5	3.7	5.1	4.4	1 U	2.6	2.9	1.8 C8
Benzo[a]pyrene	NS	NS	NS	NS	NS	2 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	NS	3.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	0.5 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	NS	3.8 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	0.68 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NS	5 U	1 U	5 U	1 U	1 U	2.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.3	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.27 J	1 U	1 U	0.35 J	1 U
Chloroethane	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.4	1 U	1 U	0.84 J	1 U	1 U	1 U	1.1
Chrysene	NS	NS	NS	NS	NS	2.1 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.78 J	1 U
cis-1,3-Dichloropropene	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	5 U	4.1	7.4	7	7.2	8	6.6	5.5	8.6	4.2	4.5	2.8	7.4	4.1	1.6	6.8	8.6	8.8
Fluoranthene	NS	NS	NS	NS	NS	18 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	NS	27.6 H21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	NS	0.58 JH21c	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*NS*	7.4	*1 U*	5.3	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	1.7	*1 U*	*1 U*
Naphthalene	*NS*	1,490	3,390	3,030	3,090	2,810	2,830	3,380	3,950	3,300	5,870	5,900 L1	2,130	4,160	2,360	383	2,090	3,860	4,220
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*NS*	86.9 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*NS*	10.3 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*NS*	22.7 H21c	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	*5 U*	2.8	*5 U*	*1 U*	1.3	1.5	1.2	*1 U*	1.3	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	*NS*	8.2	45.8	*5 U*	4.4	4.2	4.8	4.6	4.1	5.5	2.9	3.4	2.4	3.5	3.7	1.3	2.9	2.5	2.1 C8
trans-1,2-Dichloroethene	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.49 J	*1 U*	*1 U*	1.5	*1 U*
Trichlorofluoromethane	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*NS*	*5 U*	*1 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	*NS*	11.1	30.6	16.7	16.6	17	18	15.1	12.2	18.1	9.8	10.9	6.7	13	8.5	3	9.3	11.5	10.9

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO26-PZM007			ug/L															
1,1,1,2-Tetrachloroethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	11.4 U	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	1 U	1 U	5 U	1 U	5 U	50 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	11.4 U	1 U	NS	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	11.4 U	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	11.4 U	1 U	NS	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	NS	100 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	28.4 U	NS	NS	NS	NS	0.28 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	11.4 U	NS	NS	NS	NS	0.23 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	49.3	NS	NS	NS	NS	41.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	28.4 U	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	5 U	5 U	10 U	5 U	10 U	125 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	0.87 J	10 U	10 U	10 U	10 U
2-Chloronaphthalene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	5 U	5 U	10 U	5 U	10 U	125 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	130	NS	NS	NS	NS	80.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	73.3	NS	NS	NS	NS	31.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitroaniline	28.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	28.4 U	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloroaniline	11.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	5 U	5 U	10 U	5 U	10 U	125 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	28.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Nitrophenol	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Acenaphthene	11.4 U	NS	NS	NS	NS	3.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	92.1	NS	NS	NS	NS	62.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	5 U	5 U	10 U	5 U	10 U	625 U	5 U	5 U	5 U	3.1 J	10 U	10 U	5 U	38.7	5.3 J	8.8 J	10 U	2.9 J	5.7 J
Anthracene	11.4 U	NS	NS	NS	NS	3.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	449	197	2,120	1 U	1 U	406	231	129	365	288	324	410	1 U	351	366	218	281	205	276
Benzo[a]pyrene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	50 U	2.7	1 U	3.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbazole	133	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	1 U	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	0.3 J	0.18 J	0.21 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	1 U	1 U	NS	1 U	1 U	25 U	0.43 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	18.5	1 U	15.1	1 U	1 U	14.2 J	8.9	5.2	16	10.6	10.1	14.7	1 U	11.3	13.1	7.7	8.6	10.9	12.4
Fluoranthene	11.4 U	NS	NS	NS	NS	2.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	24.6	NS	NS	NS	NS	19	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	11.4 U	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Indeno[1,2,3-c,d]pyrene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	1 U	NS	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	1 U	1 U	1 U	1 U	1 U	89.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.6	1 U	1 U
Naphthalene	2,920	46.6	59	6.4	3.8	4,020	1,900	937	2,140	1,940	3,770	6,130 L1	2 U	2,390	3,310	1,410	2,020	3,580	3,720
Nitrobenzene	11.4 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine	11.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
N-Nitrosodiphenylamine	11.4 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pentachlorophenol	28.4 U	NS	NS	NS	NS	1.9 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenanthrene	31.2	NS	NS	NS	NS	28.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Phenol	45.6	NS	NS	NS	NS	19.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyrene	11.4 U	NS	NS	NS	NS	1.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Pyridine	NS	NS	NS	NS	NS	38.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Styrene	123	2.8	8	1 U	1 U	72.1	45.5	25.5	83.7	56.5	56.9	97.8	1 U	69.5	77.5	42.5	56.2	57.5	63.6
Tetrachloroethene	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	291	19.9	1,050	1 U	1 U	262	136	73.7	206	163	157	236	1 U	202	201	106	153	130	142
trans-1,2-Dichloroethene	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	409	8	248	1 U	3 U	312	195	110	344	221	220	337	1 U	242	281	170	205	236	259

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO26-PZM032*			*ug/L*															
1,1,1,2-Tetrachloroethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,1-Trichloroethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2,2-Tetrachloroethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1,2-Trichloroethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,1-Dichloroethene	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*1 U*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromoethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichlorobenzene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloroethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dichloropropane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,3-Dichlorobenzene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*2.7 U*	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*2.7 U*	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*5 U*	*NS*	*NS*	*NS*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chloronaphthalene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*5 U*	*NS*	*NS*	*NS*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylnaphthalene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitroaniline	*2.7 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*2.7 U*	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloroaniline	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*5 U*	*NS*	*NS*	*NS*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Nitroaniline	*2.7 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Nitrophenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Acetone	5 U	NS	NS	NS	NS	25 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Anthracene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[a]pyrene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	1.1 U	NS	NS	NS	NS	0.21 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromoform	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromomethane	1 U	NS	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Butylbenzylphthalate	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbazole	1.1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	1 U	NS	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon tetrachloride	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroethane	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloroform	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chloromethane	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chrysene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibenz[a,h]anthracene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluoranthene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	1.1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*1 U*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Naphthalene	5	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Nitrobenzene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
N-Nitroso-di-n-propylamine	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
N-Nitrosodiphenylamine	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*2.7 U*	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*1.1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Tetrachloroethene	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Toluene	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,2-Dichloroethene	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
trans-1,3-Dichloropropene	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichloroethene	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Trichlorofluoromethane	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Vinyl chloride	*1 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Xylenes	*1 U*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO55-PZM000*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*5 U*	*25 U*	*5 U*	*5 U*	*NS*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*NS*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	81.5	1.8 J	*10 U*	*10 U*	*10 U*	*10 U*
2-Hexanone	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*NS*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	25.6	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
4-Methyl-2-pentanone (MIBK)	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*NS*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
Acetone	*NS*	54.5	69.4	39.5	*10 U*	*NS*	5.9 J	9.4 J	36.1	4 J	11.8	50 MHR1	*5 U*	372	6 J	8.9 J	6.3 JB	6.9 J	31.6
Benzene	*NS*	1,230	835	316	18.1	*NS*	38.5	15.6	8.2	15.8	7.9	*1 U*	9.4	11.8	47.5	*1 U*	*1 U*	38	*1 U*
Bromodichloromethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Bromoform	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Bromomethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	1.7	2.5	*1 U*	0.6 JB	6.1	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Carbon disulfide	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Carbon tetrachloride	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Chlorobenzene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.32 J	*1 U*	*1 U*	*1 U*	*1 U*
Chloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Chloroform	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Chloromethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	1 J	*1 U*	*1 U*	2.2	1.6	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	1.1
cis-1,2-Dichloroethene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	1.9	*1 U*	*1 U*	*1 U*	*1 U*
cis-1,3-Dichloropropene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Dibromochloromethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Dichlorodifluoromethane	*NS*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Ethylbenzene	*NS*	11.1	8.8	*5 U*	*1 U*	*NS*	1.6	0.47 J	*1 U*	0.53 J	0.29 J	*1 U*	0.23 J	0.53 J	3	*1 U*	*1 U*	1.7	*1 U*
Hexachlorobutadiene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Isopropylbenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Methyl tert-butyl ether (MTBE)	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Methylene Chloride	*NS*	7.6	6.8	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	*NS*	569	778	268	77.7	*NS*	176	31.9	92.2	56	71	*2 U*	76.7	91.7	331	2 J	*2 U*	141	*2 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Styrene	*NS*	7.1	7.3	*5 U*	*1 U*	*NS*	1.2	*1 U*	*1 U*	0.74 J	*1 U*	*1 U*	*1 U*	*1 U*	2.3	*1 U*	*1 U*	0.88 J	*1 U*
Tetrachloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	*NS*	194	395	95.5	10.1	*NS*	16.3	5.8	4.3	6.9	2.7	0.33 JML	5.9	6	32	1.2	*1 U*	8.6	*1 U*
trans-1,2-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	*NS*	141	161	46.9	7.4	*NS*	26.4	8.1	6	9.1	3.2	*3 U*	5.8	8.6	54.7	3.3	*3 U*	23.7	*3 U*

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO56-PZP001*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,1-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1,2-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,1-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*5 U*	*25 U*	*5 U*	*25 U*	*5 U*	*5 U*	*5 U*	*5 U*	*25 U*	*25 U*	*25 U*	*1 U*	*5 U*	*25 U*	*25 U*	*25 U*	*25 U*	*25 U*
1,2-Dibromoethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dichloropropane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,4-Dioxane	*NS*	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	38.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*5 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*NS*	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*5 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	43.9	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	28.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*NS*	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	*50 U*	*50 U*	*50 U*	*5 U*	*25 U*	*50 U*	*50 U*	*50 U*	*50 U*	*50 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	*NS*	4.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	*NS*	35	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*NS*	104	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*25 U*	*25 U*	25.8 J	*50 U*	50.2	7.6 JL2	109	16.2 J	18.9 J	29.2 JB	18 J	65

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	NS	2.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	478	870	515	549	639	359	484	380	391	503	437	345	385	438	346	319	192	203
Benzo[a]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	0.24 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Butylbenzylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0.6 J	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1.5 J	5 U	5 U	0.5 J	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Chrysene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	1.4 J	5 U
cis-1,3-Dichloropropene	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	17.3	18.8	19.4	20.4	21.4	21.1	20.1	15.1	13.4	14.6	14	9.2	14.3	13.8	9.6	12.8	8.5	8.8
Fluoranthene	NS	NS	NS	NS	NS	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	NS	14.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	NS	1 U	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	5 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	5 U	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*NS*	11	6.2	6.2	*5 U*	6.5 B	*5 U*	*5 U*	*5 U*	3.9 JB	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Naphthalene	*NS*	30,300	2,500	5,330	8,140	993	7,310	8,870	10,800	2,580	32,300	17,900 L1	4,670	3,440	4,130	1,760	2,800	1,870	3,290
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*NS*	15.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	*NS*	16.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*NS*	1.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*NS*	22.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	47.4	57.6	74.2	81.8	79.7	62.6	75.2	62	61.1	80.4	78.5	36.2	63	85.3	43.2	46	34.6	43.3
Tetrachloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Toluene	*NS*	198	404	211	345	360	143	208	176	87.3	136	186	149	103	140	169	177	18.3	45.7
trans-1,2-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
trans-1,3-Dichloropropene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Trichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	2.3 J	*5 U*
Trichlorofluoromethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Vinyl chloride	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
Xylenes	*NS*	328	390	399	401	432	317	405	281	256	295	313	196	282	289	219	266	190	182

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	CO57-PZP002			ug/L															
1,1,1,2-Tetrachloroethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	NS	2 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-chloropropane	NS	1 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	NS	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	NS	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	NS	NS	100 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	NS	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dichlorophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dimethylphenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrophenol	NS	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Butanone (MEK)	NS	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	6.9 J	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Chlorophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	NS	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	NS	NS	NS	NS	NS	0.3 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Methylphenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2-Nitrophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	NS	2.6 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Bromophenyl phenyl ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Chlorophenyl phenyl ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)	NS	5 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acenaphthylene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Acetone	NS	5 U	10 U	5 U	10 U	5 U	5 U	5.5 JL1	134 M1	4.5 J	10 U	33.8 B	14.9	120	6.4 J	3.3 J	9.1 JB	4.1 J	35.8

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	23.9	895	3	1.2	9.7	14.7	23	1 U	1 U	1.3	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo[a]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NS	1 U	1 U	1 U	1 U	10.8	1.6	1.7	7.8	5 B	6.3	7.5	2.4	1.1	0.95 J	1.9	2.4	1 U	0.94 J
Butylbenzylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NS	1 U	1 U	1 U	1 U	5.7	1 U	3.2	1 U	2	1 U	3	1 U	1.5	3.3	1 U	1 U	1 U	0.98 J
Chrysene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.29 J	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	1 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	1 U	4.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene	NS	NS	NS	NS	NS	0.36 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	1 U	NS	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	1 B	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	*NS*	8.8	18.6	*2 U*	*2 U*	4.9	5.5	2.7	*2 U*	*2 U*	*2 U*	*2 U*	*2 U*	4.2	*2 U*	*2 U*	*2 U*	0.93 J	*2 U*
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*NS*	0.5 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*NS*	0.27 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	*1 U*	2.8	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Tetrachloroethene	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	*NS*	11.3	349	1.3	1.1	0.88 J	1.5	2.6	*1 U*	0.24 J	0.33 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,2-Dichloroethene	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*NS*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.33 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	*NS*	11.7	79.1	*1 U*	*3 U*	*1 U*	*1 U*	*1 U*	*1 U*	*3 U*	*3 U*	*3 U*	*1 U*	*1 U*	*3 U*	*3 U*	*3 U*	*3 U*	*3 U*

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO58-PZM001*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	0.46 J	0.5 J	0.78 J	0.46 J	*1 U*	0.4 J	0.39 J	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*5 U*	*25 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	16.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	5.1 J	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	45.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	16.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.5 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	*NS*	4.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	*NS*	25.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*NS*	64.2	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	3 J	*10 U*	19.9	*5 U*	56.2	3.8 J	3.2 J	8.3 JB	3.4 J	3.1 J

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	NS	2.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	265	851	241	220	195	231	270	247	272	276	316	187	256	238	98.7	185	41.4	195
Benzo[a]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	0.22 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NS	5 U	5 U	5 U	1 U	8.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	NS	5 U	5 U	5 U	1 U	1 U	0.37 J	1 U	1 U	0.26 J	1 U	1 U	0.42 J	1 U	0.55 J	1 U	1 U	1 U	1 U
Chloroethane	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	3.8	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.26 J	1 U
cis-1,3-Dichloropropene	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	13.1	11.8	11.5	11.1	11.2	11.7	14.3	13.8	14.7	11.3	13.4	5.9	12.4	11.8	5.4	9.1	2.4	9.2
Fluoranthene	NS	NS	NS	NS	NS	2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	NS	10.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	0.48 JL2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*NS*	9	6	8.1	*1 U*	1.1 B	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	*NS*	1,870	1,940	1,900	1,750	865	2,290	2,320	3,610	2,490	2,870	3,040 L1	1,420	1,980	2,310	572	1,540	681	2,140
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	1.5 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*NS*	11.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	*NS*	1.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*NS*	1.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*NS*	3.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	30	20	35.9	21.6	24.2	38	43.9	36.7	45.2	38.3	45.1	14.1	38.5	34.3	11.5	28.6	2.8	22.3
Tetrachloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	*NS*	80.4	318	94.7	68.2	56	85.6	108	93.2	138	128	146	63.3	106	93.9	34.5	59.9	13.3	41.5
trans-1,2-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.52 J	*1 U*
Trichlorofluoromethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	*NS*	202	220	214	190	182	201	239	218	245	199	249	102	213	207	83.5	155	42.4	149

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO59-PZP002*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*5 U*	*25 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	30.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	5.9 J	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	23.7	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	30.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*NS*	*25 U*	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	*NS*	3.1	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	*NS*	10.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*NS*	50.7	*50 U*	*25 U*	*10 U*	*5 U*	*5 U*	6.2 JL1	*5 U*	4.4 J	*10 U*	19	9.5 JL2	64.5	5.8 J	4.6 J	8.6 JB	4 J	30.4 R1

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	NS	1.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	348	97.2	377	106	389	3.6	62.4	9.5	1.2	255	393	1 U	1 U	144	1 U	1 U	0.61 J	17.5
Benzo[a]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	0.24 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NS	5 U	5 U	5 U	1 U	8.7	1 U	1 U	4.2	0.65 JB	5.5	1 U	1 U	1.7	1 U	1 U	1 U	1 U	0.65 J
Butylbenzylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	5 U	5 U	5 U	1 U	0.43 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	0.52 J	1 U	1 U	1 U	0.43 J	1 U	1 U	1 U	1 U
Chloroethane	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NS	5 U	5 U	5 U	1 U	4.8	1 U	1 U	1 U	1 U	1 U	1	1 U	1.4	1	1 U	1 U	1 U	0.78 J
Chrysene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	11.2	6	19.3	5.8	20.4	1.3	3.6	0.55 J	1 U	12.2	19.5	1 U	1 U	7.4	1 U	1 U	1 U	1.3
Fluoranthene	NS	NS	NS	NS	NS	0.86 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	NS	6.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	5 U	NS	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*NS*	7.7	*5 U*	6.8	*1 U*	1.2 B	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	*NS*	969	414	1,680	451	642	18.6	229	34.7	2	964 H1	4,720 L1	3.3	1.3 J	492	7.3	*2 U*	*2 U*	94.5
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*NS*	6.8	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	*NS*	13.6	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*NS*	0.51 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*NS*	15.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	10.4	*5 U*	21.2	4.3	19.5	*1 U*	3	*1 U*	*1 U*	7.6	22.8	*1 U*	*1 U*	2.1	*1 U*	*1 U*	*1 U*	0.63 J
Tetrachloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	*NS*	40.5	107	221	62.7	241	3.2	34.1	4.7	0.22 J	122	230	*1 U*	0.37 J	64.7	*1 U*	*1 U*	0.88 J	2.5
trans-1,2-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*NS*	*5 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	*NS*	172	89.8	335	92.4	321	12.4	56.4	7.4	*3 U*	199	325	*1 U*	2.9 J	116	*3 U*	*3 U*	3.4	12.6

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Location ID:	*CO60-PZP001*			*ug/L*															
1,1,1,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,1-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2,2-Tetrachloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1,2-Trichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,1-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2,3-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*2 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2,4-Trichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,2-Dibromo-3-chloropropane	*NS*	*5 U*	*25 U*	*5 U*	*25 U*	*5 U*	*5 U*	*1 U*	*5 U*	*25 U*	*5 U*	*5 U*	*1 U*	*1 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*
1,2-Dibromoethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloroethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,2-Dichloropropane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,3-Dichlorobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
1,4-Dichlorobenzene	*NS*	*5 U*	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
1,4-Dioxane	*NS*	*NS*	*500 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,5-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4,6-Trichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dichlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dimethylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	55.5	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,4-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2,6-Dinitrotoluene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Butanone (MEK)	*NS*	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*5 U*	*25 U*	*50 U*	*10 U*	*10 U*	*5 U*	5.1 J	3.8 J	*10 U*	*10 U*	*10 U*	*10 U*
2-Chloronaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Chlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Hexanone	*NS*	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*5 U*	*25 U*	*50 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
2-Methylnaphthalene	*NS*	*NS*	*NS*	*NS*	*NS*	62.3	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	55.4	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3,3'-Dichlorobenzidine	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4,6-Dinitro-2-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Bromophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chloro-3-methylphenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Chlorophenyl phenyl ether	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
4-Methyl-2-pentanone (MIBK)	*NS*	*25 U*	*50 U*	*25 U*	*50 U*	*25 U*	*25 U*	*5 U*	*25 U*	*50 U*	*10 U*	*10 U*	*5 U*	*5 U*	*10 U*	*10 U*	*10 U*	*10 U*	*10 U*
4-Nitrophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthene	*NS*	*NS*	*NS*	*NS*	*NS*	4.5	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acenaphthylene	*NS*	*NS*	*NS*	*NS*	*NS*	44.9	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Acetone	*NS*	32.3	76.1	*25 U*	*50 U*	*25 U*	*25 U*	8.2 JL1	*25 U*	27.1 J	*10 U*	23	9.7 JL2	84.9	38.7	7.9 J	13.3 B	8.9 J	6.5 J

U: Non-Detect, *NS: Not Sampled*

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Anthracene	NS	NS	NS	NS	NS	1.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benz[a]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzene	NS	434	479	361	500	467	186	371	189	189	28.3	151	133	260	310	166	400	172	218
Benzo[a]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[b]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[g,h,i]perylene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Benzo[k]fluoranthene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-chloroethoxy)methane	NS	NS	NS	NS	NS	2.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	0.26 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	3.1 JB	5.5	3	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Butylbenzylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Carbon disulfide	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	0.26 J	0.56 J	0.61 J	1 U	1 U	1 U	0.56 J
Chloroethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	2.6 J	0.49 J	1.7	1.8	1 U	0.32 J	1 U	1 U	1 U	1 U
Chloromethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1.8	1 U	1.1	1 U	1 U	1 U	1 U	1 U
Chrysene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	NS	5 U	NS	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	0.32 J	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenz[a,h]anthracene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	NS	5 U	5 U	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	NS	NS	5 U	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Diethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Dimethylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-ocytlphthalate	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	NS	12.8	13.1	13.1	11.5	14.3	8.5	14.1	6.1	5.6	0.79 J	3.7	2.4	7.1	8.7	3.1	8	7.2	7.8
Fluoranthene	NS	NS	NS	NS	NS	1.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Fluorene	NS	NS	NS	NS	NS	13.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobenzene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	NS	NS	NS	NS	NS	1 U	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Hexachloroethane	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Indeno[1,2,3-c,d]pyrene	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isophorone	NS	NS	NS	NS	NS	1 U	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	NS	NS	NS	NS	NS	NS	NS	0.4 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Methyl tert-butyl ether (MTBE)	NS	5 U	NS	5 U	5 U	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

U: Non-Detect, NS: Not Sampled

Parameter	5/1/2013	6/1/2014	9/1/2014	11/1/2014	3/1/2015	6/1/2015	9/1/2015	11/1/2015	6/1/2016	9/1/2016	12/1/2016	3/1/2017	6/1/2017	9/1/2017	12/1/2017	3/1/2018	6/1/2018	9/1/2018	12/1/2018
Methylene Chloride	*NS*	7.4	7.8	6.3	*5 U*	6.8 B	*5 U*	*1 U*	*5 U*	4.3 JB	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Naphthalene	*NS*	1,980	2,800	2,350	7,640	2,420	1,050	2,180	892	1,010	198	676	373	1000	2,020	446	1,620	1,700	2,470
Nitrobenzene	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pentachlorophenol	*NS*	*NS*	*NS*	*NS*	*NS*	*2.6 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenanthrene	*NS*	*NS*	*NS*	*NS*	*NS*	10	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Phenol	*NS*	*NS*	*NS*	*NS*	*NS*	21.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyrene	*NS*	*NS*	*NS*	*NS*	*NS*	0.87 J	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Pyridine	*NS*	*NS*	*NS*	*NS*	*NS*	10.2	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
Styrene	*NS*	44.8	44.4	50.2	74.2	47.2	23.1	60.9	16.2	11.1	1.4	16.4	3.4	17.6	45.6	15.9	63.6	14.3	35.2
Tetrachloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Toluene	*NS*	135	195	101	202	228	48.8	69.9	25.8	11.8	2.3	19.3	12.9	33.8	31	40.5	156	14.1	36.1
trans-1,2-Dichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
trans-1,3-Dichloropropene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Trichloroethene	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	0.64 J	*1 U*	*1 U*	*1 U*	*1 U*
Trichlorofluoromethane	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Vinyl chloride	*NS*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*5 U*	*1 U*	*5 U*	*5 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*	*1 U*
Xylenes	*NS*	245	287	280	270	290	153	278	123	96.8	16.7	73.9	47.3	140	176	63.1	183	148	167

U: Non-Detect, NS: Not Sampled